

INPUT METHODOLOGIES
ELECTRICITY TRANSMISSION WORKSHOP
3 MARCH 2010

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[8.32 am]

CHAIR: Good morning ladies and gentlemen. We'd like to welcome you to day 2 of the Commission's workshop on electricity transmission. For the benefit of the parties who were not at the workshop on the first day, I'm Anthony Merritt, Manager of Electricity and Gas for the Regulation branch of the Commission, and I'm Chair of this workshop.

With me are members of the Commission who will be making the decisions required to fulfil the Commission's responsibility under Part 4 of the Commerce Act. They are Commission Chair, Dr Mark Berry, Commissioner Sue Begg, Associate Commissioner David Caygill and Associate Commissioner Pat Duignan. Commissioner Peter Taylor will not be participating during the workshop, but will have access to the transcript to inform his deliberations for electricity transmission services.

Commission staff are also assisting during this workshop. With me are Alex Sim, Paul Melville and Bronwyn Ward. Bill Heaps of Strata Energy has joined the table and will be assisting the Commission today. A number of Commission staff are also on the adjoining table.

Turning to the procedure for this workshop I have just a few points that I made on the first day of the workshop that I wish to run through again for the benefits of the parties that did not attend yesterday. The workshop is intended to focus on areas where the Commission wants to test and deepen its understanding of issues relating to the regulation of Transpower.

1 The workshop is not an opportunity for parties to question the Commission. The
2 reason for this is that the Commission's thinking is still evolving and it is important that
3 the parties' views are expressed in the context of this continuing decision process.
4 However, during the process of the workshop various elements of the Commission's
5 Emerging Views will be being described more fully, and if for the purpose of discussion
6 it's necessary for participants to seek clarification regarding these matters such requests
7 for clarification are welcome.

8 The appropriate point for the Commission to set out its full reasons in response to
9 submissions is in the Draft Determination due for release in June 2010. There is then a
10 full submission round open to all parties at that time. In saying that, however, I hope that
11 the way that matters progress today provides an opportunity for some dialogue between
12 Commissioners, Commission staff and submitters. And I would like informality
13 advanced to the extent that it is possible.

14 While the workshop is focused on particular areas we wish to explore further, the
15 fact that we may not refer to other issues in our questioning does not mean that we have
16 reached a final view on any matter. The workshop is simply focussed on issues where the
17 Commission considers it will be assisted by further explanation and discussion.

18 Commission members are approaching all matters relating to its functions under
19 Part 4 with an open and independent mind, and I do stress we are in the evolving stage
20 right up to the point of writing the Draft Determination. And as I mentioned before we
21 fully take into account all submissions in response to our Draft Decisions.

22 While this workshop provides an opportunity for views to be discussed, we would
23 like to reiterate that the various rounds of written submissions remain the principal avenue
24 by which the Commission seeks and receives interested parties' views. Please recognise
25 the importance of the written material you present throughout the consultation process
26 and a need for your written submissions to set out your positions in a comprehensive way.

27 We appreciate that those representatives on the panel may not be able to answer
28 all questions posed. If necessary participants should feel free to defer to other
29 representatives that they may have in attendance either by joining the table if we have
30 some seats available or by use of the microphone at the back of the table.

31 I remind you that the workshop is not adversarial and no party will have the right
32 to ask questions of any party during the proceedings unless requested to do so by the
33 Commission. Our understanding is that all independent experts have signed the letter

1 confirming that they have read the code of conduct for expert witnesses in the High Court
2 Rules and agree to abide by these when speaking at the workshop.

3 As you'll see the workshop proceedings are being recorded. Microphones are
4 available at the tables for the speakers. We also have a microphone on a stand located
5 behind the participants' tables. Please speak into the microphone when making a
6 presentation or answering questions, and identify yourself and the organisation you are
7 representing. Please speak clearly and slowly so the stenographer does not have problems
8 with the transcript.

9 Transcripts of the workshops will be available so all parties are able to revisit the
10 discussions that took place at any time. Following the workshop, parties have the
11 opportunity to make further submissions. These submissions are due two weeks from the
12 date on which the workshop transcript is published on the Commission website.

13 The agenda is flexible and we may need to make changes as we progress.
14 Commissioners will not be available during the breaks. Tea and coffee will be available
15 during the morning and afternoon breaks. The workshop room is open during the breaks
16 but will not be secure during the day. If we have to evacuate the building please do so
17 through the doors down the stairs and we'll meet outside the hotel.

18 Any questions on procedure, agenda or any administrative matters please see Alex
19 Sim, the Commission's contact. I understand that parties have been asked whether there's
20 a need to discuss any confidential material in closed sessions today and that there is no
21 such need. If there is a differing view please let me know.

22 We don't have any spaces at the table but we have a number of new people here,
23 so - we have one space available so if anyone wants to join please do so. Since we have a
24 number of new people, for the record could you please identify yourself and who you
25 represent.

26 **MS PROCTER:** Siobhan Procter, Transpower.

27 **MR STRANGE:** Patrick Strange, Transpower.

28 **MR FLETCHER:** Richard Fletcher, Transpower.

29 **MR DEVINE:** Kieran Devine, Transpower.

30 **MR SIMPSON:** Bob Simpson, Transpower.

31 **MR SCOTT:** John Scott, Kema Consulting Limited.

32 **MS YORK:** Merryn York from Powerlink, Queensland.

33 **MR MATTHES:** Ralph Matthes from Major Electricity Users Group.

1 **MR WALL:** Ashley Wall, Genesis Energy.

2 **MR PARRY:** Ross Parry, Genesis Energy.

3 **CHAIR:** Thank you. Right, today's agenda is focused on matters relating to new investment
4 contracts which we deferred from yesterday and capital expenditure. So let's make a start.
5 I'd ask Bronwyn Ward of the Commission to lead the discussion on new investment
6 contracts. Bronwyn.

7

8 **REGULATED SERVICES - NEW INVESTMENT AGREEMENTS**

9

10 **MS WARD:** The Commission's preliminary view put out in June last year on new investment
11 contracts was that they are a regulated service, but that the Commission shouldn't
12 interpose itself between Transpower and its contract counterparties provided certain
13 conditions are met around workable competition.

14 The response to that in the submissions was mixed. Transpower indicated it didn't
15 consider new investment contracts to be a regulated service on the basis that they are only
16 a contract for the provision of assets, although the operating and maintenance costs
17 relating to those contracts are within the regulated costs. Other parties suggested that
18 there was some room for improvement in the process, negotiating process, but that they
19 didn't consider the revenues should be included in the maximum allowable revenue
20 provided the conditions around workable competition and so on were met.

21 What we wanted to start with here was a question for Transpower regarding
22 whether or not they consider new investment contracts contribute to the provision of a
23 regulated service, and from that go on just to look at some of the issues that have come up
24 around process and that sort of thing.

25 **MR FLETCHER:** Okay, thanks Bronwyn, can I take that? I think just to clarify, Bronwyn, I
26 think we do agree, I think maybe there was a little misinterpretation in the way that we
27 expressed it. We do believe that services under new investment agreements are regulated
28 services under the Act. Our point was made in relation to the fact that we believe that
29 they should be excluded from the price quality path, as the Commission believes, and also
30 the information disclosure framework, subject to the counterparties of the agreements
31 with Transpower agreeing in writing that the terms and the conditions are reasonable etc,
32 as is the current requirement.

33 So I thought what the best way to do is to take each of the Commission's

1 observations in terms of process and areas where they thought there may be potential for
2 additional regulatory oversight and just talk through each of those on a couple of slides
3 and perhaps if you could put the first slide up.

4 I think just as a general comment before I start, last year we undertook quite a
5 comprehensive bit of consultation with our customers on how we could improve the new
6 investment agreement and the contract and the process itself and that resulted, towards the
7 end of 2009, in a revised - a new new investment agreement, which we need to think of a
8 snappier name for I think. But that actually I think addresses - I'll go through this, I think
9 you'll see that this addresses most of the concerns of the Commission and perhaps we can
10 discuss that after or not once I've been through it.

11 So if I take each of them in turn. One of the concerns of the Commission was
12 trying to understand what the controls on cost overruns and what penalties there were for
13 late delivery, so what tensions there were on Transpower under these contracts in those
14 two areas. The revised investment agreement has introduced a flexible range of charging
15 options. For example, a fixed price option is available, cost overrun reporting and
16 mitigation plans are a part of the requirement for us to report to customers. So if there's a
17 fixed price it's a fixed price and if there's an overrun that's at Transpower's risk.

18 There are customer termination options if they choose that option, and that will
19 kick in after a variance, if we go over the budget by over 5 percent for example. And
20 there are revised liquidated damage provisions for delays. So I think perhaps what I need
21 to do is forward a copy of this to the Commission with some background information that
22 was part of our submission and I'll do that certainly.

23 The second point was the option for the customers to opt for provisions of the
24 default transmission agreements. The revised NIA aligns more closely with the default
25 provisions of the default transmission agreements. It cross-references the same liability
26 provisions, force majeure, asset information requirements on Transpower to provide to
27 the Commission and service level provisions. So I think there is very close alignment
28 between the two contracts.

29 The new investment agreement, one of the concerns was what WACC Transpower
30 used to calculate charges in the new investment agreements and the new agreement
31 requires us to use the regulated WACC which will be determined through the input
32 methodology process.

33 Perhaps if we could just move on to the next slide please. This is more general

1 comment from the Commission around assurances around targeted least costs, planning
2 and delivery, and the commercial information which is available to customers throughout
3 the process.

4 As part of the process there a number of colleagues in the audience who are
5 involved in this process on a day-to-day basis who can provide more details if required.
6 We do sit down with the customers as part of the process, understand their requirements
7 in detail, and then we produce a formal high level options report for the customer, which
8 is then followed by a solution study report which looks at the options in the same way as
9 we do internally for our own capital project, non-customer related projects.

10 I should make the point, because we'll probably come on to this later when we
11 start talking about the capital approvals process, it's exactly the same internal planning,
12 procurement, delivery, process which we apply to customer projects as we do to
13 non-customer projects, and our internal processes are subject to the least cost challenge
14 by the Commission as part of its regulation of our other capex.

15 The final point was about the degree of current regulatory oversight by the EC
16 being specifically focused on quality and not price. I just put a few points down here, just
17 to note that NIAs must comply with the grid reliability standards, and most of the assets
18 under these contracts are connection assets and typically they're non-core grid.

19 So in that respect they need to comply with the grid reliability standards and the
20 investments must be economic, i.e. justified by a grid investment test. So we do apply a
21 grid investment test to these projects. Siobhan can perhaps add to that if necessary.

22 And then if as a result of the new asset or the new investment there's going to be
23 an increase of reliability above the GRS then there's a process under the EGRs we need to
24 certify to the Electricity Commission, and presumably in future the Electricity Authority,
25 that all end-users have been consulted, all affected end-users have been consulted
26 appropriately. And if there's a decrease resulting from the new investment agreement
27 below the GRS then the EC must satisfy itself that there's no material impacts on
28 designated transmission customers.

29 So there's a degree of oversight there in terms of the option and the impact of that
30 option, and the contract itself, I think, addresses most of the Commission's concern.

31 **MS WARD:** Okay, from there I guess we can move on to comments from other parties as to
32 their views on the new investment contracts, whether or not they think the process would
33 benefit from maybe the type of framework they have in Australia, things like, you know,

1 having a set negotiation framework, arbitration arrangements and those sorts of things.
2 Does anyone have any comments on that?

3 **MR MATTHES:** Ralph Matthes, Major Electricity Users Group. It's good to hear that the new
4 investment contract has been finalised. We've been asking to see a copy of the final for
5 some months. We were involved in the negotiations at the end of 2008. There were then
6 two written submission rounds in February and April 2009 and we've been waiting since
7 that date to find out the outcome.

8 Most of what's been presented here isn't a surprise to me, that's where I thought
9 we'd got to in April 2009. It's a big improvement over the previous new investment
10 agreement. It certainly does give more options to the counterparties looking at either a
11 fixed contract or some sort of other flexible arrangement.

12 The main concern that I recall we had at that stage was the use of the Transpower
13 regulated WACC. I think in the Commission's summary of Transpower's comments on
14 this it talks about basically the arrangements being like a finance deal, and to me that sort
15 of tracked a different cost of capital than the regulated WACC.

16 Just to give you another example, we were discussing this with Transpower a year
17 ago, they were using the regulated WACC as at 2008 and the risk-free rate at that stage
18 was very very high. We argue that if someone entered into a new investment agreement
19 in 2009 when the risk-free rate had collapsed then the WACC should use the new
20 risk-free rate, not the prior one. So those issues are still sort of lurking around.

21 I think that just raises the question that at the end of the day Transpower does
22 dictate the terms of these contracts and I'd be very interested in some sort of approach to
23 mediation or arbitration to find a solution where there's an impasse in reaching agreement
24 on things like cost of capital.

25 **CHAIR:** Do Commissioners have any questions? [**No comments**]

26 **MR SALMON:** Hello, Greg Salmon from Meridian Energy. Just a general comment is the
27 initiatives that Transpower have put in place for the new investment agreement are a good
28 step forward. The key to it, though, is that it needs to become a competitive process and
29 setting up the contract sets up a type of contract that essentially could be competitive in
30 the open market. And the next step is to look towards making the process more
31 contestable with other potential providers basically submitting as well for the work.

32 The other thing is that Meridian has been involved in dealing with interconnection
33 assets and there's additional complexities around how that could be made competitive as

1 well.

2 **MS WARD:** Do you think maybe you'd want to look at a different kind of process for different
3 kinds of new investment contracts? I understand that some of the types of new
4 investments are competitive, or there are multiple parties offering those, but for other
5 services which involve Transpower substations I think are less contestable.

6 **MR SALMON:** Yeah, I mean our view is that the construction work now, we're moving
7 towards where I think there is a certain amount of competitive potential there. But with
8 regard to the next step of the ownership and operation, that's another question as well that
9 I think kind of needs to be thought about as well, in that as far as I understand there's no
10 reason why there can't be other participants owning and operating even interconnected
11 grids.

12 **MR HEAPS:** Greg, I was wondering, could you maybe just give us a summary of what you
13 consider the current barriers are, why that isn't happening at the moment?

14 **MR SALMON:** Well to be fair the problem with the interconnected grid is that the processes
15 haven't really been challenged yet and, well, we've asked questions with regard to this and
16 we're still working through a process but we'd like to be clear on what the options are.
17 I'm not sure where Transpower sits on this officially, that's something that I'd be quite
18 interested to hear.

19 **CHAIR:** Transpower, do you have any comments on that?

20 **MR STRANGE:** I think it will require - we'll take it all on board and probably submit. Just
21 having been on both sides of the process from lines companies etc, and we can sit here as
22 economists and talk about competition; when you actually get down to the details you're
23 often talking about a transformer going in somewhere to match three other transformers,
24 and we're actually running a fleet. And I mean when you go to a lines company, and the
25 price pressure on Transpower when we used to do it was very high. And they all wanted
26 a custom one and, you know, one that was just 52 MVA and a certain fault rating because
27 that was the cheapest solution to them.

28 But we're actually running a fleet and running spares against disasters and all sorts
29 of things, and we're actually working very closely with them now to say well no - because
30 we have to stand behind that transformer, it's not actually a finance deal when you think
31 through the details.

32 So we can sit here and talk about the theoretics of a lot of these NIAs that open to
33 competition and anybody should own. And in principle, you know, we're happy with

1 that, but you've got to realise that 99 out of 100 of them aren't like that, they're actually
2 equipment provided as part of a fleet and there's huge value with providing a sort of
3 standard fleet with interchangeability, and that's part of the service that the lines
4 companies usually get out of the new investment contracts.

5 So we will reply in writing, but it's not quite as simple as we stand up here and
6 say. And having been on both sides of it the price tension, I mean it's all open, the work's
7 all bid outside etc. I actually think we've made some good improvements but from both
8 lines companies and transmission company's point of view it's a pretty effective process.
9 I'd be pretty reluctant to see what's basically working get another layer of regulatory
10 intervention. But we will respond.

11 **MS WARD:** Do the other parties want to comment on whether or not the revenue should be
12 included or excluded in the maximum allowable revenue?

13 **MR MATTHES:** We agree with Transpower that it should be regulated, but in terms of the
14 maximum allowable revenue should be excluded.

15 16 **CAPITAL EXPENDITURE CATEGORIES** 17

18 **CHAIR:** Okay, is there any more questions or comments? Right, thank you. The rest of the day
19 we're going to be focused on capital expenditure. You'll note from the agenda that we
20 have three statements first up and Commissioners and Commission staff may take the
21 opportunity to ask questions of the presenters after each statement.

22 For the rest of the workshop the process will generally be that Bill Heaps of Strata
23 will make presentations on the various components of the Commission's proposed
24 approach on capital expenditure. Then either Commissioners, Commission staff or Bill
25 will lead a discussion after each presentation.

26 Before we start, participants should know that Cabinet has agreed to a number of
27 changes to the governance of the electricity market. These changes included the role of
28 the Electricity Commission in approving Transpower grid upgrade proposals being
29 transferred to the Commerce Commission from 1 October this year, and the Commerce
30 Commission setting an input methodology for Transpower's grid upgrade plans and
31 capital expenditure proposals by 1 October 2011.

32 While this workshop does not deal with the transfer of responsibilities directly, the
33 Commission will ensure that any points made that relate to the Commission's role in the

1 transfer of responsibilities will be considered by the Commission going forward.

2 Right, can I now ask for Kieran Devine to make a statement on behalf of
3 Transpower.

4 **MR DEVINE:** Yes, good morning, I'd like to introduce myself. Kieran Devine from
5 Transpower. I'm currently the General Manager System Operations, although as of 5
6 o'clock last Friday night I was seconded as the General Manager of Grid Performance
7 responsible for about 80 percent of the expenditure that we're going to discuss today,
8 excluding effectively the large projects.

9 I'd like to basically outline in a little bit of detail where we've come from and
10 where in this particular area we expect to be by the time that the regulations that we're
11 talking about will take effect. I apologise that I only have paper copies and I'll just wait
12 until everybody gets one because I modified it last night using a later version of the
13 software which has thrown the technology into a bit of a spin.

14 If we could move to the second slide headed grid expenditure. This is a very high
15 level summary of the grid expenditure in the capex over the last effectively four, four and
16 a half years. We start in 2007 with down the left-hand side non-Part F with both the
17 approved and then the actual, and then we've listed what is in essence the unplanned
18 expenditure that occurred in the year which actually is a part of the actual.

19 So if we take 2007, actual is \$50 million, unplanned 8, so the actual planned part
20 was 42. As you can see in this area we are at the present time relatively highly variable.
21 So we were 6 under-expenditure for 07/08, we're of the order of 27 under for 08/09 and
22 we're of the order of 14 above for 09/10. Interesting enough if you add them all up across
23 the three years we're almost exactly, I think it was 98 percent expenditure, but on an
24 individual year basis we show quite a lot of variability.

25 A large part of the reason for that is that the bottom line, the Part F project, and
26 you can see that we're ramping up our major project expenditure quite rapidly; we expect
27 in the 11/12 year to be at \$700 million roughly. So in the 07/08 year we were relatively
28 under-spent. Again a little less in the 08/09 on the Part F. We expect to be relatively
29 close this year within a couple of percent.

30 I have stood in this job previously, or a similar job previously and I went back to
31 my old records. I was there for three end of year periods. And interesting enough the
32 capital and opex in those years were very tightly controlled and we were within a
33 few percent across all those three years.

1 What I'd like to do is just briefly outline what we're doing to get back to that very
2 tight planning control. So basically we've had a relatively bottom-up process, relatively
3 reactive process over the previous years as we've gone through the development of a
4 major re-investment programme having not substantially invested for the best part of 15
5 years.

6 So we've introduced a whole series of management structures over the last 12
7 months, mainly over the last nine to six months. We've introduced some quite extensive
8 asset management strategies and I've listed some of those there. About half those are
9 actually completed and signed off, the other half are in late stages of either development
10 or are awaiting final signature.

11 We've substantially improved our project management structures and that, I think,
12 in the performance that we expect this year in our Part F proposals there's indication that
13 that's starting to take hold and deliver results. We've substantially upgraded our
14 procurement processes and that is also showing rewards at the moment. To ensure that
15 we don't lose track of this we've introduced a standardised cost estimation system that
16 provides both quite a lot of standardised pricing but also forward projection. It allows us
17 better estimations of future work that we may be undertaking.

18 We have a major integrated planning initiative and this is to correct the relatively
19 piecemeal bottom-up processes that were adequate in earlier years but clearly not
20 adequate nowadays, and it's reasonably early stages although it's starting to show some
21 results. We expect this over the next 12 months to actually really take hold and make
22 quite a reasonably substantive difference.

23 We've added a decidedly more formalised ability to capture the lessons that we're
24 learning as we go through this change process, and that's proving quite effective
25 particularly in bringing in a broader number of people into the processes that we're
26 changing, and that's able to allow us to capture stuff reasonably quickly and distribute it
27 amongst a broader range of our staff as we go forward.

28 The last one is, I think, quite important in that we've broadened the range of the
29 challenge that project approval processes go through. And if you look at the expenditures
30 for the actual forecast, non-Part F stuff for the forthcoming years 10/11 and 11/12 you'll
31 see quite a big discrepancy. That is about to go through a fairly substantive review
32 because clearly that discrepancy is in a management sense less than appropriate. So these
33 additional challenge and approval processes should actually improve our performance

1 over time.

2 The reason for outlining this material is that the regulations that we're discussing
3 today are to come into effect effectively in two years time, and we would particularly ask
4 in the decision-making process in setting those regulations that the trend of improvement
5 that we're showing and we're indicating that our management practises are in place to
6 improve, that the regulations are set on where we expect to be in two years not with some
7 historical snapshot in time where we have been. So with that I will close and ask for
8 questions.

9 **CHAIR:** Do Commissioners have any questions at this stage?

10 **MS BEGG:** Yeah, just the variance from forecasts, that's a year ahead forecast is it, that's what
11 it's been in the past? Obviously we'll be moving to a longer period of forecasting. I just
12 wondered, these improvement activities, to what extent you think they're going to address
13 more than the year ahead issues.

14 **MR DEVINE:** No, they're specifically designed to deal with the three year process that we're
15 moving into, that's the whole plan, thrust of the idea, yes.

16 **CHAIR:** Do Commission staff have any questions at this stage? Bill.

17 **MR HEAPS:** Could I just ask, looking at your slide 2 on the unplanned, obviously we're seeing
18 a change from 8, 50 and 20 percent, but noting that we're actually changing from an
19 under-spend to an over-spend, forecast over-spend position. It's still changing going up 8,
20 15, 20 percent, so that sort of shows more unplanned projects coming in. I just wonder if
21 you could give us the main reasons that you see it for that shift, what's driving that?

22 **MR DEVINE:** First of all they're not percentages, Bill, they're dollars.

23 **MR HEAPS:** They are dollars, okay.

24 **MR DEVINE:** The note on the bottom hopefully -

25 **MR HEAPS:** I worked out the percentages underneath, so it is more, it's actually 16, yeah.

26 **MR DEVINE:** One of the principal reasons that, and noting that I stand half a step back from
27 this at the moment, is that a lot of the project activity, major project activity work is
28 turning up a lot of unexpected outcomes. And perhaps I can give a good example at the
29 moment that we're having to deal with, is that we're replacing some towers in Lake
30 Karapiro as part of the rowing world cup approvals. We had a relatively, with hindsight,
31 interesting investigation of the underground foundations for those towers in the lake.

32 When we've actually gone in and looked seriously at the work we're looking at
33 probably four to five times increase in cost from effectively what was to be a relatively

1 minor piece of work into what is going to be a reasonably large major capital piece of
2 work. So we're finding a lot of material that perhaps has been hidden in the past and
3 we're having to deal with in essence reaction to a lot of this work.

4 We actually have the numbers, which I don't have in front of me, but the numbers
5 of those projects are quite large. If I remember correctly there's 250, 300 projects. But
6 they're actually in themselves quite minor, collectively add up to reasonable sums of
7 money, but they tend to be in reaction to stuff we're finding as we go through and do other
8 work. Which is quite normal in this business, it hasn't changed in our working careers.

9 **MR HEAPS:** So would you say that one of the major benefits of the improvements that you
10 went through on the third slide is going to be improvement in planning accuracy and
11 maybe lowering of unplanned work?

12 **MR DEVINE:** That's the objective is to plan ahead, have a good understanding of both the
13 dollars and the resources required, and be able to control it far better than we've done in
14 the past. There's no question that's the whole thrust of the work that's been put in place
15 today by, in essence, my predecessors. And that's what we ask, is that when the
16 regulations are set they're set on where we expect to be, and that's obviously a value
17 judgment people will have to make. But we'd find it very inefficient if the regulations
18 were set on some snapshot of the past where we know we're not acting or performing as
19 well as we can.

20 **CHAIR:** No more questions? **[No comments]** Thank you. Can I call on John Scott to make a
21 statement from Kema.

22 **MR SCOTT:** Good morning, thank you very much and thank you for a few days away from the
23 British winter as well. Just by way of introduction, I'd like to offer, if I may, a kind of
24 high level perspective. I haven't come along with a kind of quantified analysis for
25 optimum regulation, but I would like to offer, if I can, a perspective having worn different
26 hats over the last 20 years both as a Regulator and within a network company.

27 The first slide, just to set the scene, shows my background. I'm currently with a
28 consulting company, Kema, Dutch consultancy, very much involved with forward
29 strategies for networks; smart grids and smart metering and so on, and that's both in
30 Europe and into America. I had six years with Ofgem, the British Gas and Electricity
31 Regulator, as their Technical Director. But before that my career was as a kind of wires
32 person in the lines companies and the transmission company national grid where I was
33 Director of Engineering and also Manager of the National Control Centre for a while.

1 And before stepping into the slides it just struck me that the issues you're
2 grappling with here are really fundamental to your national infrastructure and it stretches
3 a lot further than Transpower. This is about kind of New Zealand well-being and such
4 things as inward investment. So it's kind of very important, I believe, to take the longer
5 term view rather than purely trying to optimise a short-term position.

6 So if I may go on to the first slide. Bear with me, they're very simple comments
7 but, you know, I think the overarching goal of a regulatory framework is at the end of the
8 day best value for customers. You can embellish that in different ways but it's best value
9 for customers, they're going to pay for the investment.

10 But for looking into both the short-term and the long-term and with assets that last
11 perhaps 40, 50 or 60 years, long-term is really quite a problem for this sector. This is an
12 issue that we see internationally. So there's a need to try, of course, to find stable
13 regulatory processes, otherwise there is always hesitation with investment which we're
14 struggling with in the UK at the moment.

15 So with a stable framework new investment is encouraged, companies should be
16 rewarded for good decision-making, especially where there's uncertainty, and a desire to
17 minimise regulatory cost and indeed regulatory risk. And this is something that Ofgem
18 has grappled with and looked to restructure itself from time to time, because it's always
19 easy to accumulate more responsibilities, in my observation as a Regulator, and a need to
20 continually be moving things on if possible.

21 So there isn't a simple formula, the bottom bullet point there's no easy set of
22 requirements, but important to be alert to the risks and the changes appearing in the
23 sector. And I would like to touch on that, if I may, about what I'm seeing internationally
24 and what I expect you will find as the kind of challenges for New Zealand as well.

25 The third slide is a national grid view that I'd like to bring if I may. The national
26 grid network has many similarities to yourselves, heavily loaded, a growing need for
27 investment, and that investment is both for renewal of assets and changing demands, and
28 that's not only load growth but a change of generation types and patterns causing
29 additional flows, and in some cases very demanding variability of flows, for example,
30 with wind and tidal generation sources appearing.

31 So the challenge for the transmission companies, I think, is to plan and renew
32 assets ahead of failure, whereas in simplistic terms I think distribution companies could
33 very often have a credible strategy which is replace on failure. And that's quite difficult

1 because an asset that's 30 or 40 years old, it doesn't have a meter on the side saying how
2 much life is left in it. And this is an area of increasing sophistication in asset
3 management to anticipate and change assets in a timely way.

4 Clearly good asset management in all its forms is a whole professional discipline
5 in its own right internationally at the moment and good planning goes without saying.
6 But of course plans are only plans, inevitably imperfect, and I think it's a fair statement, if
7 the planners in the room will bear with me, to say that the job of a planner is to minimise
8 how wrong they are, and that is the nature of complex industrial systems.

9 My last point on that slide is to try and recognise why these changes arise, why
10 planning is not perfect. And that is, changes arise from what you might call known
11 unknowns and unknown unknowns. And known unknowns cover matters such as we
12 know the weather is critical for outdoor work and that's hard to plan for.

13 But on the other hand you get unknown unknowns, perhaps rather like the one
14 Kieran mentioned where something is discovered when you arrive on site. And I
15 remember a major programme of work in national grid, on day one work started in the
16 substation and it was found that the roof was full of asbestos, you know, everything
17 changes, all plans off until the work is rephased.

18 Just moving, if I may, to my time in Ofgem. I think Ofgem in broad terms really
19 tries to focus on company outputs rather than inputs, and they've developed further in that
20 way in the last two or three years since I left with their recent distribution company price
21 control. And what it's trying to do, and this will be very familiar, I'm sure, to the
22 regulatory parties here, is trying to get the regulated companies to take the decisions
23 rather than be in a position where the decisions come back to the Regulator.

24 And the reasons for that I've put on the slide, the first is that at the end of the day
25 there is a huge information asymmetry. The Regulator is both disadvantaged but also in
26 the position of simply not having the best information. The company is the body that's at
27 the coal face, as it were, and should be in the best position to make the trade-offs and the
28 decisions.

29 But the reason for not wanting to go in the other direction is that if the decisions
30 come back to the Regulator, what is really happening is that the risks are then being taken
31 or managed by the Regulator. And again I can give you an example. I recall from my
32 time at Ofgem where one of the distribution companies found that a very common piece
33 of their equipment, 11 kV I think, a distribution company had developed a catastrophic

1 failure mode and regrettably it caused a fatality.

2 So they wanted to go ahead with an urgent programme of changing all these
3 circuit breakers which was probably the right management decision, however, that wasn't
4 in their agreed price control allowance. And they came back to the Regulator and said
5 "what don't you want us to do?" Of the previous agreed work. Not that it was agreed
6 item by item but there was a package of work. And the answer really was "company, you
7 are in the same position as any commercial organisation, you know, you can't suddenly
8 create new income because you've got a new problem and please go back and look at your
9 risks, rephrase your work and balance out the risks, the old risks and the new risks".

10 In other words getting the companies to be accountable, to use their funding in the
11 best way and not look to the Regulator, as it were, to make the difficult decisions. And
12 the effect of doing that is on the last sub-bullet point there, which is I believe companies
13 being much more proactive, lets the companies think through their solutions.

14 But I should, before I move on from there, say that Ofgem very much are realists,
15 they know that there are perverse incentives at work here. There's the possibility of
16 gaming structures and systems. And the main safety net on behalf of customers for
17 Ofgem is retrospective review, is probing what has been done, how good the rationale is,
18 the kind of audit trail, good asset management decisions. And if Ofgem isn't convinced it
19 will either claw back or adjust boundaries and glide paths in the future.

20 Those mechanisms are there and Ofgem tends to use specialist consultants at each
21 price reset time to skim across a whole range of work and drill down into a limited subset
22 of the activities undertaken into the period and that's over five years worth of work.

23 Okay, some observations, if I may, from the UK, recent activities taking place.
24 We now see extremely large projects coming through beyond the traditional sort of scale
25 of projects that has existed for the last even 10 or 15 years where I think many sectors
26 around the world have been in a kind of incremental development phase. There hasn't
27 been a lot of change on grids.

28 But now that incremental investment is giving way to a new scale of challenges,
29 but more than just a new scale, a need for fresh thinking, okay. There are new challenges
30 which the old solutions will not be very effective at meeting. And because there are new
31 challenges out there the manufacturers and the technologists are bringing forward new
32 technologies, new techniques, so that the world ahead is one of increasing investment but
33 also technical challenge, risk management for innovation, and of course at times

1 commercial challenge and innovation needed as well.

2 Just to note that in the UK over the last six years now Ofgem has focused on
3 encouraging effective innovation in regulated companies and has put in place specific
4 innovation incentives, and in the last regulatory reset they've built on that and extended
5 them in a number of ways, and they do leave the companies to make the decision on
6 where sort of research and development funding should go, or where innovative projects
7 should go, but they require transparency of that activity and a kind of self-regulating
8 process.

9 And lastly, I think it's important to seek this position where the Regulator is trying
10 to transfer responsibilities to the companies, especially once things start becoming well
11 established. And the reason for that is the agenda is just taking off all the time and, in my
12 view, it's much more important that the Regulator should be looking at the new strategic
13 challenges than fine-tuning yesterday's problems to a very very fine degree.

14 And those kind of challenges I've put at the bottom of the slide here. I think they
15 probably apply to yourselves to one degree or another. But low carbon economy, electric
16 vehicles perhaps the big game change for our sector globally, variable power sources,
17 off-shore regimes in the UK, microgeneration at household level, home automation, smart
18 metering, demand management, climate mitigation and so on.

19 And I haven't put it on the slide but if I might make an observation having been
20 involved with New Zealand over the last few years, I believe you have the additional
21 factor of a very highly loaded grid. And as I look at different companies in situations
22 around the world I'd put you in the top category of highly loaded grid systems. I would
23 say from my operational background you're as close as anybody to safe operating limits
24 off the grid, and this leads me, you know, if I take a longer term kind of perspective of
25 really suggesting that it's really important to minimise the investment delays and to try
26 and maximise management focus on the grid network.

27 The challenging corollary, though, is that it's the observation in many companies
28 that as you go into a time of investment, actually the risks go up before they go down and
29 that's because you're taking the equipment out of service for quite lengthy periods, that
30 puts extra stress on the remaining assets. And you're moving contractors on to site, you're
31 bringing in cranes, you're doing work which in itself brings hazards and big incidents
32 around the world have often been triggered by unfortunately those kind of combination of
33 circumstances. So it's a demanding time I think you're facing.

1 So in summary I think companies should be required to be flexible and
2 responsive. They should be required to take the responsibility, to manage the risks and to
3 be accountable for their decisions. Companies make mistakes, if I may say so, as a
4 previous Regulator. Regulators from time to time make mistakes. But the important
5 thing is not absolutely right first time, but processes which will lead to continuous
6 improvement, and that way the customers benefit over a period of time.

7 The companies will also need to find new solutions to new challenges, and I'd be
8 very cautious about companies taking yesterday's solutions and trying to apply them to
9 tomorrow's challenges which we are seeing happening in some companies. I don't refer
10 to Transpower.

11 The Regulator in turn, I think, has obligations here to encourage good planning in
12 the companies, to expect deviations from the plans. And I would be very suspicious
13 myself if there was a lack of deviation from the plan. I think if the plan isn't being
14 re-optimised I would be cautious of a company that's on a kind of tram line mentality in
15 its processes. But very important that the Regulator probes out-turns and applies
16 re-alignments if necessary.

17 My last comment there is that I believe that prescriptive positions, prescriptive
18 rules I'd say always result in unintended consequences. And it's another discussion, but in
19 the UK at the moment this has just writ large over our health service and our schools
20 where the managers of those service providers are optimising the rules, they are, you
21 know, they're in a tick box world where they're optimising the rules, not optimising the
22 content.

23 So specifically if I might suggest this, I think we can see from the UK that there's
24 much more to be gained than lost for customers by empowering companies, focusing on
25 outputs. It requires an accurate capex planning and reoptimisation where there are
26 justifiable changes. Important, I believe, to set thresholds high enough not to undermine
27 the companies. If the thresholds for regulatory scrutiny are too low, of course, the
28 companies will simply say well we've crossed the threshold, this is to the Regulator now
29 to review and fully evaluate. Whereas I think those decisions should sit squarely with the
30 board who should be accountable for that.

31 And important to probe the outputs, transparency, challenging any inefficiencies,
32 but also set an expectation for innovation. And in that world of tram lines and tick boxes,
33 one of the things that you can usually see suffering is that the old solutions are rolled out,

1 they're the lowest risks, they've been approved before, we'll do it the way we used to do it,
2 which there's a lot of evidence now to show that that won't be a good long-term solution I
3 believe.

4 So I've tried to capture this in a sentence. I think that without empowerment of the
5 companies there will be poor responses to the new challenges. Unintended consequences
6 will abound. That it's very important to align decision-making; aligning decision-making
7 to the companies is the strategy that will bring real benefits to customers in a time of
8 rising investment. But of course all of this put in place with, as I've said there, kind of
9 regulatory eyes open. And I think that's very important to be able to challenge.

10 I should say, of course, what I would see as a situation without empowerment, I
11 think without empowerment of a company, that that kind of consequence of undermining
12 the company, which is a strong phrase, but nevertheless it leads to that focus on process
13 rather than content, it creates kind of a dependency culture looking back to the Regulator
14 all the time. And the outcome of that is things like good staff start to leave, it's very hard
15 to recruit and retain good people at board level, and you clearly get into a world of
16 avoiding risk rather than managing risk and suppressing innovation because it's uncertain.
17 That's the kind of consequences I've seen elsewhere.

18 So thank you for bearing with me, and my last message on the bottom of the slide
19 there I put it in red, hold the board members to account. Thank you.

20 **CHAIR:** Do Commissioners have any questions?

21 **MS BEGG:** I first of all had a question of clarification. In a couple of the slides you have said
22 that we should focus on outputs rather than inputs, and given the discussions in terms of
23 capital expenditure I just wanted to check by outputs did you mean transmission services
24 and the quality of which they're provided, or have you got a more constrained view of
25 outputs which is the investment programme?

26 **MR SCOTT:** I think, I envisage trying to capture those things that are important to customers.

27 **MS BEGG:** So transmission services and quality?

28 **MR SCOTT:** Yeah. Yesterday, if I may say so, I thought it was a very constructive discussion
29 about quality of supply, that's a very good output. It tends to work better for distribution
30 companies than transmission, but it's important to grapple with it for transmission as well.

31 But there's an interesting development you may have seen that's gone on in the
32 last year or two in the UK which is trying to quantify outputs more precisely in terms of
33 asset management. And Ofgem has now agreed with its companies, this is for

1 distribution but it will be applied in due course to transmission, measures of asset health,
2 for example, by categories, you know, if you like, what proportion of the towers are rusty
3 at a simple level, or more subtly output measures about the degree of utilisation of assets.
4 So how much capacity margin, how much redundancy is still in the system. And of
5 course, as you know, that's assortive. As demand grows you get nearer and nearer your
6 limit, then you reinforce, you create more headroom and then you eat up that headroom
7 again.

8 And what Ofgem has done is tried to take that forward into understanding the risk;
9 hard to quantify, but at least over a number of parameters, a kind of basket of risks. And
10 what they've said is that companies' money is being spent to invest on the networks but
11 it's not being invested to eliminate risk. They recognise that all networks carry risk.

12 And what they're asking the companies to do is to identify the kind of risk level,
13 degree of redundancy and age of assets and so on, at the beginning of the period and at
14 the end of the five years, as it is in the UK, to show that that investment hasn't kind of
15 removed all the risk, that would be an over-investment, but have managed to keep the risk
16 at about the same level, different risks. But the risks haven't accelerated, but they haven't
17 also been totally removed. And it's that management level of trying to pitch risk. It's
18 hard to quantify, but I think there'll be a lot further work done in that area. So it's a range
19 of outputs.

20 **MS BEGG:** If you looked at the outputs and they raised concerns, for example we've heard from
21 Transpower how in the past there's been perhaps under-investment in the grid and in
22 maintenance there's a lot of catch up to do, would that shift your focus from the outputs to
23 also looking at inputs? Because when we hear from Transpower we hear that they are
24 undertaking major projects to catch up with maintenance and so on, so how does your
25 balance change if you're dissatisfied with the outputs?

26 **MR SCOTT:** I think that's an example of the really tough questions that a board of a utility
27 company should grapple with. Do you continue putting a lot of money into
28 refurbishment, extending the life of old assets, do you take the plunge to move to new
29 assets, particularly recognising that over the next life of those asset, next 20 to 40 years,
30 the demands on them will change considerably.

31 And to give just one example there, there's work going on at the moment that I've
32 seen recently in the UK on the impact of electric vehicles. And we're going to be faced, I
33 think this is around the world, faced with either a massive traditional replacement, much

1 more copper in the ground, as they say, to meet the charging load of electric vehicles, or
2 in the world of smart grids, as it's being called, you start to look at intelligent ways of
3 charging vehicles and spreading the charging load.

4 All that makes sense because you don't need so many additional assets, but you
5 change the loading on the assets, everything that the companies at the moment know as
6 cyclic loading. In other words the assets are all operated at the moment around the world
7 to have an overnight rest period. You load them up during the day, they get very hot, but
8 you give them a cooling off period over the night and that happens again the next day. If
9 there's electric vehicle charging taking place all night these assets are going to be cooked
10 around the clock. And it's already changing the views of asset management.

11 Sorry, I haven't given you a very clear answer to your question. I say this is where
12 we should be looking to our asset owners and the companies and say well how are your
13 asset policies changing and are you investing to meet that kind of demand and not putting
14 in an asset, for example, that's really only sized on a very peaky cyclic rating.

15 **MS BEGG:** Just going back to my question which is more what's the role of the Regulator in
16 that process? I can understand your response that the board has difficult decisions to
17 make where the outputs aren't satisfactory and it's obvious that Transpower's board is
18 trying to address that issue, but what's the role of the Regulator when it's not simple, or
19 when the monitoring of the outputs indicates that there might be issues?

20 **MR SCOTT:** I think there's the important role of the Regulator here to challenge the companies
21 to show that they've thought through the issues, you know. So this should be asset
22 management in a dynamic sense, in the sense that asset strategic policies should be being
23 thought through, they should be recognising international best practise, and then the
24 companies of course should be demonstrating that they're applying them.

25 **MS BEGG:** So the response is for the Regulator to review the processes that the business has
26 for asset management?

27 **MR SCOTT:** Yes, and that can be done at two levels. Ofgem again wanted to try and stay
28 hands-off. I give you two examples. One it asked consultants to drill down into such
29 matters as, you know, the asset management of underground cables, particularly
30 problematic for polluting underground water courses and something. So the Regulator
31 drilled into that, but that was a one-off piece of work and then it was satisfied that the
32 companies had a good policy and it might occasionally dip check whether it was applying
33 the policy.

1 What I think is difficult is where there are emerging policy issues. And I myself
2 had more confidence in what I call the PAS 55 standard which is being used around the
3 world, which is a standard for asset management. The reason I favoured it is that it's
4 non-prescriptive. It doesn't tell the companies how to asset manage. It says if you're
5 doing good asset management you will have the following kinds of processes. You will
6 have good asset registers, you will have processes for getting equipment on your asset
7 register and off your asset register, all those kind of basics. And a PAS 55 audit is a
8 check that companies have got good processes and they are operating them. And again
9 Ofgem didn't act as the PAS 55 auditor but encouraged the companies to go to an
10 independent audit party.

11 **MS BEGG:** Thank you. I just had one other question and that was the focus in the UK on
12 ex-post review of outcomes. I just wondered, it seems to me from the business's point of
13 view that would be a bit risky, and obviously ex-post with the benefit of hindsight
14 decisions that were taken, you know, a few years ago might not look good. And I just
15 wondered how that balance is struck between second-guessing when you have all the
16 information in versus the information available at the time decisions are made.

17 **MR SCOTT:** It's hard to quantify this, but there is a measure of trust needed and the
18 reasonableness of reviews and that they should be proportionate, that's important. What
19 happens in the UK is that Ofgem uses specialist consultants. Ofgem is about 300 people,
20 mainly economists and so on, but with a small technical team of engineers, which I think
21 is a reasonably good balance actually. You don't want too many engineers but it's helpful
22 to have some.

23 And the use of consultants, the consultants are directed by Ofgem using
24 engineering knowledge and so on. And to give you an example, I checked recently
25 because my company assisted Ofgem recently. There were transmission schemes that
26 were reviewed in detail because they were unusual, they had a lot of undergrounding, or
27 they were going to be very contentious for public consents point of view and they were
28 given closer inspection.

29 But out of a long range of projects there were projects in New Zealand dollar
30 terms of 40, \$60 million which had a very brief review by the consultants just looking at
31 do the unit costs look reasonable, is this following good asset practise that we looked at
32 before, you know, in other words the company's getting on with its business in the way
33 we expected. And then there were projects perhaps at more like the \$40 million level,

1 which were unusual, which were probed in some detail and in some cases even subjected
2 to consultation because they were unusual.

3 So Ofgem has no thresholds, it uses a judgment of, you know, separating projects
4 which are unusual or contentious from those which should be business as usual and the
5 company should be just getting on and doing it.

6 **CHAIR:** Thank you. Staff got any questions?

7 **MR HEAPS:** Yeah, sorry I was just thinking which one to ask first, sorry. Thanks John, I think
8 that's very good, it's provided a lot of food for thought. I was just thinking about, there's a
9 trade-off, isn't there, you're talking about, and particularly Transpower's facing that with
10 the aging condition of asset and the need to invest more at a highly loaded system as
11 you're outlining, and there is a trade-off there between speed and expediting plans going
12 through and getting moving on things and actually control on the money that's spent.

13 And I presume you'd agree that when you move into a time where you are going
14 to be spending more it's also extremely important to be able to target that expenditure in
15 the best places and make the best use you possibly can for the available capital. So there's
16 a tension and a trade-off between those two.

17 You didn't mention around Ofgem about least cost efficiencies in terms of
18 economic efficiency and decision-making. Can you just explain where you think the
19 Regulator should be in ensuring that those outcomes occur as well?

20 **MR SCOTT:** Thank you. The approach taken by Ofgem at the time of the reset as well as
21 looking back, of course, in particular looking forward, again consultants probe the
22 company's plans. And it usually becomes quite evident actually if there is inefficient
23 investment, which is usually where there hasn't been enough thinking done.

24 But what Ofgem does recognise is that, particularly with a five year period, it
25 really isn't possible to have the same degree of planning by the company for the later
26 years. So it's looking at a kind of envelope of expenditure, it's expecting those
27 substitutions to be made later in the years, the plan, as the company gets closer and gets
28 better information and makes the necessary trade-offs.

29 Again, you know, the company would be required to demonstrate good internal
30 investment decision processes, proper evaluation of alternatives, sensitivity analysis, all
31 the things that you'd expect. There isn't a formal equivalent to your grid investment test,
32 but I'd see that kind of approach as a useful tool that should be informing a balanced
33 business judgment.

1 Because what I did used to see myself was that the difficult decisions were often
2 the ones which weren't quantifiable. You know, if you can get the answer from the
3 bottom right-hand corner of a spreadsheet it makes the decision-making much easier. But
4 if you have issues such as difficult landowners, or the risk to assets failing before you get
5 to them, or difficult issues like what happens if there is an unexpected - an unknowable
6 unknown occurs during the work. You know, if you're doing major work into an urban
7 area and you have an unexpected event during the work the return to service time, as we
8 used to call it in the UK, for the other assets can be frighteningly long. It's not just like
9 getting a maintenance outage return, it could be weeks while you complete some piece of
10 work.

11 So those issues, I feel, are very hard to simply put a numerical answer to, but they
12 are very much the things that the company should be alert to, and should be able to
13 explain themselves, you know, and give account for.

14 **MR HEAPS:** So are you saying that the Regulator would expect them to have good process?

15 Does the Regulator assess that in any way?

16 **MR SCOTT:** Yes, the Regulator would typically pick out, this is looking to the forward period,
17 the consultants would look over a major programme of work, you know, could be many
18 hundreds of schemes in a five year plan as well, and pick out those things which were
19 unusual or large in scale, and drill down into those in more detail.

20 And I think what the Regulator's doing, to be honest, is putting the company on its
21 toes. And perhaps I could mention, and I should have brought it out earlier maybe;
22 Ofgem, to try and tighten up in these areas, has introduced annual reporting, RRP, the
23 regulatory reporting pack during each year of the period. And it requires the company to
24 report, all the companies to report on their expenditure and their delivery to date.

25 But there are important things here. One is it's required a lot of attention to
26 consistent reporting, but that has a benefit later when it comes to the next reset that you
27 don't spend half the time arguing over the definitions. How did you treat subcontractors
28 in your costs and all those things. So it's achieved more consistent reporting.

29 It is not used in any way to influence the financial framework or the incentives.
30 What it is used to do is identify things that look to be going off track. And Ofgem, you
31 know, why I say keep the board members accountable; Ofgem calls in senior
32 management, calls in at certain stages in the price control review, they actually call the
33 board members in. Before they settle the price control they actually quiz the board

1 members on what's going on, do they really know what's going on in the business and so
2 on. And this annual reporting is used to again bring the agenda items up, get the spotlight
3 out and if necessary remind the companies of what's expected of them.

4 **MR HEAPS:** Can I just ask you as well, I think an interesting area is the ex-ante evaluation of
5 plans and then the ex-post review, and you're saying Ofgem's focus is on the ex-post
6 review. Could you just maybe discuss the extent that accurate planning sort of influences
7 the ex-post review. Because if you had highly inaccurate planning you are going to be
8 looking at massive ex-post reviews, which of course will flow through to price volatility
9 for consumers and different sort of wealth transfers and all of those sort of issues.

10 So there has to be a degree, I would have thought, of accuracy to limit the extent
11 of ex-post reviews. Is there now a history that Ofgem have got in how good the planning
12 is and how close that is and how that minimises ex-post reviews?

13 **MR SCOTT:** From what I saw myself the ex-post review, because there's a large volume of
14 work there, cannot be exhaustive. So it's looking for management by exception, you
15 might say, which is usually a good approach. But it's very real because Ofgem, you
16 know, this is about the Regulator with its eyes open, the Regulator is looking for poor
17 planning, is looking for poor investment decisions, and it holds the ultimate sanction in
18 the UK of saying if they're not persuaded about the value of that asset in the sense of its
19 investment worth to the customers it will be excluded from the regulatory asset base.

20 To my knowledge that was done while I was with Ofgem for a gas investment, or
21 a gas pipeline was put in, it then had very very low utilisation. And Ofgem's starting
22 position was that it was going to exclude this from the company's asset base, in other
23 words it was going to be paid for by the shareholders not the customers. I think by the
24 time a lengthy investigation had gone through there was something of a compromise
25 position adopted, but the signal sent was a very powerful one. And this was that these
26 things would be scrutinised but not down to a micro-management level.

27 **CHAIR:** Thank you, thank you very much. Can I ask Merryn York to give a statement from
28 Powerlink.

29 **MS YORK:** Hi, I'm just going to run through the Australian capex regulation framework, and
30 this is the framework that applies in the national electricity market part of Australia, so it's
31 the interconnected states on the eastern seaboard but including South Australia and
32 Tasmania. So I'll just run through this quickly. Hopefully I've captured all the main
33 elements that are relevant to the kind of things that you guys are considering.

1 So in essence there's two components to the capex allowances that are set. One is
2 the main ex-ante capex allowance, and at the end of the day in the transmission
3 determination that the AER makes that's one bucket; Powerlink's five year ex-ante capex
4 allowance for the five years that it's currently in was \$2.6 billion. And there's a separate
5 arrangement for contingent projects, and I'm going to talk a little bit later on about what
6 contingent projects actually are.

7 The framework is incentive based, so it's about keeping return on and of capital
8 which is below the main ex-ante allowance, but only within the regulatory period, so
9 within that five year period. That doesn't carry forward to subsequent regulatory periods.
10 And the converse, it's a completely symmetrical incentive arrangement, so if you
11 over-spend your capex allowance then you lose both the return on and of the capex within
12 the regulatory period.

13 So at the end of the five years the AER will look at the actual spend of the
14 business and that is what is rolled into the regulatory asset base. So it's determined
15 year-by-year for the five years, but it's all assessed at the end of the period. What the
16 AER's mainly looking for there is that it's all prescribed services. So you're talking about
17 connections and things like that in the Australian framework, connections between the
18 transmission and the distribution businesses, and the investment in the main network that
19 meets reliability standards or replacement standards, that's all prescribed. Connections to
20 generators or major customers are not prescribed, so they sit outside of the maximum
21 allowable revenue and they're not actually - strictly they're not regulated so that's just
22 something to note.

23 The return on capital is determined on an as incurred basis at the WACC rate, so
24 that's as you spend it each year, as you're actually investing in that capital. But the return
25 of capital is on an as commissioned basis. So it's when the asset actually goes into
26 service, which is pretty much aligned with accounting standards.

27 And the depreciation is straight line typically, the businesses do have an
28 opportunity to make a case for something different if they consider that's more
29 appropriate but the standard lives are agreed with the Regulator. Again, the business can
30 make a case to have a different standard life for particular classes of assets. In Powerlink
31 we have 20 different classes of assets, so things like transmission lines, underground
32 cables, transformers, substation primary plant, substation secondary systems, comms, but
33 also fleet, buildings, EMS, things like that.

1 In terms of the incentive framework there's really a few objectives that it's
2 important to understand. So in the regulatory determination, the transmission
3 determination, the allowances are set at the beginning, and the aim of the incentives is to
4 have the business actually out-perform those allowances or those benchmarks which are
5 set. So the business gets to keep efficiencies for the duration of the regulatory control
6 period, and then what's actually happened is taken into account in the setting of the
7 allowances for the next regulatory control period.

8 So over time the businesses are actually incentivised to reveal their true costs of
9 running their business. So it's a cyclical thing. If you get an allowance and you
10 under-spend it, then naturally those efficiencies are going to be taken into account in the
11 setting of those allowances for the next determination period. So that's the aim. Of
12 course the Regulator wants us to undertake necessary investment and that's built into the
13 Service Standards Scheme, or in Australia it's called the Service Standards Scheme. I
14 think it's got a slightly different name here, but it's the performance measures and it's a
15 bonus penalty scheme in Australia.

16 Of course they want reasonable price outcomes so they want a predictable price
17 path for customers, they want to maintain or improve service quality, and they want to
18 have ongoing efficiency drivers on the business. So they're always looking to set a
19 benchmark that the business makes a case for, but then to out-perform it, to actually do
20 better than that by finding efficient ways to deliver the services over time.

21 The natural information asymmetry between the regulator and the business has
22 been talked about this morning and it is real. I don't think there should be any expectation
23 that the Regulator is going to know as much about the business as the business knows
24 about its own business. So there is that natural information asymmetry. But the incentive
25 framework is really there to help the business to explain to the Regulator how it's
26 developed its allowance proposals, what they're based on, and to then deliver efficiencies
27 throughout the regulatory control period.

28 In terms of the framework, as I said before there is this ex-ante capex allowance.
29 It covers essentially most or all of the expected investment. Obviously it's driven by the
30 investment needs of the business; so things like demand, replacement,
31 telecommunications systems investment, all those kind of things. The dollars are
32 included in the cap up-front, and in the Australian context there's pretty much no second
33 chances. So if something comes out of left field that you don't know about or is not

1 predictable, either the known unknowns or the unknowns unknowns, then you really don't
2 get a second chance to go back and ask for some more allowance. It's up to the business
3 to decide how it's going to manage that.

4 The forecasts that are put forward are generally scenario based. So in Powerlink's
5 last revenue determination we had 40 different scenario outlooks. So there's 40 different
6 potential outcomes, and the reality is that we're probably not going to be on any one of
7 those, we're actually going to meander between those scenarios. So the forecast in any
8 individual one of those scenarios is never going to eventuate. And that's reality, that's
9 what happens. So the capex allowance that we actually applied for was the probability
10 weighted average of the mix of those scenarios.

11 So the corollary of that is that we're never going to do all of the projects that are
12 listed in our revenue proposal. It's no expectation that we would do all those projects that
13 are in all of those scenarios. We're going to do a selection of those projects. And we may
14 do some that aren't on the list because things happen. There's certainly no expectation in
15 the Australian context that all those projects will be approved at the start when we
16 actually make our proposal, no expectation of that at all.

17 The ones which are underway are naturally expected to be approved in accordance
18 with good governance practises, but the ones that aren't yet started will be going through
19 the approval process. Some of them we know we won't do so there's really - it doesn't fit
20 to have all those projects approved, it's just not what's expected at all.

21 In terms of the contingent project allowance, this is really for projects where
22 there's some uncertainty about the timing or the spend, the actual amount of money that's
23 in the project. They are all linked to pre-defined triggers. And I've got the list at the end
24 of the presentation, towards the end of the presentation I've got the list of contingent
25 projects that were actually included in Powerlink's revenue determination. We had about
26 480 projects in our scenario mix and we had 11 contingent projects, so it's quite a small
27 number. There's no revenue or capex allowance associated with those contingent projects
28 included in the revenue determination up-front.

29 So I guess the big question is, given all that, how does the AER actually determine
30 an allowance that they're going to give to Powerlink in our case. So it's quite a structured
31 process, it's quite predictable. The AER have developed this process, I guess, over a
32 period of years, so we already know pretty much what approach they're going to take
33 when they come to our next revenue determination which starts next year.

1 The first thing they'll look at is our governance frameworks, so what approach do
2 we take for different types of projects to reach a conclusion that we actually need to make
3 an investment. So for a demand driven project how do we identify that we have a
4 forecast limitation, how far out do we look, what is the basis of our demand forecast, what
5 is the rating that we use on our network elements, how do we then choose options that we
6 will evaluate, how do we compare those options, how does that fit with our overall
7 network strategy outlook with other things that are going on, what do they cost, how are
8 we costing it, how are we allowing for escalations; all that kind of thing.

9 So they'll check all the inputs, like our probabilistic planning, network planning
10 criteria, replacement triggers, are we using condition assessment or some other kind of
11 assessment for replacement triggers? Is it age, is it lack of spare parts, lack of
12 manufacturer support, what's actually driving the feed for the investment?

13 And then they look at the groups of projects that we've got in our application and
14 they will test that against a selected sample of projects. So they don't look at all 470
15 projects, they take a sample of the projects from each category and they test whether or
16 not we've applied the governance framework that we said we have, the planning criteria
17 or the replacement trigger, or whatever it is that's driving that investment. They test
18 whether we've applied that framework in the way in which we've said we use it, and they
19 do that, as I said, for the range of different types of projects we have.

20 And they also look for how we're applying it for different dollar values within that
21 group of projects. So they might look at one project that's \$100 million but they also may
22 look at a project that's only \$5 million in the same type of projects. Like demand driven
23 projects or replacement projects. So they're trying to look at whether or not we're
24 applying the methodologies and using them in the way that we say. They're really
25 looking for good governance.

26 If it's a near in project then we may have a regulatory test assessment underway or
27 a business case underway. But if it's further out it will more be documented in our grid
28 plan outlook. So we have a grid plan for our load driven investments, or our load driven
29 needs, and we have what we call a non-load driven plan which really covers all our
30 replacement activities. And they're looking for whether or not they're approved if they're
31 close in, and if they're not are they in our plans, are they documented, what option have
32 we looked at, how have we compared those options and things like that.

33 They're also looking for reasonable cost forecasts, so they'll look at our unit costs

1 and how we've built up our cost estimates. And again different approaches depending on
2 how near in or how far out the project actually is. So for a project that we've already got
3 underway we would have a detailed cost estimate. But for a project that is five years out
4 we'd probably only have a unit cost-based estimate. Our estimating project is US cost, I
5 think Kieran was talking about that being implemented in Transpower.

6 They also look at how we then accumulate all those costs, so we estimate in
7 today's dollars, all of our current project estimates are in today's dollars, and have to take
8 account of the fact that costs will increase over time. Experience is that not all costs
9 escalate at CPI, so there'll be some estimating, some forecast of how things will vary over
10 time. It might be steel prices or labour prices. Cost estimates will be broken down into
11 those different building blocks of what makes up that cost estimate escalated at different
12 rates going forward and that's all factored into the decision.

13 There'll also be maybe a risk premium on the cost estimate because there's an
14 asymmetric risk of where actual project costs are going to go more over or under. It's
15 more likely that you're going to go over your estimated costs rather than under your
16 estimated costs. That's proven true historically. So all those kind of things are taken into
17 account.

18 And then they'll check the overall capex is deliverable. So do we actually have
19 processes and procedures, contracting arrangements, all that kind of thing in place so that
20 we could deliver our programme of work. Particularly if there's a change, a significant
21 change in the amount of capex that you're likely to be spending going forward. So in our
22 last regulatory period we had ramped up quite significantly from about \$200 million
23 a year up to about \$500 million a year capex spend, so they wanted to make sure that we
24 were actually going to be able to deliver that capex before they made that allowance.

25 Practically how does it work? Because we know that process in our revenue
26 proposal that we submit to the AER, we will provide information that helps them
27 understand what's going on for each of those steps. We have a five year regulatory period
28 in Australia, five year minimum for transmission and for distribution, and it's really a
29 balance between the actual overhead of doing a revenue determination, and the process
30 takes about two years to make a revenue determination, a year for the business to get the
31 information ready and about a year for the Regulator to analyse it. So there's a balance
32 there between just that sheer overhead of doing a revenue determination and the forecast
33 accuracy to set the allowances. So over time as you get further out the actual forecasting

1 accuracy drops off and that's the way it always happens.

2 Our next revenue period for Powerlink is from 1 July 2012 to 30 June 2017. We
3 have to submit our proposal in May 2011, so we're starting to do the preparatory work for
4 that now, we've just formed our reset team which will prepare that application. But
5 there's certainly no expectation that we will have all those projects in that five year period
6 approved ahead of time. These projects get approved as we actually make the investment
7 decisions. But they will be in our revenue proposal.

8 The as incurred approach to capex means that we're actually forecasting projects
9 which are being started at 30 June 2017, so they might be getting completed if they're a
10 network investment in 2010, or if they're involving an easement acquisition might be all
11 the way out to 2021. So it's a fairly long period to be thinking about how you're going to
12 estimate, how you're going to forecast those projects, how you're going to estimate the
13 costs of those projects.

14 Once the determination is made by the AER, from their point of view it's pretty
15 much set and forget until next time, although there is annual reporting, as John said for
16 Ofgem. We have to make annual reports to the AER of what our actual spend is by
17 project, those projects are categorised. If the AER wanted to they could compare that
18 with the revenue proposal that we made. That's up to them if they want to do that, but
19 that makes sure that we are keeping track of how we're going. If we have changes in the
20 projects then we have to provide a brief explanation with those regulatory accounts.

21 There's also no ex-post prudency review at all. So they're not looking back with
22 the benefit of hindsight as to whether those investments were legitimate or not. In our
23 previous regulatory framework there was an ex-post review but in that framework there
24 was no ex-ante cap. So from the Australian point of view it was one or the other, not
25 both. So there was a change from ex-post to ex-ante.

26 In terms of the types of projects that are in our framework, and I stress that these
27 are just groupings, they don't mean that this is one cap and that you can't substitute
28 between one group and the other, there is freedom for the business to allocate things as
29 they see fit. So there are load driven projects which are essentially augmentations,
30 connections. And again I stress just to DNSPs or distributors and easements, non-load
31 driven, projects which might be replacements, or security, or EMS, or communications,
32 and what's referred to as support the business projects; IT, buildings, fleet and other
33 things like that.

1 The reason that they categorise the projects like this is that they're slightly
2 different governance frameworks because these have different drivers. So if you're
3 looking at a demand driven project you need to be looking at the demand forecast, what
4 the flows on the network are and how that compares with the rating of the equipment,
5 what your obligations are in terms of reliability. Whereas if you're looking at a
6 replacement or an EMS upgrade it's a different driver. And they want to capture that,
7 they want to test our framework and test a group of projects against that framework.

8 They also recognise that there's different levels of scrutiny based on the dollars of
9 the project and that's both on the part of the Regulator and on the part of the business. So
10 most businesses have different delegation levels for different people to be able to approve
11 projects all the way up to their board, and the Regulator recognises that. So they want to
12 test that if you have to go to your board to get approval that you've done that, if it's an
13 approved project, but if you can get it approved by someone like me then you've also
14 done that.

15 In terms of augmentations, which is just the component of load driven that's on the
16 shared network or what we call the shared network, I think Richard might have used the
17 term core grid and maybe that's equivalent. Augmentations must also satisfy the
18 regulatory test, and again this is not ahead of time, this is at the time you're actually about
19 to make the investment decision. Small investments are things more than \$5 million and
20 large investments they're actually things more than \$20 million, that 25 is incorrect, it's
21 actually \$20 million. Less than \$5 million even if you are making an augmentation
22 there's no regulatory test assessment required or consultation process.

23 The consultation process for augmentations is that we have to put out our
24 assumptions to the market, market participants have an opportunity to comment on that,
25 tell us if they think we're right, we're wrong, we should be taking something else into
26 account, we're looking for non-network alternatives to a grid augmentation. So those
27 people come forward and tell us if they've got a demand side response or a generator that
28 we haven't accounted for and they're prepared to run it in a way that we need to suit the
29 network. Usually they want some payment for that, so if that all flows through and that is
30 the most economic way to meet that need, then that grid support can also be included in
31 the regulatory determination, as an opex line item just for interest. So in terms of at the
32 time of our revenue proposal some assessments are complete, some not. It just depends at
33 what stage that investment is actually required to be made.

1 As I said before, substitution is okay amongst all the categories; it's actually
2 expected, that if we have some unforeseen demand driven requirement that means we
3 have to make an additional investment somewhere to meet our reliability of supply
4 obligations, that we'll actually reprioritise the other components of our programme so that
5 we still live within the cap, otherwise if we over-spend we're actually losing money
6 within the period. So we're actually expected to reprioritise.

7 And if we have to do that and we don't have other efficiencies such that we can
8 catch up, then the thing that we've reprioritised out we'll have to ask for again. Just
9 because we reprioritised it out doesn't mean we don't need to do it. So that's an expected
10 part of the framework.

11 I thought this was an interesting quote just to share with you the AER's view on
12 the capex allowance. So I'll just read it out. This was actually in Powerlink's final
13 determination from the AER.

14 "Notwithstanding that specific capital projects have been proposed by Powerlink
15 and a sample of these have been assessed by the AER, this decision does not require
16 Powerlink to undertake or not undertake any particular investment. Under the ex-ante
17 framework, Powerlink has full operational discretion to allocate its expenditure
18 allowances as it sees fit. It has an incentive to seek more efficient ways of delivering its
19 services in order to maximise its profits while maintaining the service standards that have
20 been set in the decision. These arrangements should provide benefits to users over the
21 longer term".

22 So it's very clear that the AER are not approving things on a project by project
23 basis, they are actually expecting the business to manage that bucket in the best way it
24 sees fit.

25 Just a couple of final things. Contingent projects; these have a minimum
26 threshold, so in terms of large dollars and uncertain, they have to be at least \$10 million
27 or 5 percent of the first year MAR. So in Powerlink's case 5 percent of the first year
28 MAR was about \$35 million, so had to be a project in this case greater than \$10 million.
29 And they had to be uncertain, and that was really about whether the trigger would occur,
30 not whether we were uncertain about what project we might do. So the uncertainty was
31 around the driver for the investment.

32 In terms of how it works, if the trigger is activated and it's a pre-defined trigger,
33 we make an application to the AER for adjustments to our capex, opex and revenue and

1 that is within period. So it's like a little mini reset for the contingent project itself, and the
2 MAR is adjusted within period. So the AER will determine what the revenue, what the
3 adjustments to the capex, opex and revenue are and give us a new X factor for the
4 remainder of the period because we're on a CPI-X revenue path.

5 These are the 11 contingent projects that Powerlink had in its last revenue
6 determination. So the triggers were things like if an upgrade to the interconnector
7 between Queensland and New South Wales satisfied the regulatory test in terms of net
8 market benefits. The QR electricity track, that has actually triggered, but because of
9 changes to what's a prescribed service that doesn't come into our MAR, that's actually
10 dealt with as a negotiated service outside of the MAR. Things like an early closure of one
11 of our major power stations in the Southeast Queensland area, Big industrial
12 developments, specific coal mining developments, and these all had, underlying these sort
13 of high level triggers I've listed here, they had how many megawatts actually needed to be
14 added to which load forecast, which year's load forecast in order to give rise to the trigger.

15 So they're quite specific, they're not things like that the price of steel was double
16 what you thought it was going to be, or that the price of copper is triple what you thought
17 it was going to be, or that labour costs have escalated two or three times what you thought
18 they were going to be; those are all things that the business has to manage and can drive
19 changes to your project costs, which can then give rise to a need to reprioritise.

20 Just wanted to touch on lastly how we got here, so how we got to this framework
21 and the AER being comfortable that they can run this process in this way. In Queensland
22 we had vertical separation in 1995, so prior to that we were all one integrated organisation
23 called the Queensland Electricity Commission; generation, transmission all in together, so
24 we had separation in 1995. That's when revenue regulation commenced of us as a
25 transmission business.

26 Initially it was one year, then three years, and now it's five years or more. So we
27 could make a case to the Regulator to have longer than a five year regulatory period if
28 that's what we wanted to do and if the AER accepted that. There are some transmission
29 parts in Australia which don't have a lot of capital investment and they actually have
30 ten year regulatory periods.

31 The NEM commenced in 1998, Powerlink started being regulated by the ACCC in
32 2002 and that's now the AER. The ACCC at the time ran a draft statement of regulatory
33 principles from 1999. Initially that had an ex-post capex framework, and the ex-post had

1 the opportunity for capex efficiencies. So that if the business considered that it had
2 delivered efficiencies in the delivery of particular projects then they could make a case to
3 receive some of those efficiencies themselves on a sharing basis between the customers
4 and the business. That's now moved to an ex-ante framework and that occurred during
5 2004, but there's no ex-post, it's just ex-ante, one or the other.

6 And then more recently there was the so-called Chapter 6A review which actually
7 created Chapter 6A in the National Electricity Rules. That occurred in 2006 and 2007.
8 Ex-ante was confirmed, again without ex-post, and those arrangements are now in the
9 National Electricity Rules which effectively makes them law in Australia. So that's all
10 pretty much locked in.

11 **CHAIR:** Commissioners, do you have any questions? Perhaps it's 20 past, we're running a bit
12 behind schedule, perhaps if we reconvene at 10.40, is that okay? Thank you.

13
14 **Adjournment from 10.17 am to 10.40 am**

15
16 **CHAIR:** Okay, welcome back, hope the coffee was nice and warm. We are running slightly
17 behind schedule, that's not to worry I'm sure we'll catch up. Commissioners do have
18 some questions from Merryn's presentation. Commissioner Begg.

19 **MS BEGG:** I just had one question, and in your presentation you noted that for projects that
20 were under \$5 million they weren't subject to the equivalent of our GIT test. I just
21 wondered what regulatory scrutiny they were subject to.

22 **MS YORK:** In terms of the actual investment when we're making the investment decision or at
23 the time of the revenue proposal?

24 **MS BEGG:** At the time of the revenue proposal.

25 **MS YORK:** They would just be in the mix of projects that are sampled by category and by
26 dollar value. Does that answer the question?

27 **MS BEGG:** [Nods].

28 **CHAIR:** Associate Commissioner Caygill.

29 **MR CAYGILL:** Can I get you to explain how the regulatory test, the net market benefit test
30 relates to the revenue determination. Are they separate things in effect, can we just -

31 **MS YORK:** They are separate things. So at the time of the revenue proposal and the revenue
32 determination for projects that are close in or either approved or on the verge of approval.
33 So if we've got an approved project we might have spent some money on it, but there'll be

1 some money still to spend and there'll be the roll in and the depreciation allowance after
2 it.

3 So the AER will, in their sample, if they're looking at a particular project, they'll
4 want to see, if it is an augmentation and it's above the thresholds, they'll look at our
5 regulatory test document as part of their scrutiny of that particular project, if that's in their
6 sample. If it's, you know, further on there's no regulatory test because we're not making
7 the investment decision. So they are separate.

8 **MR CAYGILL:** Right, so maybe without prolonging it because in one sense it's not the
9 fundamental focus - fundamentally it seems to me the discussion today and yesterday is
10 about the equivalent of the revenue determination. But because I don't understand how
11 the regulatory investment test works, can you just take us - in particular I guess the thing I
12 don't understand is who does that, is that just a test that you apply as a company, or is it
13 subject to somebody else's check off and oversight and who enforces that?

14 **MS YORK:** I can explain this because I actually run those in my company. So the regulatory
15 investment test at its simplest is just a cost benefit test. So I won't go into the kind of
16 mechanics of it. But in the rules, in the National Electricity Rules in Chapter 5 there's a
17 consultation process that's associated with it. So as a transmission business, or a TNSP,
18 for investments in prescribed services that meet the definition of an augmentation which
19 is that it has to increase the capacity of the network to transfer active power, that's in the
20 definition - I'm paraphrasing but it's something along those lines.

21 If it meets that definition then it's above the thresholds then we have to go through
22 a consultation process. That's something that we do, so Powerlink runs that process, and
23 we have to put out - we actually apply another step which I'll come back to. But the rules
24 requirement is for us to put out what's termed an application notice, and that is a draft
25 recommendation for what the investment's going to be. That investment could be grid
26 support, demand management or a network element.

27 In that there's a whole pile of things that have to be included in that document
28 which is all our assumptions, what the need is, what options we've looked at, our
29 economic comparison of those options, what information we base it in, what the cost is,
30 technical description at a high level of what the network investment is. We have to call
31 for submissions on that, and then we have to take those submissions into account, respond
32 to those, and then subsequently put out a final report, which is the final recommendation
33 that we're making.

1 The AER technically is not involved in that process at all, that's something that we
2 run. They don't get involved, they're not evaluating it or anything like that. After we put
3 out the final report there's a dispute period, so if someone doesn't like or doesn't feel that
4 we've made the right recommendation they can dispute our recommendation and the
5 dispute is heard by the AER.

6 **MR CAYGILL:** Okay. So it's -

7 **MS YORK:** There's probably one other bit. In the dispute process the AER still don't say yes or
8 no to the investment, they say you need to go back and re-evaluate and take these things
9 into account and then we have to put out the final report again.

10 **MR CAYGILL:** Sure, but to the extent - basically you described what I would call a third party
11 review process that is quite independent from the revenue determination which you
12 described earlier.

13 **MS YORK:** It comes to our compliance with the rules. So if we don't do the regulatory test then
14 we're not compliant with the rules. And in order for our investments to be seen as
15 prescribed services they have to meet some obligation that we've got in terms of
16 reliability of supply, or be required to, you know, maintain things like replacements are
17 not augmentation, they're not subject to the regulatory investment test.

18 There's always that relationship between replacements and augmentations where if
19 you can combine them together you can get economies of scale. So if the replacement
20 includes an augmentation component that's above the threshold, just the augmentation
21 component, then we need to do the regulatory test on the augmentation component. But if
22 it's straight, you know, the transformers had it and you're buying a new one it's not subject
23 to the regulatory test. So the AER wants to know that we've done it and that our
24 governance framework has that we will do it for all future investments.

25 **MR CAYGILL:** I'm clear, that's useful, thank you for that.

26 **CHAIR:** Do staff have any questions?

27 **MR FLETCHER:** Mr Chairman, can I just clarify a point? Merryn, the process you just
28 described that's the detailed process for the over \$20 million?

29 **MS YORK:** That's right.

30 **MR FLETCHER:** And there's a lesser process for the lesser -

31 **MS YORK:** There is a lesser process for the 5 to \$20 million category where it's a kind of more
32 simplified consultation process where we can use our annual planning report. So once
33 a year we have to issue an annual planning report. That's got all kinds of information in it

1 about what our network looks like, what our demand forecasts are, where we expect flows
2 to go, and it includes in an appendix any small network investments that we want to make
3 and that can form the consultation process for that. That's more of a one step process, so
4 if we put that out in the annual planning report, or as a separate document, if nobody
5 makes a response or anything then that's it, we don't have to issue another document.

6 **MR CAYGILL:** But if somebody did challenge it?

7 **MS YORK:** If somebody did challenge it we would be required to address their concern and put
8 out some more information about what we were going to do.

9 **MR CAYGILL:** And is that -

10 **MS YORK:** It may not change the recommendation, but it has to be - we have to say how we've
11 taken that into account.

12 **MR CAYGILL:** Sure, and if somebody didn't think that you had sufficiently taken into account
13 their point of view, is that reviewable?

14 **MS YORK:** On the 5 to 20 there's no dispute provision.

15 **MR CAYGILL:** That's fine, thanks.

16 **MR HEAPS:** I wonder just for completeness then, the under \$5 million, that would be subject to
17 your own internal processes -

18 **MS YORK:** That's correct.

19 **MR HEAPS:** - that you define, and those processes are reviewed by the Regulator?

20 **MS YORK:** At the time of the revenue determination.

21 **MR HEAPS:** At the time, yeah.

22 **MS YORK:** But not for each investment.

23 **MR HEAPS:** But the Regulator would look at whether those processes have been applied in
24 practice through project sampling?

25 **MS YORK:** At the time of the revenue determination through project sampling, that's right.

26 **MR HEAPS:** I was just wondering as well, using the incentive I think it's an interesting
27 mechanism. But actually locking in the allowance at the start of the period through the
28 ex-ante review potentially places the company at risk but also the consumers at risk of
29 over paying.

30 But it provides the company with an incentive for investments. It must be based
31 on the assumption that the planning has got a reasonable degree of accuracy to manage
32 those risks. Because you would have the ability to have efficiency gains and that's sort of
33 fair enough in there, that's a good incentive for that. But also planning inaccuracy could

1 potentially drive quite big differences between the actual spend and the planned spend.

2 So is that assumption correct that I'm making, it is based on, as you've said, the
3 history, that the Regulator has now got confidence that the planning is sufficiently
4 accurate to be able to take that approach?

5 **MS YORK:** I can't comment on the views of the AER as to whether they think that our planning
6 processes across all businesses, because it's all transmission businesses and distribution
7 businesses that have an ex-ante framework set ahead of time with no ex-post review. So I
8 can't comment on whether they feel the accuracy across all those businesses in the NEM
9 is sufficient.

10 But I guess what I could say is that in our previous revenue determination under
11 the ex-post arrangement we actually had a 20 percent over-spend in capex. And they
12 went to an ex-ante framework because that's where they were headed. So in that regard
13 on an ex-ante framework that would have been a disadvantage to us as a business.

14 So I guess my view is that they are forcing the businesses to get their act together.
15 There's a lot of downside risk for the business if they don't get their act together.

16 **MR HEAPS:** Thanks.

17 **CHAIR:** Any more questions?

18 **MS WARD:** One point you made was that there's annual reporting by the TNSPs and you said
19 that the AER can compare that with the proposal and they can do something. What can
20 they do? Can they re-open the revenue requirement?

21 **MS YORK:** No.

22 **MS WARD:** What can they do?

23 **MS YORK:** They can look at it.

24 **MS WARD:** They can look at it, that's it, thanks.

25 **MS YORK:** Within the revenue period they can look at it. Obviously they would want to take
26 that into account when they're setting our next revenue determination about how different
27 was it, what are our reasons for that. That comes down to particularly, I guess, asking for
28 the same projects again. And I can tell you right now that Powerlink will be asking for
29 some of the same projects again because we have had variations in costs of projects,
30 changes to the mix of projects, things that were unforeseen occurring to us, plant dying
31 before we thought it was going to, and we have to change our plan. And some of that will
32 result in us asking for some of the same projects again.

33 **MR MELVILLE:** You mentioned in your presentation that the AER looks at whether the capex

1 programme is deliverable. Can you just give me a feel for how the AER makes that
2 assessment of deliverability?

3 **MS YORK:** I can tell you what they did for us. So particularly because in our last revenue
4 determination we were having quite a steep increase, they wanted us to explain to them
5 what things we were putting in place to ensure that we could deliver that programme, so
6 they wanted to know, for example, what our transmission line construction contracting
7 arrangements would be going forward compared with what they were before; how we
8 were making sure that we got delivery of circuit breakers and isolators and things like that
9 from the suppliers, whether we had a process to pre-order production slots for
10 transformers so that we could make sure that we could get delivery of those things;
11 whether our contractors were able to source workers, riggers in particular, and where they
12 were going to be coming from, what mechanisms the contractors were using to get those
13 people in. In Australia they were coming in under 457 visas employed by the contractors.
14 So they wanted to know fairly detailed information about how we were going about that.

15 **MR MELVILLE:** Thanks.

16 **CHAIR:** Any more? **[No comments]** Thank you very much. Now we're going to start the
17 Commission presentations. Bill Heaps of Strata will be making the presentations on
18 behalf of the Commission. The way we'll do it is that he'll do his presentation, the
19 overview of the approach, and he'll lead the approach on the nature of capital projects.
20 And once questions are asked about that Bill will go on to the next presentation on
21 proposed capital expenditure categories. So please, Bill, do take the floor.

22 **MR HEAPS:** Thank you. I may well stand up during parts of this because I have some slides
23 with transitions that I hope will help to better explain the processes, so there isn't a fire if I
24 suddenly jump up. The focus of this session is on the proposed capital expenditure
25 categories. However to place these in some context I think it's necessary to cover the
26 background points, and also provide an overview of the proposed capex approach. But I
27 will be discussing in more detail the proposed approach in subsequent sessions.

28 Please note that the first four sessions that I'm going to present will be actually
29 looking at the long-term framework that the Commission is seeking to implement. And
30 I'll discuss the management of transition from the current position to the longer term
31 framework in two later presentations. So please bear in mind this is about long-term view
32 and we'll look at transitions later. I'll intend to keep reminding you of that as we're
33 discussing the long-term view.

1 The Commission is interested in any points of view on the various components of
2 the proposed approach, and what I'm going to do is break for discussion at various points
3 to gain your views and input. The purpose of the following session is to set out the
4 proposed capital expenditure categories and also provide the rationale for the materiality
5 level that we've used to set the boundary for large projects.

6 In developing the proposed approach the Commission took into account the
7 objectives contained in the Part 4 of the Commerce Act and the Government Policy
8 Statement, and included in the 2009 Input Methodologies Discussion Paper was a section
9 on the regulatory arrangements in Eastern Australia, and in the UK. The arrangements in
10 both of these jurisdictions provided some valuable inputs into the development of the
11 proposed approach for New Zealand. Those of you that are familiar with the AER and
12 Ofgem models will no doubt spot some of the similarities and some of the differences
13 between the proposed New Zealand approach and those arrangements.

14 The arrangements contained in the settlement agreements have been in place and
15 operating since 2008 with two annual reviews completed. And that experience has been
16 considered when developing the view on how the proposed approach would actually work
17 in practice.

18 Also we've reviewed historical data and that's enabled a view to be gained on the
19 structure of Transpower's capex, the relative sizes of projects and the accuracy of
20 planning expenditure. And we've also considered a range of other sources of information
21 and advice including, as John mentioned, the PAS 55 assets arrangements and standards,
22 and knowledge of how asset management actually is implemented in practise particularly
23 in New Zealand.

24 The following slide provides an overview on the proposed approach, and I'll take
25 you through you this one in sequence. So first of all at the core of the approach is
26 Transpower's forecast capital expenditure plans. Taking into account the range of
27 projects, these have been considered to fall into two categories, into large and minor
28 projects. I'll discuss these categories in more detail.

29 The capex plans are developed by Transpower using input data such as the age
30 and condition of assets and the capacity of the network. These inputs are assessed
31 through the engineering and other processes in order to establish needs and priorities, and
32 out of this comes the forecast capital expenditure plans.

33 Of course in a well managed company it's expected that developments of

1 expenditure plans are guided by policies, strategies and procedures that ensure the
2 planned investments are required to meet the service obligations such as those contained
3 in the GRS, the grid reliability standards. And of course that these can be delivered and
4 are at least cost to the customers.

5 In accordance with good regulatory practise the Commission's focus is intended to
6 be at the business case level for large projects and at the policy and process level for
7 minor projects. So the proposition when taking this approach is that if the business has
8 good governance and management structures, then the outcomes will be appropriate.

9 Information at the qualitative policy and process level is supported by data and
10 information gained at the quantitative level. So using the qualitative information, comfort
11 is gained that the businesses policies processes are actually being applied in practice and
12 that the business is capable of delivering.

13 So just to summarise that, it's intended that the Commission's focus for the larger
14 projects is at the business case level, and for the minor projects at the process and policy
15 level, and that the comfort is gained that the processes and the policies are being applied
16 in practice by reference to ratios and base data on such things as asset age and condition,
17 and through the appropriate application of Transpower's approved policies and processes.

18 Of course there are always trade-offs when looking at regulation. Regulatory
19 controls are considered desirable because they increase the certainty of least cost capex
20 outcomes. However, depending on how they're structured they may have unintended
21 adverse effects, such as limiting Transpower's ability to act responsively. Regulatory
22 controls may require a degree of certainty and accuracy, whereas Transpower may need
23 flexibility to respond to change in circumstances.

24 Under Part 4, and under the Part 4 Purpose Statement Transpower is to have
25 incentives to invest, yet Transpower is also accountable for investments under the
26 Government Policy Statement. Potential conflicts may have to be considered between
27 these two objectives.

28 Reducing the extent of ex-ante reviews versus minimising price impacts of ex-post
29 reviews, prices during the RCP should accurately reflect the costs of the business during
30 the RCP and ex-post adjustments that move prices into the following RCP. It's hoped that
31 those would be minimised. However, ex-post wash-ups can also benefit consumers if
32 actual costs are below planned.

33 Planning accuracy, therefore, is desirable but needs to be considered against those

1 flexibility needs. Regulation that's too prescriptive may prevent economically efficient
2 options being taken when deferral and substitution is desirable. In terms of the categories
3 that we're going to consider, the inclusion of larger projects in a bucket of minor projects
4 may actually swamp that bucket of minor projects and, if you like, create headroom if a
5 major project is deferred or changes substantially.

6 So in considering the need for categories, characteristics of large and minor
7 projects were identified. Of course large projects we've got a high number of relatively
8 small value individual projects, and I think that characteristic probably applies across all
9 transmission companies.

10 Grid asset projects, principally replacement and refurbishment within a small
11 enhancement component, that's for replacement and refurbishment of the grid assets.
12 Options are likely to be limited for grid asset projects in the minor projects categories.
13 And information systems, technology expenditure has got quite a large development
14 component.

15 Both RR&E and IST projects can be considered to be structured into aggregated
16 project groups of programmes. So they can be individual projects, but they could also be
17 considered to be aggregated into programmes, such as tower painting, transformer
18 replacement programmes. And it's recognised that a degree of flexibility is required to
19 optimise and prioritise minor projects during the RCP due to planning uncertainties.

20 Accuracy of planning and forecasting of course increases as the projects complete
21 process stages and gain Transpower approvals. So you could consider the initial list of
22 projects or the initial plans as being a long list and as the plans are subject to good process
23 and move through to approvals then the long list becomes a shorter list, and that one may
24 well have gains. So there could be gains in terms of least cost and there could be gains in
25 terms of improvements to those projects through prioritisation, so that the longer list
26 becomes the shortlist.

27 And we would expect that's because planning accuracy forecasting increases as
28 those projects complete those process stages. So they're generally what we saw as the
29 characteristics of the minor projects. We thought that large projects were quite different
30 and have different characteristics. Again large projects can be both replacement
31 refurbishment and have an enhancement component. And of course there can also be IST
32 projects within Transpower. They are high value and they do require rigorous assessment
33 and analysis.

1 Not all projects will be of a size that will require full investment tests, but we
2 would expect that they would undergo tests that are commensurate with the size of
3 project. There are likely to be more options to consider for large projects than smaller
4 projects. And, of course, in a transmission company, and in particular we found in
5 Transpower that there are a range of values and they can be extremely large, so between
6 hundreds of millions and millions of dollars.

7 Planning accuracy is expected for large projects. We do consider that for
8 particularly the larger end that these projects should be reasonably well-known before
9 time and a high degree of planning accuracy is undertaken before the regulatory control
10 period. But it is acknowledged that unforeseen projects may arise during the regulatory
11 control period as well. So I think that's pretty consistent with what we've heard in
12 previous sessions as well in terms of those characteristics.

13 I just wonder at this point if we could just have views or a discussion -

14 **CHAIR:** Discussion, yeah.

15 **MR HEAPS:** - on whether - just on the range of splitting capex into categories. Does it make
16 sense, should the categories be based on a dollar value, or on business unit, or a
17 combination of those, and what are the advantages and disadvantages of each method?

18 **CHAIR:** Transpower.

19 **MR FLETCHER:** I think we generally agree in principle that a distinction should be made
20 between major projects and not necessarily just by value but by complexity, as John said.
21 There'll be certain projects which have different options which perhaps need to be
22 consulted on and subject to more scrutiny.

23 I think we also agree that there should be projects which are outside of the revenue
24 envelope if they are of that nature. The question is where you set the threshold, and I
25 guess we'll be coming on to that in a moment.

26 I think, as Merryn said, by the fact that different parts of a capital programme have
27 different drivers and therefore different governance arrangements in terms of how they
28 get progressed by the company and how they're justified, and I think you do need to
29 categorise, as Transpower does itself internally, different programmes of work and
30 different types of work. So I think as a general principle, I think we agree with what
31 you've said there.

32 **CHAIR:** Has anyone got any other comments from the floor?

33 **MR SCOTT:** Could I add an observation. Bill, you talked about forecasting accuracy and I

1 don't think I included in my comments earlier that Ofgem had some concerns in this area
2 and did introduce what they loosely called the sliding scale approach which was
3 rewarding companies for accurate forecasting. And that allowed the incentive for
4 delivering more efficiently and keeping the returns, but only if it was reasonably close to
5 the forecast, and if it was a gross saving the returns allowed were much less. So there's a
6 kind of sliding scale of how close the company delivered to the forecast but without being
7 rigid in the sense of recognising that there's bound to be a variation at the out-turn stage.

8 **CHAIR:** Continue with the presentation.

9 **MR HEAPS:** Yeah, I'll now just explain the rationale for the proposed levels that we set and
10 then leave time for discussion on that. The proposed materiality levels have been set at
11 for large projects \$1.5 million and above and for minor projects below \$1.5 million. In
12 the proposed approach there are aggregated project groups, and they were considered to
13 be a maximum of \$10 million for each programme or aggregated project group in any one
14 year with an individual total limit of \$1.5 million per project. So that's the total value of
15 the project, \$1.5 million and then \$10 million expenditure on an aggregated project group
16 within one year. Those are the proposed materiality levels.

17 We considered the settlement approach, so it's worth just looking at what the
18 current position is. The settlement approach was that enhancement projects have a
19 materiality level of \$1.5 million and replacement and refurbishment projects don't
20 currently have a limit under the settlement agreement. Individual assessment of large
21 projects, there's about 40 a year, around about 20 IST and 20 RR&E that are subject to
22 sampling and individual scrutiny in the below 1.5 - in the RR&E projects. So that's the
23 current approach under the settlement.

24 The large project materiality level, I'll just talk about the rationale for that. So as
25 we discussed earlier it's considered that all projects and programmes should be subject to
26 an appropriate commensurate analysis and testing. And I emphasise the word
27 'commensurate' because I think that's pretty central to how we see investment tests
28 applying.

29 So the materiality level actually sets the level at which individual regulatory
30 scrutiny occurs. So the view that all projects should have commensurate level of analysis
31 and testing, even \$50,000 projects there should be some process that's gone through
32 before spending that level of money, which of course you would say is different to the
33 hundreds of millions of dollars. So there's a range of tests that you would apply and we

1 would expect them to be commensurate with the size and complexity of the project. And
2 so the materiality level actually sets the level at which regulatory scrutiny occurs of each
3 of those individual projects.

4 We also took into account the fact that Transpower has some pretty massive
5 projects but that shouldn't mean that good planning analysis shouldn't also occur on the
6 smaller ones. Large projects should have a greater degree of certainty than minor projects
7 because of the level of planning which is undertaken for them. If there's only one
8 category, so if we didn't have large and minor projects then, as I mentioned earlier, it was
9 considered that the large projects could swamp the bucket, making the facility to be able
10 to substitute, as I'll discuss later, within the bucket actually meaningless. So, for example,
11 the cancellation of one large project could provide quite a massive opportunity to relieve
12 efficiency pressure on all the other projects in the bucket.

13 The following slide summarises key points considered when proposing its
14 materiality level of large projects. So the key considerations were the appropriate size
15 and value of the project to require individual assessment, the level at which an incentive
16 for accurate planning at an individual project level is desirable, the likelihood of multiple
17 options for analysis, the size of projects that are likely to be contingent and I'll talk about
18 contingent projects and how we've defined contingent projects later but it's very similar to
19 the AER approach; the ability to group projects into programmes and the number of
20 projects that would be required to be assessed through a commensurate investment test.

21 So those were the key considerations and we also undertook some analysis using
22 historical data. So if you look at this chart - I think I'll stand up for this actually. So this
23 chart is based on the 2009/10 capital expenditure projects. You'll notice we've excluded
24 the Part F projects because, of course, this would be extremely small and this would be
25 very high, you'd hardly see the chart if you exclude(sic) Part F projects. There is one
26 project which is about \$37 million and that was the replacement synchronous condensers.
27 So we have one very high project and then a lot of smaller projects.

28 So that gives you some idea of the scale there. And there's obviously a distinction
29 there between the large projects and the others. But if we take these synchronous
30 condensers out so we've excluded Part F projects and we've excluded the \$37 million
31 synchronous condenser projects, and we considered that there was still quite a difference
32 between the homogenous large number of small projects and quite a few of the larger
33 projects at the end.

1 And so again we looked at well where would be a reasonable point to actually say
2 whether you have a homogenous group or whether you have some differences. And again
3 this was because we felt that projects in this area where deferred or changed substantially
4 could actually swamp anything in here just because of the large size of them.

5 Looking at under \$1.5 million, so if we took the \$1.5 million materiality limit,
6 then you can see - we considered that that was quite a homogenous group, whilst you still
7 have a reasonably steep curve here. We considered that actually any deferral or changes
8 to those projects could be handled within the whole bucket. So we considered that that
9 was reasonably homogenous.

10 This slide shows the analysis that we undertook on what we would expect for the
11 number of projects that would fall under ex-ante, so prior to the RCP, how many projects
12 would fall under individual regulatory scrutiny. So again we use the 2009 combined RRE
13 and IST non-Part F projects. And the red line is a dollar value of those projects, the blue
14 line are the number of projects, and then we've got that you can pick out different
15 materiality values where you set them, and that will give you the number of individual
16 projects that fall under scrutiny and the millions of dollars that are contained within those
17 projects.

18 So if you had a \$20 million materiality limit, as I explained before, it's one project
19 which is the synchronous condensers which is around about \$37 million, so that's the
20 synchronous condenser projects so you'd only have subjected one additional project to the
21 Part F projects for regulatory scrutiny. And that's the same down to \$10 million. At
22 \$5 million you're moving to 10 a year and then at the \$1.5 million limit you're somewhere
23 between 40 and 50 projects a year, again based on the 2009/10 financial year forecast.

24 So that's the sort of level that we're currently scrutinising each year. There are
25 about 40 projects that are subject to individual scrutiny currently under the settlement
26 agreement. And we considered that the \$1.5 million was no change on that. Of course
27 what will happen is that because of the five year period that scrutiny will have to take
28 place ex-ante, so this is just one year's figures, 40 to 50 projects. So of course you have to
29 take into account that you're going to be doing five years and not just one.

30 Now that isn't just a straight multiplication of five years because of two reasons.
31 One is that there's a number of projects that continue over two years, or over one year
32 period. And so that would reduce the number that you would expect, it wouldn't be a
33 straight multiplication of five. And the other reason is because quite a number of the

1 projects that we would expect to see in this category could be included in programmes, so
2 they could be included in aggregated groups of programmes, up to \$10 million. So again,
3 that would have the effect of reducing the number of projects that you would see across
4 the five years.

5 But it is acknowledged that it is going to be a substantial number of projects that
6 have to be scrutinised ex-ante, but it has to be done once. Rather than doing it over five
7 years, as will be the case under the settlement agreement, it's actually done once and then
8 the allowance is set.

9 So after balancing the trade-offs and considering the characteristics of the project
10 and the review burden it was concluded that the \$1.5 million materiality level was a
11 reasonable position, and that was proposed in the emerging view. I think at this point it
12 would be good to hear and have a discussion on that materiality level.

13 **CHAIR:** The discussion will be led by Associate Commissioner David Caygill.

14 **MR CAYGILL:** Okay, so we thought we might do this in this way. We've identified a couple
15 of issues that we thought we'd pose and maybe get your response relating to the issues
16 that Bill's outlined. The level of flexibility, well, the two issues are the appropriate
17 cut-offs for each type of capex and the level of flexibility for Transpower to substitute
18 approved capex within those levels. If we deal perhaps with the substitution issue first
19 and then come back to the cut-offs threshold issue.

20 In relation to substitution the Commission is of the view, the preliminary view
21 obviously, that the nature and characteristics of relatively minor capex typically allows
22 maintenance replacement and refurbishment programmes to be set out well in advance of
23 need. Overall levels of these programmes of capex, as Bill has described, should be able
24 to be reasonably accurately forecast years in advance. But in many cases the individual
25 pieces of work that may make up this programme aren't going to be known until closer to
26 the time of need.

27 The Commission considers that for this reason it should continue to provide
28 approval for the category of minor capex as a whole rather than for individual projects.
29 Capex within the category of minor projects therefore would be able to be substituted
30 freely between projects. But the justification for allowing full substitution between types
31 of expenditure, such as IST and on the other hand refurbishment, is less clear.

32 So our questions here are, firstly do you consider that Transpower should continue
33 to be able to substitute minor capex without restriction, or that should there be some

1 limitation on the ability to substitute based on the type of capex.

2 And secondly, is there any reason why Transpower should be able to substitute
3 approved IST projects with, say, replacement or refurbishment type projects within the
4 minor capex category?

5 **MR STRANGE:** Perhaps I can make an overall comment and then Richard can get into the
6 details. But I should register how far apart we are on this in terms of materiality. And if
7 we read the assumption it means that over a three year programme, if we do a substitution
8 of a \$1.6 million circuit breaker replacement or something, we effectively have to come
9 back and sort of clear that through a process.

10 Compare that to the Queensland situation, compare that to the CEO's own
11 delegated authority, and compare that to the discussion we had yesterday about opex,
12 which is a big bucket, and we can substitute pretty freely. I mean we go through a pretty
13 tight scrutiny with the board etc, but I think my delegated's authority \$5 million providing
14 the overall capex is in budget. And the nature of 2 and \$3 million budget is it's used
15 reasonably widely, and we tell them after the fact etc, but we are going down here to a
16 granularity which I really am very very uncomfortable with. And I would say look at,
17 you know, look at the other extreme of Queensland.

18 A couple of comments before Richard gets into the detail. We're sympathetic to
19 the view that IST versus good expenditure are two quite different categories. I don't think
20 we've thought about it a huge amount but perhaps Richard can discuss. Substitution
21 between those is certainly open for question.

22 But if you go back to what really is a major project, our view with things which
23 would be contingent projects outside, the number's probably - it will depend on the nature
24 of the project. We would suggest that the number is probably \$50 million but there'd be
25 an option between the Commission and/or Transpower to say there are certain types of
26 projects, probably down to \$20 million, which have particular impact on the market or are
27 of a particular nature that we should treat those as contingent too, or because of the nature
28 or because of their uncertainty.

29 And we would predict, I mean if we're getting more than, say, three or four
30 contingent projects a year we're going to have real trouble, we just couldn't process those.
31 I don't know how many we're doing with the EC at the moment, but I mean it's a pretty
32 high loading to be more than five or six.

33 Those are my sort of top level comments, but I would say we're going to come

1 back and our submissions are going to be for a move much more towards good practise in
2 Australia, which I think is working, and what we see as really a pretty interventionary and
3 unnecessarily detailed and inflexible approach, which in good faith has been put up by the
4 Commission.

5 **MR FLETCHER:** I don't necessarily want to go down to too much detail until we get into the
6 detail. But I think there's a distinction needs to be made between the threshold for what is
7 scrutinised and then approved and then capped and not allowed any substitution against,
8 and the threshold above which the Commission would expect a more rigorous governance
9 and planning and consultation process, which will be part of the role of the Commission
10 to review that we'd applied that. So I don't think that you can just look at a threshold in
11 isolation from what you're actually going to do with the projects at above or below that
12 threshold.

13 **MR CAYGILL:** Perhaps one other question then about substitution. In respect of large project
14 capex, our preliminary view is that we should continue the current process, which is to
15 say that Transpower isn't able to substitute one approved project for another, and we just
16 simply wanted to give you the opportunity of saying whether you agree that that's
17 reasonable or you don't, in which case we'd be interested to know why.

18 **MR FLETCHER:** I think I'd just refer back, if the threshold was at the level that Patrick
19 outlined and it included a certain type of project then that would be outside of the
20 revenue, individually have a maximum allowed cost associated with it, and again it comes
21 back to where the threshold is.

22 **MR STRANGE:** And the nature of those big projects, I mean are in many ways outside our
23 control, they are driven by where market investment goes and generation in New Zealand,
24 or by, you know, particular uncertainties about major load growth or something. So we
25 think those are appropriate to be outside. But I'll say again, if we're considering sort of in
26 a three year reset more than a dozen or more projects in there, I think we've created big
27 problems for ourselves.

28 **MR CAYGILL:** So maybe, Mr Chair, if I come on to the threshold question then we can open it
29 up to others. In relation to the threshold levels, the Commission seeks Transpower's
30 views on, and the views of others, on what level of expenditure would be appropriate to
31 define the cut-off between large and minor projects.

32 It's our view that the decision on this matter needs to take into account a number
33 of factors, such as the number of projects being submitted for individual approval and the

1 practicalities around this. It should also take into account what size of project should
2 appropriately receive additional regulatory scrutiny. Yet another consideration is the
3 lessened incentive for Transpower to manage minor capex efficiently if Transpower was
4 not to undertake a number of significant projects that have been allowed within the minor
5 projects expenditure allowance.

6 Ultimately this will likely be a judgment call, but my question is approximately
7 what size of project do you consider is too large to include in the minor project
8 expenditure allowance within which substitutions would be allowed?

9 **MR FLETCHER:** I'll just answer that briefly. I think this issue of what constitutes a large
10 project and therefore what requires more scrutiny has been on the agenda for 18 months
11 or so, and I think we made a proposal to the Minister as part of the GPS consultation that
12 the cut-off should be at \$50 million.

13 But again it comes back to John's comment as to it depends on the nature of the
14 project itself and the complexity of the project and the need for that project to be
15 consulted on more fully. So you could put a rigid threshold or you could put a criteria
16 against that. I think the GPS itself signalled \$20 million as being the threshold, and I
17 think that's consistent with what Patrick's just indicated.

18 Again it comes back to the practicality also, I mean on a number of projects which
19 practically can be processed through the system both from Transpower's point of view
20 and the Commission's point of view and the customers themselves in terms of
21 undertaking that detailed scrutiny on a year, and I would say that the sort of numbers
22 Bill's talking about, which is 40, 50, 60, from our point of view is totally impractical and
23 unnecessary in fact.

24 **MS PROCTER:** Could I just make a point? At the moment through Part F we are putting on
25 average the last two years around seven or eight projects up a year, which requires a
26 regulatory overhead as it is. Under this proposal we'd be looking at at least an increase to
27 50 projects per year, which I just think would be a very large step increase in terms of
28 your regulatory overhead.

29 **MR HEAPS:** In saying that, have you taken into account the point that the Commission made
30 about commensurate with the size of project?

31 **MS PROCTER:** Yeah, that's another point I'd like to raise. It's in the current rules at the
32 moment, commensurate analysis. The GIT is a very prescriptive test, it's very difficult to
33 actually define what commensurate is. And it's something that we've struggled with for

1 the last four or five years, that we actually find that the level of analysis and the level of
2 analysis that's required by the Regulator as well, it's very unclear what commensurate
3 means.

4 **MR HEAPS:** However, if commensurate didn't impose any additional burden on Transpower,
5 other than what you would expect to be good planning, good governance processes,
6 would this then be an issue?

7 **MS PROCTER:** I guess you'd have to be quite prescriptive about what commensurate meant
8 then.

9 **MR STRANGE:** You get to a governance point and we've got to look at the overall governance
10 and what is the board's role, that's exactly what they're doing. So, you know, to answer
11 the Associate Commissioner's question I do think the cap should be set at 50 personally,
12 it's been proposed by some market participants, but with some guidelines, so that things
13 as low as 20 at our nomination or at the Commerce Commission's nomination could go in
14 that.

15 You know, there are some like a synchronous condenser replacement which,
16 unless the world turns upside down, we need those synchronous condensers for the next
17 50 years in Wellington it's fairly routine. But there might be a \$22 million enhancement
18 in the Wairarapa which is hugely dependent on wind location, has quite a big impact on
19 values for generators, and is also highly contingent because we don't know when the wind
20 guys are going to get there. We might well propose that that one go into a contingent
21 analysis.

22 **MR CAYGILL:** Can I put a slightly different way of thinking about this to you. It strikes me,
23 thinking about the Australian approach, that you have there two processes. They
24 recognise each other but they are separate, indeed they happen at different times. You've
25 got the process for setting the total amount of capital expenditure that will be built into
26 the regulatory base which will in turn set the amount of revenue that Transpower's
27 allowed to earn. And then separately from that you've got a process relating to individual
28 projects over a certain size which is essentially designed to answer the question, was an
29 appropriate weighing of costs and benefits done in relation to these individual projects.

30 I wonder whether there aren't in fact two different sets of objectives here. The
31 first being to make sure that the total amount of revenue that Transpower earns is not
32 unfair to customers, but it seems to me that assessing the cost benefit of significant
33 projects is not just about fairness to customers. Typically there might well be other

1 parties who have an interest in whether that enhancement occurs. So yes, they're
2 interested in not being able to charge, but they're interested in other things as well. They
3 might be generators or they might be a provider of an alternative means of meeting the
4 particular need, there's an interest in whether the alternatives were assessed fairly.

5 So I wonder whether the right way of thinking about the threshold that should
6 apply to the projects to which a cost benefit test should be applied, grid investment test to
7 use our current terminology, isn't a question like at what point are the interests of third
8 parties likely to be material? Does that make -

9 **MR FLETCHER:** It does make sense, and I do agree with your summary, but I don't think
10 we're looking at a threshold above which a grid investment test or a cost benefit test
11 would apply. I think even if the threshold was set, for example, say at \$20 million,
12 \$30 million, even the projects below that and within the revenue envelope would still be
13 subject to some form of cost benefit analysis, subject to the type of investment it was, in
14 the same way that there are small projects which go through a lesser process in Australia.

15 So from my point of view, and I'm just, I guess, talking off-the-cuff, I think
16 irrespective of where you set the threshold, it doesn't necessarily change the way that
17 Transpower would progress and justify the projects either to the board or externally, it's a
18 question of what you're including in the revenue envelope up-front and which ones you're
19 not and which ones you're requiring a more detailed process to go through.

20 But I do agree, I think the two issues that you raise, there is the revenue setting
21 process and then the process for progressing the projects are the two kind of - I agree with
22 that.

23 **MR CAYGILL:** If the purpose of ensuring that a cost benefit analysis has been properly
24 undertaken, if that purpose has already been achieved, in relation to projects above the
25 threshold, whatever the threshold is, what additional purpose is served by subjecting those
26 projects to scrutiny by the Commission?

27 **MR FLETCHER:** Sorry, I missed the point there. I think I agree with you, I don't know.

28 **[Laughter]**

29 **MR CAYGILL:** It was a question, it wasn't a point. You suggested a second ago that the cost
30 benefit analysis would in any event have already been done, it would have been done
31 even in relation to projects below the threshold. So my question is well, if it's already
32 been done and tested in some way, what else is the Commission looking at?

33 **MR FLETCHER:** The Commission's looking at - again it's a question of what level the

1 Commission interposes itself. The Commission would be satisfying itself that
2 Transpower had the processes and the policies and the procedures in place that certain
3 projects went through a certain route and certain governance and a certain approval, and
4 that included a cost benefit analysis. And you wouldn't necessarily be looking then at
5 individual projects and saying has each of these projects over this threshold gone through
6 that process and then capping each project and not allowing substitution between those
7 projects.

8 So it's what you're actually doing with it. You're satisfying yourself that the
9 business is managing the business appropriately, it's got the processes in place and it's
10 applying those processes in the forecasts that it's putting forward. And as Merryn said at
11 the start of the period they will be forecast. But when they're progressed and actually
12 delivered within the period, that detailed process would be applied to them. And that
13 would be checked ex-post at the end of the period that that had happened.

14 **MR STRANGE:** I think we agree with you, David. But I come back to the, you know, sure
15 there are some contingent projects and I think there'll probably be a dozen over the
16 three year - and they will invariably be above 20 and I think most of them will be above
17 50, there won't be that many - Pole 3s don't come along very often.

18 But the rest of them fundamentally you sit and you look at a programme in quite
19 some detail at the start of the three year session and you say, yeah, Transpower we've
20 gone through that and that's a reasonable amount of money to spend, and then really you
21 say to the company I mean what they're saying in Queensland really is well, you've got a
22 responsibility for your standards of service and things, we reckon that \$278 million that
23 we approved is reasonable, and if you want to substitute and move as you go through,
24 that's your business because you've got the latest information.

25 What we are adding in the New Zealand system, and we've accepted at least for a
26 period is something they don't have in Queensland, which is an ex-post look, which is
27 your safety valve. But what's being proposed here, as we see it, is sort of any change over
28 \$1.5 million has to go back to the EC through a process, and also not substitution between
29 categories, taking IT away. I just think we're losing the plot.

30 **MR DEVINE:** Can I just ask a question of clarification. The Australian scheme, they agree the
31 revenue and that's based on a series of proposed projects in various states of form, close in
32 good information, further out lesser information. As I understand the proposal here we
33 will have around 2,000 projects pre-approved before the revenue is set. That's, as I

1 understand, what we're proposing.

2 **MR HEAPS:** No, I'll explain later when I go through the minor projects one.

3 **MR DEVINE:** But all big projects would be pre-approved before they're accepted into the
4 revenue one?

5 **MR HEAPS:** No, I'll explain that on the large projects ones when I come to the next one. But
6 really there are, if you like, three subcategories. So there are the projects that are
7 pre-approved ex-ante before the regulatory control period.

8 **MR DEVINE:** Whether they've started or not?

9 **MR HEAPS:** Yeah, that's correct, but they're approved forward expenditure during the
10 regulatory control period, they've passed all Transpower's approvals and gone through a
11 commensurate investment test, and they've also been compliant with Transpower's other
12 policies such as procurement strategies and those sort of things.

13 The second category would be the contingent projects, so they're the projects that
14 you were aware of before the RCP and you can put forward a list of those contingent
15 projects and the triggers. And that they will be, if they occur during - they do actually
16 occur, the triggers fire and they are undertaken during the RCP then they will be accepted
17 in the wash-up.

18 And then there are projects which I've called emerging projects which will emerge
19 during the RCP that you weren't aware of prior. And again they will be reviewed and
20 accepted if they've passed Transpower's processes and procedures and are compliant with
21 policy, but there will be, as I'll discuss in a bit of detail later, there would be some sort of
22 financial consequence to Transpower of doing that. And it's just about when the
23 expenditure would be included in the regulatory asset base and flow through to the MAR
24 and prices so when you get a return on it.

25 So actually the way that it's structured is there are those three, so we considered
26 that that gives Transpower quite a considerable degree of flexibility. So you can have
27 projects that are pre-approved, contingent projects, and projects that just emerge during
28 the period.

29 **MR DEVINE:** So at the start of the three year period we don't know what our revenue will be
30 for the period?

31 **MR HEAPS:** No, that is set as the allowance for the projects that are accepted. So what you
32 won't know is what the emerging projects are because you don't know what those
33 emerging projects are.

1 **MR DEVINE:** Or the contingent projects?

2 **MR HEAPS:** That's right.

3 **MR STRANGE:** Or the projects that don't go ahead, it might have been all the way through an
4 approval.

5 **MR HEAPS:** Well the projects that you don't go ahead with, so the planned projects that are
6 approved that you don't go ahead with would be included in the wash-up, the ex-post
7 wash-up, so that would be a claw-back.

8 **MR STRANGE:** I'd be interested in hearing the experts' view on it perhaps, but I mean I think it
9 is a view of network planning that's sort of a little way away from reality. And what
10 happens when you're doing out a third year project is the projects in the third year, you
11 have all these enhancement projects; but then one of the contingent projects comes along
12 and upgrades all 110 kV, we decide to do a massive upgrade of a 110 kV system in the
13 Waikato, which is one of the big issues facing us; admittedly quite a number of the
14 underlying projects, if we haven't upgraded the 110 kV system in the Waikato, will fall
15 away and vice versa. So I just get a sense that this is just a little divorced from reality, to
16 be blunt Bill. But I mean with your guys' permission I'd be interested in the experts'
17 view.

18 **CHAIR:** Do the experts have a view?

19 **MS YORK:** I've got a couple of comments I might usefully contribute to your discussion. I
20 know the regulatory test in Australia is a little bit separate from the revenue setting
21 proposal, as David's rightly pointed out. But the thresholds that that test is applied to
22 were reviewed a couple of years ago. Prior to them currently being set at 5 and 20 they
23 were set at 1 and 10. And part of the discussion around the increase of those thresholds
24 was not only how many projects there are and things like that, but about what you could
25 get for that amount of money and what real options there are, what real alternatives there
26 are.

27 So if you're looking at a threshold around \$1.5 million, and I don't know what
28 transmission assets cost in New Zealand, but we can't construct a capacitor bank at 110
29 kV for \$1.5 million. So if we're down at that level of asset, you know, what alternative is
30 there to a cap bank? You know, there might be an SVC or synchronous condenser, or,
31 you know, all these are way higher.

32 So one of the reasonings that was in the debate about the thresholds in Australia
33 was what are the real alternatives at that level. And does putting that out there and

1 looking for alternatives actually add any value to the process. Even at \$20 million you
2 can't establish a bulk supply point, a new bulk supply point as we refer to them, so a new
3 kind of injection into the distributor's network for \$20 million. So if all their transformers
4 are overloaded, supplying a particular area, you can either add more transformers to an
5 existing substation or establish a new one, and there'll be pros and cons of those.

6 And so long as that is going through a proper process of joint planning and we're
7 looking at what are the alternatives with the distributor, because if we put more
8 transformers in at one location, you know, they might have massive fault level problems
9 down in their network so we actually need to establish a new one and radialise, you know,
10 what are the real alternatives that you're actually comparing and what value is additional
11 scrutiny and investigation adding to the ultimate decision.

12 So they were some of the things that were considered in setting the thresholds for
13 the regulatory test when they were reviewed. I'm not sure whether somebody's got any
14 alternatives for a cap bank.

15 **MR CAYGILL:** Was that issue, that examination you've just described, was that published? Is
16 that a process that led to a report that we could look at and consider its applicability here?

17 **MS YORK:** It was a rule change proposal because those thresholds were actually in the rules.

18 **MR CAYGILL:** Yeah.

19 **MS YORK:** So there was a rule change proposal put forward because that's the only way we
20 could change them, and there was a full consultation on where they should be set, what
21 was proposed, how they reached the reasoning for the thresholds that were set. So all that
22 would be on the AEMC's website under rule change. It was a couple of years ago.

23 **MR CAYGILL:** There's some material there we can look at.

24 **MS YORK:** Absolutely. The other comment I just thought might be useful is about the revenue
25 determination process and the sampling of projects. I actually ran Powerlink's last
26 revenue reset process as the Project Manager, the team leader, and I can't recall the exact
27 numbers off the top of my head about how many projects were sampled for detailed
28 scrutiny in the forward projection, but I think it might be, you know, 40 to 50 in total
29 across the whole range.

30 And I don't know how the AER selects them, but they certainly look for a
31 selection across the different drivers and the different dollar levels, so that they can test
32 that not only are we applying good governance to large projects, but also good
33 governance to small projects. So just as Transpower are indicating they do some kind of

1 analysis and justification for each and every project that they approved, commensurate
2 with the level and different people can approve different projects, I can approve
3 \$2 million worth of capex so, you know, I'm not the Chief Executive or anything like that.
4 So, you know, \$1.5 million is not - we probably wouldn't put the term 'major' in front of a
5 project that's \$1.5 million, that's pretty small.

6 But, you know, it doesn't mean that the organisation should be able to get away
7 without applying good governance, they need to apply good governance and that is
8 appropriate, it is charges going through to consumers. So you need to be comfortable that
9 that is actually occurring. But not huge numbers of projects sampled in the revenue
10 determination process, it really is a sampling process. If you want to know the exact
11 numbers I can look that up, but I mean you could count them in the consultant's reports
12 from our revenue determination if you wanted to, and the level of scrutiny that they look
13 at in each project is documented in the consultant's reports. So it's quite intense on each
14 project, particularly the large ones, but they are looking for whether we followed our
15 process.

16 **CHAIR:** Mr Scott?

17 **MR SCOTT:** Thank you, I won't duplicate the helpful comments from Merryn. I think it's very
18 helpful to think about the number of projects that are referred, you know, because that
19 reflects the effort both within the Regulator and on the company side in bringing forward
20 projects for review. And something, you know, if we're talking numbers of 40 or 50, if
21 that's in a year that's one a week, it doesn't sound practical to me, especially when we are
22 talking in the scale of things of relatively minor projects.

23 Now it could be that in a period of relative stability on investment, incremental
24 growth, fairly large numbers could be handled and cycled through because they'd be very
25 similar, but I do think it warrants some fresh consideration here looking to the future. I
26 can only see larger projects, more complex projects and new technology coming through,
27 much more use of power electronics, much more integration between communications
28 and ICT and the power grid. That separation we've had in the past is fast disappearing
29 when I see projects elsewhere.

30 So the need to bring a level of comfort for the Regulator, I think, would be best
31 done by setting thresholds, or defining projects to bring through a representative sample
32 in, you know, a handful, and that that test really looks for has good governance been
33 applied in the company rather than kind of repeating the whole process. Because my

1 view is that when you get competent people together they can always come up with a
2 different way of analysing something, they can always ask more questions about the
3 scenario assumptions and ask for the whole thing to be reworked, but in the bigger scale
4 of things I do wonder how much value comes from that.

5 And it's back to my question I proposed earlier, make the board accountable, you
6 know, probe and challenge the company here. And if you don't feel that their cost benefit
7 techniques are right or their risk assessment in new technologies is right, press them on
8 that and get them to do it. Don't repeat it yourselves because you then end up with just
9 that painful process of reconciliation between different people's views all the time.

10 **MS BEGG:** Could I just ask the two experts, do you think there should be any constraints on
11 substitutability for the large projects? Should it be fully flexible or should there be some
12 size related constraint? It partly comes to this idea of headroom that if you had a large
13 project which you substituted out that basically could relieve all the constraints on the
14 smaller projects. I just wondered if you had any thoughts on that issue.

15 **MS YORK:** I'm not going to say what my personal opinion is but I'll try to talk through some of
16 the ways in which the Australian system works that might inform your considerations
17 within yourself. The Australian framework is really built around three different incentive
18 arrangements, one is the capex, one is the opex and the efficiency benefit sharing scheme,
19 and the other one is the service standards. So if a large project is proposed and it's really
20 genuinely needed, then if we don't do it we're not going to be able to meet our service
21 standards. So I think the substitutability needs to be considered in the context of the
22 whole regulatory framework, not just solely looking at capex.

23 And it's the same with opex, if you're planning on replacing some equipment that's
24 pretty ordinary and is costing you a lot in maintenance costs and you factored that into
25 your opex forecast then if you don't do it you're going to get hit in your opex because your
26 opex costs are going to be higher. So I think if all the incentive parts work together then
27 there shouldn't be just an incentive to not do a large project so you can do a bunch more
28 smaller ones, or if you can manage that and still strike the right - if the business can strike
29 the right balance against all the incentives well that would be the right decision.

30 So from my perspective I think the complete substitutability is how the incentive
31 is meant to work. That's certainly the AER's view. I mean I don't think anybody really
32 isn't going to do all their IT, they're not going to not replace their desktops and laptop
33 computer and their servers and things like that. So substitutability between IT and

1 network projects, I mean the history would say that doesn't really happen a lot.

2 The other thing I think that impacts on that is that the actual history is obviously a
3 relevant factor in setting revenue allowances or allowances for the elements going
4 forward. So it's about that revealing the true costs. If you justify in your IT programme
5 that you need, I don't know, I'm just plucking a number out of the air, \$10 million a year
6 for IT expenditure and you only ever send 5 then in the next period you're only going to
7 get 5. But if you really need 10 and you only spend 5 then you're going to have a much
8 harder effort to make a case to jump it up, if you've got 10 and you've only spent 5.

9 So it is about the incentive framework, getting the business to reveal their true
10 costs and their true needs, or working together.

11 **MR SCOTT:** It's an interesting question, you know, cancelling one large project and so on. My
12 experience was it didn't happen really, and as long as you've got a good ex-post
13 mechanism, you know, if there is some exceptional case I think there's usually a way of
14 unpicking it, you know, afterwards. I'd caution against a lot of complexity, dividing
15 things up into bands and types, that's just overhead really. I think you can provide
16 yourself with a safety net for the rare cases when it arises.

17 **CHAIR:** Is there any other questions? Transpower or the experts?

18 **MR WALL:** I don't actually have a question - Ashley Wall, Genesis - but as a statement I think
19 the \$1.5 million is ridiculously low. The regulatory burden from it would be huge and it
20 would certainly be a job for boys for the consultants in the world running around
21 challenging Transpower on all of these projects. I mean the business should be able, as
22 our experts here have said, if the business has got good processes and controls inside
23 itself it will be making the right decisions. It will be justifying these things, they must go
24 through an approval process.

25 There's a huge incentive for them not to spend the money that they have been
26 given up-front, because if they don't spend it then they capture that benefit in the
27 regulatory control period. Service levels are there to make sure that they do spend
28 appropriately, the grid reliability standards are there to ensure that they invest
29 appropriately. I think this level of burden would be huge and unnecessary.

30 **MR CAYGILL:** Sorry, Mr Chair, I sort of feel compelled to ask this question. And I will try
31 and do it in the form of a question. Is there any other explanation for the \$1.5 million
32 than the fact it was the figure nominated by Transpower in the settlement agreement.
33 That is to say it was the figure that Transpower volunteered as the threshold that it would

1 apply at the time in relation to Part F?

2 So I mean this is a genuine question. Have I got this wrong when I say that my
3 understanding of where the \$1.5 million came from, is simply that in the settlement
4 agreement it was the threshold figure that Transpower indicated it would use as the point
5 at which it would submit projects to the Electricity Commission for approval under the
6 good investment test. In return in the settlement agreement the Commerce Commission
7 agreed that if the EC had approved a project in terms of its rules, then on being notified of
8 that approval it would agree to roll the figure into the regulated asset base.

9 I'm not for a moment arguing that \$1.5 million was ever the right figure or should
10 continue to be the figure going forward, but I mean it's got no science to it, it's got a piece
11 of history. And have I correctly stated the history or have I got that garbled in some way?

12 **MR FLETCHER:** I think you've correctly stated the history. At the time the Commission was
13 looking for oversight of all our capex and at the time the EGRs required certain
14 investments to go through the grid investment test process. The question was asked did
15 we apply a threshold as to what we submitted through to the Electricity Commission for
16 approval and at the time we said well, really very small ones we don't because we've got
17 so many going through at the moment so it's generally these, but they were the
18 requirements at the time under the current EGRs. And I think, as Patrick mentioned, we
19 obviously had an issue with the one size fits all approach of the EGRs, but that's a
20 different matter I guess.

21 **MR STRANGE:** And it was before most of our time, yours too.

22 **MR CAYGILL:** Yes.

23 **MR FLETCHER:** Not mine unfortunately. **[Laughter]**

24 **MR STRANGE:** I'll talk to you about your salary review later. As I understand it was really the
25 split between the Part F and the non-Part F, which I find somewhat artificial because they
26 all go together. But we're now talking about applying a 1.5 even to the non-Part F
27 projects, so it's not quite horses for courses. But I think that was the history.

28 **MR HEAPS:** I think again it might be worth just thinking of Genesis' comments as well. Just to
29 summarise, that the \$1.5 million materiality level wasn't expected - because remember I
30 was presenting the long view - it's not expected to mean that projects above \$1.5 million
31 would be subject to full grid investment tests, that it was always considered that it was
32 going to be a commensurate. And it was considered that all projects should undergo
33 commensurate analysis and gain levels of approval that are commensurate with that

1 project.

2 The other side of that is the level of regulatory scrutiny that is applied, and it was
3 considered that the regulatory scrutiny would be also commensurate with the size of the
4 project. So obviously the major ones that are currently included under Part F would be
5 subject to more regulatory scrutiny and assessment than the ones at the \$5 million level.

6 So the whole scale was meant to be commensurate. It then just says, it comes
7 down to well, what would you consider the level of project at which the Commission
8 should have individual scrutiny rather than including the project in a whole bucket. And
9 when we looked at the different levels for the number of projects it was considered that
10 \$1.5 million was a reasonable sum of money, you know, even taking into account the
11 range of spend that Transpower has.

12 So \$1.5 million was considered to be a reasonable sum of money, but that any
13 evaluation of projects around \$1.5 million, \$5 million, the evaluation would be very much
14 commensurate, which would involve looking at whether Transpower had actually applied
15 its policies and processes and the investment tests cost benefit analysis sufficiently for
16 that, to approve that expenditure. So I think we're sort of a bit hung up on what we
17 currently have under the grid investment test and what is envisaged for the future.

18 But it was also considered that there is the high number of projects that potentially
19 would fall in for an annual review, but that that wasn't different than the current level of
20 analysis and individual project scrutiny that's currently carried out. So we considered that
21 there wouldn't have been an increased burden on Transpower but there would have been
22 an increased burden on the Commission to do the individual analysis in the year at the
23 point of setting the allowance.

24 The other key issue that we considered we've canvassed quite a bit in there, is
25 around the substitutability. And it was considered, as I said before, that there are some
26 reasonably large projects that could be deferred and we have seen large projects being
27 deferred, from year to year, that would swamp the bucket of minor projects. So again
28 when we did the analysis on a historical basis it was felt that the \$1.5 million level was
29 reasonable to avoid the swamping of those, the distortion of any deferral of several
30 million dollar projects from the ones in the bucket.

31 But when I come to describe the approaches we've also tried to build in flexibility,
32 so whenever Transpower has a requirement to substitute it has an opportunity to do that.

33 **CHAIR:** Right, I am mindful we still have a lot to get through and we're slightly behind in the

1 agenda. What I propose is that I'll ask Bill to do a Commission presentation on the
2 proposed approach for large projects and RCP2, then we'll adjourn for lunch and
3 reconvene with a discussion after lunch. So if I could hand over to Bill.

4 **DR BERRY:** Actually before we start this can I just ask, I notice that Mr Matthes was
5 potentially expressing a view on this materiality question. It just seems to me to be
6 material to have some idea of MEUG's view, if you have one, Ralph, that you could share
7 with us on materiality.

8 **MR MATTHES:** Yes, thanks Mark. I actually signalled just before David started talking and in
9 fact David took my point, which was the \$1.5 million is the status quo and that was my
10 thinking. If you can demonstrate why we should shift from that in this what I see as a
11 transitional period; I was very interested to see where Powerlink is now, maybe we'll get
12 there in five years time, there's quite a bit of capability and I think confidence required by
13 the parties around this table to get there and, you know, perhaps that's where we need to
14 go.

15 It's also just a matter of practicality about the \$1.5 million limit. I heard
16 Transpower say that it might involve another 50 projects going up for additional
17 bureaucracy, but in my mind that bureaucracy should already be embedded in
18 Transpower, and all we're asking is to have a bit of transparency around it. If there's a
19 few sort of no brainers in there let's just see it. I don't think it is quite as simple as an
20 extra approval per week. These will be just batch processed. All we're asking for is a bit
21 more transparency.

22 **MR STRANGE:** We're quite happy to provide the transparency, but I think the regulatory
23 experience would argue, and I'd be interested in Merryn's views etc. I mean when you go
24 beyond the company's processes and you put it up and you, you know, you have to
25 respond to challenges from MEUG etc and various also self-interested parties, I'd never
26 say MEUG was self-interested, there is a regulatory burden. History around the world,
27 we're quite happy to be transparent, we're trying to put everything up on our website so
28 everything's there. But to go through a batch test to take it out to a Regulator to go
29 through consultation etc, show me a regulatory system in the world where that doesn't
30 impose a significant regulatory burden is my challenge, and I think it's naive to think it
31 doesn't.

32 **MR FLETCHER:** I think again we're kind of mixing the process that we go through to develop
33 projects and the approval, the ex-ante approval of the revenue, which the framework is

1 designed to do.

2 **CHAIR:** Apologies, Mr Matthes, I didn't see your signal. Okay, if we have a 10 minute
3 presentation from Bill.

4 5 **LARGE CAPITAL EXPENDITURE**

6
7 **MR HEAPS:** We've covered some of this previously during the discussion, but the purpose of
8 this session is just to provide an overview of the proposed process for approval of capital
9 expenditure allowance for large projects. The overview sets out the approach intended to
10 apply in the longer term again. Transition mechanisms that may apply are discussed in
11 the next session. So the key points to be covered are the proposed ex-ante approach to
12 setting the allowance and the approval of the projects, the treatment of contingent projects
13 and the treatment of emerging projects and the use of wash-ups.

14 So again, just to put the definitions around them; an ex-ante project is a project
15 that is known about and planned prior to the RCP, contingent projects are projects that are
16 well-known and are reasonably well developed but require some form of trigger to
17 operate before they are actually implemented, and then emerging projects are those that
18 aren't known prior to the regulatory control period but the need for them emerges during
19 the RCP.

20 Wash-ups at the end of the RCP are adjustments to reflect under and over-runs
21 and expenditure on projects not included in the maximum allowable revenue. They're
22 intended to hold Transpower financially neutral, so be in the same financial position as if
23 the expenditure had been included in the MAR at the time that the project was
24 commissioned.

25 Again just to refresh your memory, what we've categorised as the large projects,
26 the projects that are subject to an investment test, commensurate with the size of the
27 project, they're the ones we're talking about now. I hope you can see this slide, it's a little
28 bit low down there, but just to give you an overview of the proposed review process.
29 Prior to the regulatory period Transpower provides large projects and contingent project
30 lists and the supporting documentation for them. The assessment of those considers
31 Transpower's application of the investment test and compliance with other relevant
32 policies on an individual project basis. As I've said we would expect that that assessment
33 is commensurate with the size of the projects.

1 The approval for individual large projects will be undertaken on an ex-ante basis
2 and they will be included in the maximum allowable revenue. Contingent projects, and
3 those emerging projects through the RCP, are assessed on an individual basis at the end of
4 the RCP, and contingent projects are included in the wash-up. So just take note there that
5 contingent projects are included in the wash-up and emerging projects aren't included in
6 the wash-up in the long-term view. And that leads you to the individual projects
7 allowances.

8 So just a summary of key points of how the proposal handles large projects.
9 Large projects include both RRE and IST. There is an expectation that projects in the
10 large project category will be able to be submitted ex-ante, but there's also an
11 acknowledgment that some may emerge during the RCP. Transpower needs to
12 demonstrate that the projects have been submitted to an investment test that's
13 commensurate with the project size and also demonstrate that appropriate policy and
14 processes, for example procurement, have been complied with and completed.

15 Contingent projects and triggers are to be identified ex-ante and wash-up
16 provisions will be included. Again note only contingent projects included in the wash-up.
17 Emerging projects will not be included in the wash-up but will be included in the
18 regulatory asset base and the MAR for the subsequent regulatory control period.
19 Expenditure approval is specific for each project, but note that projects can be submitted
20 at any time during the RCP. Large projects that are not commissioned in the period that
21 they're forecast to be are included in the wash-up. So if there's an under-spend and they're
22 not commissioned then that is included in the wash-up.

23 Just to work through a chart that may explain this. So first of all for ex-ante
24 projects detailed information is provided and submitted over a period, it's not considered
25 immediately before the RCP so there is a period there through which the assessment can
26 be undertaken. So individual assessment is made of each of those on the ex-ante projects
27 list that come through. Individual project approval will be given ex-ante.

28 Approved projects that have successfully completed the investment test will be
29 accepted for inclusion in the MAR. They're included in the MAR and at the end of the
30 regulatory control period there is a wash-up, so the wash-up provisions adjust for
31 legitimate under and over-spends, and projects not commissioned in the RCP are included
32 in the wash-up.

33 Then we have contingent projects, so contingent projects is submitted over a

1 period, and again not just immediately before, prior to the RCP, so the evaluation can take
2 place, the assessment can take place over a period. So the contingent project list is then
3 assessed, and individual contingent projects are approved. Contingent projects that have
4 successfully completed investment test during the RCP are approved.

5 They are included in the wash-up provision, so approved contingent projects
6 undertaken during the RCP are included in the regulatory asset base, and they're used to
7 establish the maximum allowable revenue in the subsequent regulatory control period.
8 But the wash-up allows this to be financially neutral for Transpower. So it takes account
9 of the return on the assets for the period from when commissioning took place, the actual
10 spend occurred, and the end of the first regulatory control period. So the wash-up's
11 intended to hold Transpower financially neutral for contingent projects.

12 Then there are projects that may emerge during the five years through the RCP.
13 And for those projects that they've completed the required process stages and approvals
14 during the RCP but they weren't approved ex-ante and they're not contingent projects,
15 then they're subject to individual project approval. Projects that have successfully
16 completed the investment tests are accepted for inclusion in the MAR, and then there will
17 be no wash-up. So approved emerging projects are accepted for inclusion in the
18 regulatory asset base which is to be used to establish the MAR in the subsequent RCP.

19 So basically the difference between the contingent projects and the emerging
20 projects is that the contingent projects will be included in the wash-up that holds
21 Transpower financially neutral; for the emerging projects Transpower will have to wait to
22 the subsequent regulatory control period to get a return on those assets. So there is a
23 consequence of not including the emerging projects in the ex-ante or the contingent
24 project list, which is considered to give some discipline on Transpower to the extent
25 possible, project, predict and forecast large projects ahead of the regulatory control
26 period.

27 So again we consider that this gives Transpower flexibility to handle projects that
28 emerge during the period, to be able to substitute and change projects as they move
29 through the regulatory control period, but that there is a discipline on Transpower to the
30 extent possible to be able to forecast accurately the projects that it will undertake ex-ante
31 prior to the regulatory control period. I might just leave that slide up as we move into
32 discussion.

33 **CHAIR:** Are there any points of clarification that are required? **[No comments]** If not then we

1 will adjourn for lunch. We'll have to have an hour, so if we can reconvene back at 1.20.
2 Thank you.

3
4 **Lunch Adjournment from 12.20 pm to 1.19 pm**
5

6 **CHAIR:** Good afternoon ladies and gentlemen, and welcome back. You hopefully will recall
7 Bill's presentation just before lunch on the proposed approach for large projects. We'll
8 now going into the discussion phase. It will be led by Commissioner Sue Begg
9 discussing the ex-ante approach. Commissioner Begg.

10 **MS BEGG:** Thank you. Just focusing on large projects and the longer term, so not the
11 transition issues but where we hope to get to in the future, maybe second or third
12 regulatory period. My question is what should we be able to expect from a business such
13 as Transpower in terms of best industry practice, in terms of its ability to be able to
14 forecast capital expenditure five years ahead for large projects? Just noting of course that
15 an allowance is being proposed for contingent projects and we're also proposing to treat
16 minor projects separately.

17 So the question is, in the long-term how far ahead should the Commission
18 reasonably expect Transpower to be able to submit for approval one-off large individual
19 capital expenditure projects? And I'd just also note is this going to depend somewhat on
20 the scale of the project and the nature of the project, and will the degree of certainty differ
21 over the term of that forecast period. So I'd appreciate if Transpower could respond.

22 **MR SIMPSON:** I think we need to look at this from two perspectives. I think there's a planning
23 perspective where you can look at load forecasting and things like that, so there's
24 probably a little bit more certainty perhaps than looking at long-term load forecasting and
25 the annual planning report process. In terms of forecasting, say, a conductor replacement
26 project that's very much based on condition assessment, we might not know five or six
27 years out whether the conductor needs to be replaced on that year because we'll be
28 monitoring the condition as it goes and seeing well has it got to the point where it's
29 reached the replacement criteria or not.

30 So I think it's horses for courses, I think, in terms of certainty. We may well be
31 able to have a view about the quantum of reconditioning work we might want to do, but
32 we might not be able to say which one it was. So it's a balance about how far ahead you
33 can see. Certainly on the planning front I think it's better and easier because you can say

1 well what's the historical known load forecasting, 2 percent or 1 percent, so then you can
2 say well, the system replacement, you know, needs to be enhanced at that point.

3 **MS BEGG:** In terms of your overall work programme, though, what sort of proportion would
4 you say was reasonably predictable and forecastable versus the proportion that's not?

5 **MR SIMPSON:** I think I'd perhaps need to just ask from Siobhan's point of view what's the
6 GUP part of it, because I think that's a fairly large lump in dollars, the rest of it's probably
7 in the remaining 30 percent.

8 **MS PROCTER:** Yeah, from a Part F perspective new line build we require seven years in
9 advance we need to really know what we're doing. Reconductoring duplexing would be
10 probably three to five years and probably the same for transformer replacement. So we
11 have a view ahead of time now. We would anticipate that that would actually get better
12 as time goes on as well, once we get - the last few years we've been dealing with projects
13 that we have to do from a reliability perspective, so we should be moving into a more
14 predictable planning phase over the next few years I would think.

15 **MS BEGG:** I wonder if I could ask Powerlink in terms of their experience comparing what they
16 forecast and what their out-turn was, what sort of proportion of projects were substituted
17 in, I guess, that weren't in the original forecast. Just obviously it might be tricky to give
18 that in precise terms but just in broad -

19 **MS YORK:** Yeah, I don't have the precise information to hand, but certainly in our first couple
20 of years of this current regulatory period, we've experienced some challenges getting
21 some projects completed, things which were beyond our control like extreme wet weather
22 in North Queensland and flooding and things like that. And those kind of things that
23 come from left field may happen or may not happen. We're now going through a good
24 period where we haven't had a lot of wet weather and our projects are getting completed
25 in the timeframes that we forecast.

26 **MS BEGG:** So that's projects that you had forecast and it's a matter of conditions allowing them
27 to be completed rather than different projects?

28 **MS YORK:** That's right, that's line build projects that were in our allowances and some of them
29 even approved and underway at the time of our revenue determination that just didn't get
30 completed because of wet weather largely. We had significant floods around the McKay
31 area in North Queensland which just meant those projects, you just couldn't get anywhere,
32 couldn't do anything. Any time they dug a hole it caved in because it was full of water.
33 So there are some extreme circumstances where things happen and you're not going to

1 necessarily be able to do what you planned to do.

2 We've also had instances since the revenue determination like our
3 telecommunications equipment which at eight years old, you know, the level of call-outs
4 and repairs to that equipment just went through the roof and so we've got to replan our
5 telecommunications programme so that we replace that equipment. It's only eight years
6 old, we've got notionally a 15 year life but it's certainly not going to last the distance. So
7 we've got to substitute in a project to replace that, get some spare parts, use those spare
8 parts on other parts of the telecommunications network while we gradually replace all
9 that, and it's all going to end up being replaced before its notional 15 year life. So things
10 like that do happen.

11 **MS BEGG:** How significant is it in terms of the overall forecast, though, just the ones that are
12 brought in that weren't originally forecast?

13 **MS YORK:** It's going to be more than probably, you know, certainly more than 5 percent of the
14 programme, you know, maybe somewhere between 5 and 15 depending on what actually
15 happens in any year. That's just off the top of my head, I don't have any numbers or
16 anything to support that, but that's the kind of thing we can experience.

17 **MS BEGG:** Okay, that's helpful thanks. This really is going to the question as to whether the
18 Commission should require Transpower to have sought regulatory approval for all large
19 projects that aren't contingent projects prior to the determination of the revenue for the
20 regulatory period. So I just wonder if Transpower would like to comment on that, how
21 able it would be to forecast the projects that are going to be -

22 **MR STRANGE:** I think for a three year set it's impractical. It will vary, I mean if it's a
23 transformer replacement project you've probably got an 18 month, 2 year just
24 manufacturing delivery time. So to get it commissioned in that period you probably are
25 going to have a business case. But then you go into some reconductoring work or
26 something which you think is going to be in the third year. Whether it actually ends up
27 occurring in the second year or the fifth year is quite fluid, it will depend on resource, it
28 will depend on land access.

29 In New Zealand one dry hydro season will wipe almost a season off us. Even
30 right now the Contact outage has just turned us upside down in terms of our programme
31 around Auckland because it's been a three month outage. But funnily the macro spend on
32 that sort of - so the big ticket items tend to go sort of reasonably firmly, the transformer's
33 ordered and you know that Siemens is going to deliver it within plus or minus three

1 months out in two years time.

2 But there tends to be quite a lot of substitution around line work etc. Though
3 funnily enough the macro amount tends to stay the same because you've got the same
4 amount of work crews using the same amount of equipment, they just tend to move
5 around the network and do it elsewhere.

6 So individual projects I think probably, looking to Kieran and Bob, quite a lot of
7 substitution. But the macro, it's really an ordering - projects get pushed out, other projects
8 come forward and then I mean we get the unknown unknowns. I think last night or the
9 night before, Kieran, we had a copper conductor, 110 kV fail in Karapiro which we didn't
10 think was in bad shape. We knew we had to replace it all, and it came down across an 11
11 kV line so we've probably caused a lot of damage. That will cause probably an
12 emergency project looking at the condition of that whole conductor. We might see 5 or
13 \$10 million reconductoring in the Waikato and it will possibly mean we have to bring
14 forward the whole Waikato 110 kV upgrade. So that's an unknown unknown. We've
15 done condition assessments on it, we thought we had a few years and 24 hours ago our
16 mind was totally changed.

17 However, I do - funnily enough that's why we're happier with a cap and a forecast
18 programme. There will be a high substitution but the macro spend doesn't actually vary
19 so hugely because there's only so many crews, so much work that can be done.

20 **MS BEGG:** So in terms of giving us comfort that your forecasts are reasonable, you're basically
21 saying that you're not going to be able to forecast the individual projects, although you'll
22 be able to forecast presumably large major work, but that you've got a capacity to
23 undertake work and your forecasts will largely reflect that?

24 **MR STRANGE:** It will largely. We've put it in scale. Really, and I'm just looking at Kieran's
25 numbers from earlier, if we take out the big contingent projects, and sure we're spending
26 nearly a billion a year, but you take Pole 3, NAIGU, NAAN out of that. In this sort of
27 small Part F and non-Part F space we're probably forecasting \$200 million, a bit more
28 a year. And that's spending I think, you know, all these substitution, the first year a lot of
29 the business cases will be done, the second year they probably won't be in the business
30 case but forecasts will be there. That 200, 220 will stay the same, reasonably the same,
31 that's why we're happiest with the bucket.

32 And what we're trying to get into too, a huge problem with our cost of line work,
33 particularly in the field, that our contractors are seeing lumpy work. And it's already

1 lumpy because we're seasonal, we can't work through a lot of the winter because of the
2 loads on the network and the conditions out there. Increasingly we have outages from
3 generators in the summer constrains us.

4 What we're trying to do is to give them a sort of bow wave of work so that they
5 can plan their resources over the next two three years. So we can say to them well we
6 need to reconductor this class of conductor over the next four years, come back to us, and
7 we don't really mind whether A is done in year 1 and 3 and substitute. And there's huge
8 benefits from doing that, they start to be prepared to compete with Queensland and stop
9 them stealing our linemen, which is the game we're in.

10 And to put it in perspective, I mean it is I think about 200, \$250 million a year
11 we're talking about. It's more stable opex, I totally grant that, but yesterday we were
12 talking about opex, a big part of which is maintenance. Basically of the order of, I don't
13 know, a bit over \$200 million a year, which is totally ex-ante for three years, totally a
14 bucket approach, we substitute, and it is more stable than capex. But it's why we think for
15 this class of capex, which is of a similar order of money, we should be really adopting the
16 same approach.

17 **MS BEGG:** So to what extent then would you provide information on individual projects ahead
18 of time to help inform, you know, prior to the regulatory period, to help inform us as to
19 the reasonableness, I guess, of your approach, if you're looking for a bucket approach?

20 **MR STRANGE:** Well the forecasts a-la Queensland would be totally made up on, I mean
21 they've probably got more sophisticated slightly than we can be right now. But as I
22 understand it, I mean they've got quite a suite of projects sitting there in their forecast
23 plan, some of which get weightings to them because you don't know which scenarios
24 develop. I mean I would hope in a second regulatory reset we'd be right there, the first
25 one will be a long way away along the line. So each individual project making up the
26 forecast would be in that plan but there wouldn't be a business case.

27 But I think equally important is our reporting, and our game's lifting a lot, we've
28 still got a long way to go. I mean we think in terms of status of these projects and
29 decisions, given web etc, we should be and can be totally transparent, so that everybody
30 can monitor, you know, where we're substituting and what we're doing. There's no
31 downside to that at all.

32 **MS BEGG:** Thank you. So one of your main concerns with the Commission's proposed
33 approach would be the suggestion that projects that aren't approved prior to the period are

1 only allowed into the regulatory asset base in the next regulatory period. So if a project
2 comes up during the period and you go through the process of approval etc, and it's only
3 allowed into the next regulatory project, you'll forego some return on capital etc if it's
4 commissioned in that period, that would be a concern?

5 **MR STRANGE:** That's certainly part of the concern, but the bigger concern is the process.
6 That, you know, basically we're going to have to come back and go through a process,
7 and it is a regulatory process, to revisit everything over \$1.5 million. And, you know, as
8 good, and may have been good, you know, as Strata and we can be, that is a regulatory
9 overhead and a regulatory process which I just will say bluntly I think is unnecessary and
10 inappropriate.

11 **MS BEGG:** So if there's a project that you wanted to substitute in during a period and it was,
12 say, \$10 million and not \$1.5 million, do you think there should be any process whereby
13 the Regulator is involved in approving that, or do you think you should have the
14 discretion within your bucket to do what you like?

15 **MR STRANGE:** At \$10 million I think we should be open about it and inform people, but in
16 principle, regulation we should have a discretion to do that. It's us trying to -

17 **MS BEGG:** If it's \$50 million you'd -

18 **MR STRANGE:** I mean \$50 million, we don't have many, I mean -

19 **MS PROCTER:** Six in the next two years.

20 **MR STRANGE:** Six in the next two years. There's tending to be more because we're
21 aggregating what used to be individual projects. And a lot of those are less easy to
22 predict the timing of etc, because they're influenced by generator location and the like. I
23 think they would tend to be either contingent projects, which is probably the best, so they
24 would follow their own path. A bit like Part F now, though, I think it can be a lot simpler.
25 And that will largely address it.

26 There would be very few projects over sort of \$20 million and under the normal
27 Part F I would have thought, non-Part F. I mean synchronous condensers are one of the
28 exceptions, 35, \$40 million. And we won't even know, I mean we say that that's easy and
29 you can predict it; the reality is we won't know what we're spending on the synchronous
30 condensers in large part until we take the face plates of what we have. I mean sitting
31 rumbling around there for 20 or 30 or 40 years and it's going to be hugely condition
32 dependent.

33 **MR FLETCHER:** Can I just add, just to answer your point about substituting a \$10 million

1 project; if there's a \$10 million project forecast to be in the plan at the time when you set
2 the revenue and then that doesn't happen, for whatever reason, but it's substituted with
3 another unplanned \$10 million project, that project, that substitute project would still be
4 required to go through whatever process is required under the rules for us to develop that
5 process, be it consultation, be it a very formal GIT test or whatever. And so as long as we
6 follow that process I think our position is that we should be able to substitute within the
7 cap that's been set.

8 **MS BEGG:** Thanks. One concern obviously we have is Transpower's ability to forecast its
9 capital expenditure, this is based on historic issues. And I just wonder if we give you a
10 big bucket where you're allowed to substitute, does that take away an incentive for you to
11 actually improve those forecasting processes and planning processes?

12 **MR STRANGE:** Good question. I think quite the reverse. The minute you put incentives - I
13 mean if you try and say well, you know, put a tight process on that approves project by
14 project you get into a regulatory game. And your focus goes not necessarily on the
15 planning, the focus goes on making sure you get through the Regulator on individual
16 projects.

17 If you've got \$200 million in the bucket and, you know, it's not easy, we've got to
18 keep the lights on, and you've got three years, I tell you the board and the governance and
19 CEO will be requiring a very very high degree of planning, because we've got the
20 incentive to get it right and we've got the penalty if we get it wrong.

21 Nothing worse than getting - you know, you've got a few projects to finish in the
22 last year and an unknown unknown comes along, we drop a conductor and we're faced
23 with having to spend another \$40 million in the Waikato. Because fundamentally, that
24 would be money that goes from the shareholders pocket. So my view is that with the
25 approach that Queensland's got is the way you incent the company to actually improve its
26 planning processes.

27 **MR FLETCHER:** I think we recognise the historical issue with the forecasts and that's a
28 reflection of the business planning cycle we've previously operated to. Kieran mentioned
29 the initiatives which are in place to kind of improve that and get the asset strategies and
30 long-term integrated planning. And that's one of the reasons why we propose, and I think
31 very early on in this process the ex-post review at the end of this period, at least for the
32 transition period, was to enable any - to provide the Commission with the comfort that
33 they could claw-back material forecast variances.

1 I guess it begs the question how that ex-post review will reward legitimate
2 efficiency savings over that period, but I guess the design of the ex-post review will
3 address that. But that's specifically why it was in for that period.

4 **MS BEGG:** Okay, thanks. Did any - Bob?

5 **MR SIMPSON:** Just to put one more thing into context; the numbers Kieran presented this
6 morning which looked at unplanned and Bill was focussing on the unplanned part, I think
7 we need to understand what we mean by unplanned. If a job starts one year and gets
8 moved to another year that automatically becomes unplanned. So the view I think in the
9 past has been it's a one year view, what was planned in that year, did you do it in that
10 year? And we might bring work forward, like the grillages work, you know, we were
11 asked by the Government to look at what issues we could do to bring work forward. So
12 that actually became unplanned because it got put forward to a year ahead.

13 So the question about how you categorise work and what is really unplanned and
14 what is planned, because I think you can get the wrong conclusion if you don't look at it
15 from the right perspective.

16 **MS BEGG:** In a five year regulatory period obviously you have more flexibility about the
17 timing, so hopefully that becomes less of an issue.

18 **MR SIMPSON:** Yeah, so you'd have a five year view not an annual view which you look at
19 through one particular window.

20 **MS BEGG:** Okay, thank you. Anyone else?

21 **MR WALL:** Yes, I have a comment. From the substitution point of view, if you're a
22 commercial business like Genesis you can only spend so much capital in a year, you get a
23 capital forecast that you can spend. You've planned your business out five to seven years
24 and you've got a capital spend priority list in there. But as things unfold in your business,
25 as your business changes, as things happen, as your assets change state, you have to
26 reprioritise that work all of the time.

27 We've just gone through a relatively big piece of work where we planned to
28 replace some stators and rotors in the Rangipo machines and we're also looking at
29 transformer replacement and Tokaanu. Now we were going to do the stators first because
30 we thought they were the greatest risk, the transformers had a lower risk. Condition
31 monitoring is now saying that we've got to reverse those, so we're suddenly scrambling
32 around doing contracts today that we were planning to do in a year's time.

33 You know, the capital spend is the same over the five year period, but we're

1 spending it in a different order. And you've got to be able to be flexible enough in a
2 business to be able to reprioritise to maximise the benefit of your business. I think that's
3 what Transpower's asking the ability to do.

4 **CHAIR:** I'll turn over to Associate Commissioner David Caygill.

5 **MR CAYGILL:** I just wanted to explore one issue relating to wash-ups. At the moment in
6 relation to large projects, Part F projects, they're typically approved on a P90 basis.
7 Presumably the cost estimates you're likely to be using in future will be something
8 similar. I mean there's a degree of uncertainty, you look at the range and you take a
9 figure like the P90. But my question is, if you continue to do that, or if we continue to
10 expect you to do it, actually is it reasonable that there should be a regulatory wash-up
11 when there was a degree of probabilisation around the original number? Does that make
12 sense?

13 **MR STRANGE:** Yeah, I think I can start and Richard can make a comment. First of all I think,
14 you know, I think in the long-term wash-ups are undesirable. We'd certainly prefer an
15 ex-ante because there's protection in a transition period for both Transpower and the
16 Commission. In terms of how we forecast projects, I mean the forecasts should be across
17 an aggregate, the expected outcome. And I was interested, and we'll probably take it up
18 with Powerlink, Merryn referring to some statistical stuff you did. We have a P50 and we
19 have a P90, but the reality is the expected outcome is probably somewhere between the
20 P50 and the P90. Because projects only ever go one way. They're never under budget,
21 they're usually late and you get more IDC.

22 It gets much easier when you're approving a forecast bucket, because the overs
23 and the unders wash out. The issue we have with the current one, with the EC, is one
24 project in 10 goes over the P90, and EC's been very good when we come back, but of
25 course we don't get any credit for the three or four out of the ten that are way under the
26 P90. Under a bucket you end up with whatever the probable outcome is, P70, and you
27 take the risk.

28 **MR SIM:** Someone made the comment earlier that, I can't remember who, but that some of the
29 larger projects, the really massive projects, are unlikely to get substituted out or
30 substituted with other projects. And I know that we've been talking about Transpower
31 obviously needing to have the flexibility to move projects around and substitute within a
32 bucket, which is what we've proposed for - setting aside the cut-off level for a moment -
33 we've proposed that Transpower should retain the bucket and be able to substitute freely

1 as it sees fit. And we've also, I think the comment was that the large projects would never
2 be substituted.

3 So I guess my question is, where is that boundary between where substitution may
4 become necessary? Is it a \$100 million project, or is that still far too big, that if you got
5 that approved you would never substitute that for another thing within a five year period;
6 or is it a \$50 million project, or is that still too big?

7 So I'm interested to hear where you think that cut-off may be for where the
8 substitutability is needed, as opposed to where the extra level of scrutiny. So we can talk
9 about a \$1.5 million cut-off, which is really for where the Commission might start
10 looking at doing project approvals, but just in terms of where you need the
11 substitutability, where would that boundary be?

12 **MR SIMPSON:** I think the question perhaps just to ask in return first before we perhaps - if I
13 could just clarify; are we talking about a one year bucket or a three year bucket?

14 **MR SIM:** I think we're confusing again the - the three year bucket we're talking about is only
15 for the minor projects. What we're trying to - what we started off talking about here was
16 the long-term regulatory picture for where we should be getting to for those larger
17 projects, so the Part F, what's currently Part F. So in terms of substituting one Part F
18 project for another Part F project, is that really necessary?

19 **MR FLETCHER:** We come back to the point we made earlier, or our proposal for where that
20 threshold could or should be, which is the 30, 40, \$50 million and above large projects.
21 And below that within the bucket, or envelope as I prefer to call it, I find it a bit vulgar a
22 bucket, but I think we should - I'll get over it.

23 **MR SIM:** So are you suggesting that it's necessary to substitute a \$50 million project out, so if
24 you're part way through a five year control period that you should be able to substitute a
25 \$50 million project for other capex?

26 **MR FLETCHER:** I suspect that if that was the case, for example then, you know, there would
27 be a very specific reason as to why that less than \$50 million project didn't occur as
28 planned, and that would be taken into account by the Commission at the end of the
29 period, during the review.

30 **MR SIM:** So you're suggesting that a wash-up would be necessary then?

31 **MR FLETCHER:** Well I think in that circumstance, yeah, I think it would, that's why we have
32 the wash-up facility.

33 **MR SIM:** I thought it was just proposed earlier that we should be aiming in the long-term to

1 avoid wash-ups.

2 **MR DEVINE:** Just to sort of clarify, a delay of a project, or the substitution of a project that
3 size is more likely to be a delay than an actual - we're talking some reasonably significant
4 event that's probably demand driven that we may shift in time and refine for a later date as
5 conditions change.

6 I think John expressed it reasonably well, there are some known unknowns that
7 are best dealt with by exception. As I understand a wash-up, basically everything is done
8 line by line at the end of the period and evaluated. By exception says that there are going
9 to be some things that are really known unknowns that are reasonably dealt with as a
10 one-off at the time. And that's what I would see that the very large projects that, for
11 whatever reason, get either, well substituted is the word in a financial sense, but actually
12 in reality are likely to be time delayed.

13 **MR SIM:** Sure. Okay, so if I can just clarify. What you're suggesting is it's necessary for
14 Transpower to have the flexibility to defer projects, and perhaps, I guess, the Commission
15 needs to consider how it responds to a project that's been deferred. But if it's been
16 deferred from one control period to another, so from year 4 or 5 into year 1 of the
17 following control period, are you saying that in year 4 or 5 Transpower should have the
18 ability to take the \$50 million project that was deferred and spend that on something else?

19 **MR DEVINE:** Provided the replacement projects go through due process. There should be no
20 difference to the Regulator for that outcome.

21 **MR SIM:** At the moment what we've proposed is that any additional projects that were required
22 would be submitted for approval, so that extra \$50 million project that was deemed
23 necessary and you would have substituted; so are you suggesting that you shouldn't bring
24 that through for regulatory approval? Because we have also proposed that there is
25 another mechanism for how you would recover that separately, so Transpower still has
26 the flexibility. Do you follow my question?

27 **MR DEVINE:** You have a \$50 million project you've delayed for some reason, for a valid
28 reason, you may replace it with another \$50 million project and that would go through
29 due process and if that required regulatory approval that would be done. If it was made
30 up of five \$10 million projects and the cut-off was 20 they would go through due process
31 inside Transpower and then basically be approved by Transpower, and then effectively
32 the Regulator would look at them after the event for the reset for the next period.

33 **MR FLETCHER:** I think it's an unlikely scenario as well, we have the three year period, we

1 have a \$50 million project, if it hasn't already progressed at the time before the period
2 starts then it's a new project, it's unlikely to be commissioned in year, 1, 2, possibly 3 if
3 it's a large project. So the impact on the overall revenue cap is a return, you know, an
4 assumed commissioning date in year 3 of the period. So although it sounds a lot, the
5 \$50 million project, it's more likely to be deferred a year and towards the end of the
6 period where it will be impacting on the revenue.

7 **MR SIM:** I guess that's where I was trying to lead to, is because it's actually going to be
8 undertaken in the impact on the revenues from other projects, is not going to have that
9 much impact on Transpower; should that be included in the bucket of the smaller capital
10 expenditure which has quite an impact on the incentives to manage within that bucket?

11 So if it was deferred in the later years it takes all of the pressure off Transpower to
12 efficiently manage the smaller bucket of capital. Which is why I'm trying to clarify the
13 size of those large projects that should be allowed to go into the small bucket. Because in
14 my mind I can't see why there isn't sufficient flexibility for Transpower, given that there's
15 enough processes around deferring and bringing in new projects when it has such an
16 impact on the small category, the minor projects category.

17 **MR SIMPSON:** It comes back to the point I made earlier on, is it the \$50 million or
18 \$20 million? It's that criteria that we're working from I think.

19 **MR STRANGE:** And I think we have to think - I think we're boxing at straws a bit here. I
20 mean the reality is anything of the order of \$50 million is probably going to take five
21 years to build anyway. So, you know, it's going to have to be committed and well
22 through the gap at that point anyway. And we'll have very - I think we'll have very very
23 few projects over \$20 million that are not contingent projects under the New Zealand
24 scene, which is somewhat different to Powerlink. You know, the exceptions will be
25 synchronous condensers and perhaps the odd GXP.

26 So I think we're more arguing what about \$15 million projects, or before Bill
27 mentioned a \$7 million project as having an impact on a bucket. I think, you know,
28 \$7 million projects and \$15 million projects absolutely should be in the bucket. If
29 Transpower in the third year of the reset says look in terms of prioritising our spending
30 we should defer that \$15 million reconductoring or something because we can spend the
31 \$15 million more effectively over here, Transpower should be able to do that, and should
32 do it.

33 And as I think Merryn said earlier, I mean I think Powerlink does that in its last

1 years, and often those deferred projects come back into the revenue reset for the next
2 period. It seems to work. But I think talking \$50 million - I mean how many projects do
3 we have between 20 and 50?

4 **MS PROCTER:** Very few.

5 **MR STRANGE:** Very few. Most of the bucket ones we're talking about are sort of, you know,
6 the big reconductorings are probably 15, \$20 million, very big ones. Once we get beyond
7 that we're getting into long-term projects, you know, duplexing in the South Island if that
8 gets approval is, I don't know, \$150 million. It will be three years before we even get foot
9 on the ground, we've got to talk to a few farmers. So there's very few projects over sort of
10 \$25 million that are not going to take several years to order and get on the ground.
11 They'll span your regulatory period.

12 **MR SIM:** Okay, so back on to wash-ups then, in the long-term, so not in the first one or two
13 control periods, and assuming, well, whether we have substitution or not, are you saying
14 that we should not be going to wash-ups?

15 **MR STRANGE:** My personal view long-term is wash-ups are undesirable, it should be like
16 opex and should be all ex-ante. But we've virtually proposed or agreed with the
17 Commission, I think, in that first three year term that for protection for both, given the
18 uncertainty and the state of the New Zealand network, that there be an ex-post review. I
19 don't know if I'd call it a wash-up.

20 **MR FLETCHER:** It's an ex-post review.

21 **MR STRANGE:** It's an ex-post review which is different to the wash-up.

22 **MR FLETCHER:** Yeah, with claw-back in the first period. That's the important thing, it's not
23 just a review to inform the future, it's actually a review back just for material forecast
24 variances, if there were variances as a result of material forecast inaccuracies. So if we
25 recovered more revenue in that first period than we should have done due to forecasts
26 being materially wrong, the ex-post review would adjust the revenue in the forward
27 period for that excess revenue in the first period.

28 But then we're moving to a situation where we're getting to a position where
29 there's more confidence in long-term forecasts, there's more confidence in the process
30 which underpin those forecasts. A forecast is made in the second period based on what is
31 deemed to be a reasonable forecast, and then the company and the Regulator lives with
32 that determination. So there'd be no claw-back in the second period. But it's based on
33 having more confidence in the forecasts themselves.

1 **MR SIM:** Okay.

2 **MR FLETCHER:** Which I think is the Australian approach.

3 **MR CAYGILL:** Switching topics, although we've partly been talking about it in the last few
4 minutes. Is it Transpower's view that it would be useful to have an explicit category of
5 capital expenditure called, if you like, contingent projects, along the lines of at least, well,
6 I think I understand is the system in Queensland. So if some external contingency occurs,
7 perhaps a generator gets a resource consent that you can't know at the start of the period
8 they will or they won't, if they did then you would undertake the project, if not you
9 wouldn't. Is that a useful thing to do?

10 **MR STRANGE:** Yes, I think we need to have contingent projects and probably always will
11 need to have in the New Zealand system. But I think we really, and they're a bit like the
12 very big Part F projects, and I do think we should look at the Queensland system where
13 the company drives the consultation etc, and we leave the Regulator, but that's a different
14 issue.

15 **MR CAYGILL:** Different issue.

16 **MR STRANGE:** But yes, I think we'll always need them, but if we get them over sort of five or
17 six in a regulatory period we're making a mistake. And that's a lot.

18 **MR CAYGILL:** That's good.

19 **MS BEGG:** I think we've covered wash-ups, I'll just check if staff had any extra points? [**No**
20 **comments**]

21 **CHAIR:** I'll ask Bill to talk about the transitional mechanisms for large projects in RCP1.

22 **MR HEAPS:** Okay, this won't be hopefully quite as long as the other presentations, because I
23 have only a couple of slides. I've tried to ensure that this is visual, so you can see the
24 transition period before your eyes. So the purpose is to provide a summary of the
25 proposed transition mechanisms being considered for RCP1. You'll recall this is the chart
26 that I included in the large projects long-term approach.

27 So I thought what I'd do is put the long-term approach and then there's basically
28 the only one transition mechanism proposed at the moment, and that's down at the bottom
29 right-hand corner. So you'll see for that one that now the emerging projects are those
30 projects that you weren't aware of, Transpower wasn't aware of before the regulatory
31 control period, are actually included in the wash-up provisions that Transpower has held
32 neutral, financially neutral for those projects.

33 So basically ex-ante the projects get approved and included in the MAR and there

1 is a wash-up of unders and overs. Contingent project list, if the contingent projects go
2 ahead the triggers fire and they go ahead, then they're included in the wash-up provision
3 and included in the regulatory asset base and the MAR for the following regulatory
4 control period, but within the wash-up Transpower is held financially neutral for the
5 timing of the investment that was made.

6 For emerging projects, providing they've gained all approvals and followed the
7 required processes, then they will also be included in the regulatory asset base at the end
8 of the RCP and included in the MAR for the following RCP, and they will be included in
9 the financially neutral wash-up. So that was the transition mechanism that's proposed for
10 large projects.

11 **CHAIR:** Questions?

12 **MR STRANGE:** I think all our comments we were talking about earlier just apply to this, we
13 don't need to go over old ground really.

14 **MR HEAPS:** Yeah, I think if there's just any other transition mechanisms that you think should
15 be applied and whether it's appropriate to include the large projects in the wash-up.

16 **MR FLETCHER:** It's difficult without just repeating what we said this morning. I think we
17 have the transitional approach, we have the - I mean our view very simplistically is large
18 projects should be outside of the ex-ante forecast and they can be treated as contingent
19 projects and we'd identify those up-front, we'd put a forecast of our three year capex
20 expenditure to the Commission and we subject that to an independent review and it's
21 substantiated based on the process. The revenue envelope is determined.

22 The wash-up at the end is - and allowances are made based on that forecast; we
23 can set certainty of revenue for three years for customers etc, with the assurance that any
24 material variance against that will be clawed back and adjusted in future revenues. So I
25 think the wash-up, we've already discussed the wash-up, that's just as a very quick
26 summary of our position. So I don't know if there's merit in commenting on this in any
27 more detail.

28 **CHAIR:** Okay, before we leave large expenditure, does MEUG or Genesis or Meridian or
29 anyone else have any comments they'd like to make of the discussion in the last half hour
30 or so? **[No comments]** Okay, thank you. We'll call Bill back to talk about the proposed
31 approach for minor projects in RCP2.

MINOR CAPITAL EXPENDITURE

1
2
3 **MR HEAPS:** The purpose of this session is to provide an overview of the proposed process for
4 the review of Transpower's minor projects capital expenditure proposals. The overview
5 sets out the approach intended to apply to the longer term transitional mechanisms, as I
6 did for the larger projects that may apply I'll discuss in the next session, so please
7 remember this is the longer term view.

8 Just to put it in context for the earlier slide that I put up, we're now talking about
9 the minor projects and this is where the Commission's focus will be on the qualitative
10 governance and management levels, so on the policies and procedures and processes.
11 And that that would be supported by the quantitative building block information provided
12 at a level that demonstrates practical application of sound policies and strategies.

13 So we envisage that sampling at the top projects in the minor projects categories
14 and sampling of projects in there to give assurance that the policies and procedures have
15 actually been adhered to in practice. Also, review of the application of the policies and
16 potential efficiency gains that may be made through the types of improvements that you're
17 talking about making in the procedural areas, and also looking at things like ratios and
18 base data. So some of the items like cost per tower, cost per kilometre of line
19 reconductoring, those sort of things; again to get the view that the policies and procedures
20 are actually being applied in practice. So we're looking at the minor projects.

21 The overview of the approach to minor projects sort of progresses the transition
22 that we see occurring, is that first of all Transpower provides qualitative information,
23 policy strategies and procedures, that have been used to establish the expenditure
24 forecasts. The assessment considers the policies and if appropriate provides adjustment
25 factors to account for any potential efficiency gains that can be made.

26 The proposition is that if policies are appropriate then the planned expenditure
27 will also be appropriate for use as an expenditure allowance. That proposition is then
28 tested by reference to the quantitative information and analysis is undertaken to assess if
29 the policies have been applied in practice. So that's a sort of straightforward approach.
30 And then the, if you like, the bucket expenditure allowance would emerge from there.

31 So summarising that, minor projects would include both RR&E and IST projects.
32 They can include aggregated project groups, e.g. programmes, and remember that those
33 programmes have a limit of \$10 million not \$1.5 million, but individual projects in there

1 would have to be under \$1.5 million.

2 Aggregated project groups must be subject to a common underlying asset
3 management strategy or policy. So again we'd see the transformer replacement, tower
4 painting strategies, actually driving the greater use of programmes and aggregating
5 projects into programmes in this category, so not every individual project has got to be
6 looked at or identified ex-ante if prior to the RCP. We'd expect a lot more of the forecast
7 expenditure is contained in aggregated projects and programmes, and that the policies and
8 strategies and processes are assessed.

9 The projects for the first three years must have completed required process stages
10 and gained Transpower approvals prior to inclusion in the minor projects expenditure
11 allowance. Then projects for years 4 and 5 that have not completed Transpower's internal
12 approval processes may be adjusted prior to inclusion in the minor projects expenditure,
13 and that's to take account for any gains that we consider may be possible as the projects
14 progress through to approvals through those processes.

15 Just to continue, the review considers the application of policies and processes.
16 Adjustments may be made to account for potential efficiency gains. Approved
17 expenditure allowance sets the boundary for minor capex expenditure, and substitution is
18 allowed within the boundary. Substitution limitations may apply, so it's been considered
19 whether, as we've discussed between business divisions or between RR&E and IST, or
20 even around asset categories whether substitution limitation should apply around those.
21 And allows also for policy changes that occur during the regulatory control period may
22 need to be considered in this category.

23 So just to summarise the approach, Transpower provides process improvement
24 information, and also projects and programme list 1, and these are projects that have
25 completed processes and gained Transpower approvals. They also provide asset
26 management policy strategies and planning information. Project list 2 are projects that
27 have not completed the process and gained Transpower approvals.

28 The Commission then assesses the process improvements and approves the
29 projects and programme list, so projects that have not completed Transpower's approval,
30 approved internal projects approval processes are rejected from list 1. So list 1 is
31 Transpower's provided what it considers to be its approved project and programme list,
32 and the Commission would reject any projects and programmes in there that haven't
33 actually followed Transpower's approved policies and processes. Account is taken of the

1 asset management policy strategies and planning in that assessment. Project list 2, so
2 these are the projects that haven't completed processes and gained Transpower approvals
3 for years 4 and 5 only would be assessed by the Commission.

4 The determination of the expenditure allowance, so process improvements and
5 adjustments would be applied if that was considered to be appropriate. Off list 1 the
6 projects and programmes considered for approval would exclude the projects that have
7 been rolled over for more than one regulatory control period. And the project list 2,
8 subject to adjustments would be approved for inclusion in the MAR.

9 The approved expenditure allowance would then be decided upon by the
10 Commission. And the approved expenditure would be included in the regulatory asset
11 base and used to establish the maximum allowable revenue which flows through to prices.

12 There is consideration of a possible safety net. So considering a safety net
13 provision just to account for any significant under and over-spends, although the main
14 intention of the minor projects bucket is that Transpower can operate within those
15 parameters. That summarises where we are with the minor projects.

16 **CHAIR:** Thank you. Commissioner Begg will lead the discussion.

17 **MS BEGG:** I'd be interested just to get Transpower's feedback on whether it agrees that the
18 capital expenditure reviews undertaken by the Commission for minor and aggregated
19 projects should continue to be process based and should continue to focus on
20 Transpower's compliance with its own internal capital planning processes and policies.

21 **MR STRANGE:** No, I mean there are elements of this, but I just think this is sort of getting into
22 a level of detail which we wouldn't even do at, you know, this would be a level or two
23 down at company governance level. And if you put this sort of programme where
24 anything under \$1.5 million that was a discrete capex programme, you know, basically
25 you're saying you have to have the business case approved three years out.

26 What will happen, and people do respond to Regulators, is you'll get about eight
27 big programmes, one of them will be called protection upgrades, another one will be
28 called substation security, and we'll just be forced to put them all into buckets ourselves to
29 take them out of this process. Because, you know, doing something because Tasman
30 Network's decided to do something quite small which affects the security vents between
31 the two of us, so we go and spend \$600,000 on a capex programme, I mean that's not
32 planned three years out.

33 **MS BEGG:** So your concern is the suggestion that you'd need the approval for these projects

1 three years out, rather than the overall process which is similar to what exists at the
2 moment I guess?

3 **MR FLETCHER:** I think on the positive side I think the process and the level of regulatory
4 scrutiny is pitched at the right level. This is looking at our processes and it's saying let's
5 look at what you do, Transpower, now show us that you do what you say you do, as long
6 as we agree with what you do is appropriate; a bit of a long way round of saying it. And
7 that's not dissimilar from the Strata approach at the moment for non-Part F. And there are
8 concerns with the current non-Part F processes that it's annual, it doesn't take a longer
9 term period into account.

10 So to answer your question directly, I think the level of regulatory scrutiny and the
11 processes described in terms of the level that you'll interpose yourself is appropriate.
12 Then it comes down to the threshold, it comes down to the convoluted list 1 and list 2 and
13 the process prescribed, it comes down to the substitution issue, and it comes to the
14 requirement to have full certainty up-front for three years when that's not practically
15 possible. So it comes down to the full business case.

16 So there's a positive bit followed by three bits which I think need to be looked at
17 in more detail.

18 **MS BEGG:** So one of your concerns is the 1.5's not high enough, you'd prefer that to be at a
19 higher level for the definition of minor projects?

20 **MR FLETCHER:** Yeah, that's - yeah.

21 **MS BEGG:** And in terms of up-front approval, what do you think would be reasonable for the
22 Regulator to expect Transpower, you know, would it be reasonable to expect that the
23 first year of a programme had gone through all Transpower's processes, and the
24 second year, or -

25 **MR FLETCHER:** I wouldn't say -

26 **MS BEGG:** Or 90 percent of the first year's projects?

27 **MR FLETCHER:** I'd be tempted to satisfy yourselves that the forecasts are reasonable, and the
28 expert opinion is that the forecasts are reasonable given the transparency of the
29 assumptions and the information that Transpower has made available, Transpower's
30 looked at options where they're appropriate, where it's appropriate they've applied a cost
31 benefit analysis.

32 I think it's difficult if you start saying it should be 85 percent approved or
33 95 percent approved, I think it's more an expert view, is that a reasonable forecast given

1 the information that is available, and the practises that you put in place to plan that work,
2 and if it is, let's set revenue on that basis, and go forward.

3 **MS BEGG:** Given that the forecast change is - I presume as a project goes through
4 Transpower's approval process it's refined and, you know, options change etc; how can
5 we get the certainty over the forecasts if they haven't been through the process? Do we
6 just say well you're forecasting a certain amount now and we know that when it goes
7 through the processes you will achieve some efficiencies, so we'll just make an
8 adjustment, or will we expect you to make some adjustment -

9 **MR FLETCHER:** It could be -

10 **MS BEGG:** - in providing us?

11 **MR FLETCHER:** Sorry to cut you off. I could be a bit facetious, they can go the other way as
12 well, they don't necessarily come down. I guess that comes down to the confidence in the
13 long-term forecasting process. As we develop things like the US cost estimation tool,
14 which is actually feeding back actual delivered cost into the process, it's looking at
15 making sure we've got benchmark unit costs that we're applying. When we get things like
16 that in place, the Commission, and Transpower, will be able to provide evidence to the
17 Commission that forecasts are reasonable. And we may not be there in nine months time
18 when we put our plan in, so we've put the ex-post review in to mitigate that impact. So I
19 hope -

20 **MS BEGG:** But in the subsequent regulatory periods you'll be confident that your forecasting
21 will be better but you still won't expect to be getting more projects approved up-front, that
22 will still be -

23 **MR STRANGE:** The nature of these small projects, I don't know what the number will be, but
24 if we start a business plan year with - perhaps we've got an aggregate of, I don't know,
25 \$20 million very small projects, a lot of them delegated to GM level, I would not at all be
26 surprised if business cases for half of those weren't even done a year ahead. A lot of them
27 will be driven by field work, something will happen. So what we can say is well, we'll
28 allow for six, I don't know, might be change outs of interrupters or whatever. We don't
29 know where they'll be etc but we know in the course of events through the year they'll
30 pop up.

31 And quite often those will be approved by Kieran, and it will be delegated to
32 Kieran in his bucket from me and will be informed etc, and that's the nature of just a vast
33 amount of these small projects. I hate to say it but it doesn't take much for us to spend

1 a million bucks. My controls, my board's control, my control etc is pushing it down. I
2 mean I think we heard Merryn say your capex authority is a couple of million, and we're
3 the same. And I wouldn't expect a lot of those to be in place at the start of a
4 business year. I don't know if - Powerlink could the same.

5 **MS YORK:** No.

6 **MS BEGG:** One possible option that's been suggested is that we could require Transpower to
7 have its minor and aggregated project capex plans verified by an independent party prior
8 to submission to the Commission, so we get an independent view. Do you have any
9 thoughts on that?

10 **MR FLETCHER:** I think we'd presume that either the Commission would undertake that
11 independent assessment or we would self-certify through an independent assessment
12 which we'd commission; either way there would be an expert review of the proposal,
13 yeah.

14 **MS BEGG:** Right, okay. Obviously we're moving to an as commissioned basis as opposed to at
15 the moment where it's an expenditure based threshold. I just wondered if there's any
16 forecasting issues around that? So we're moving from just -

17 **MR FLETCHER:** In putting together our business plans we do forecast the commissioned date
18 of the project, so I think working out the details of that but I think in principle it's okay.

19 **MS BEGG:** Okay.

20 **MR FLETCHER:** And it actually reflects the impact on the revenue, so I think it's good.

21 **MS BEGG:** The proposal has been to have an aggregated projects category to enable
22 Transpower to more easily submit for approval large programmes of capital expenditure
23 based on a particular strategy or approach rather than having to seek approval for
24 individual projects. And we've suggested a \$10 million allowance there. For example a
25 strategy for tower painting might identify \$10 million per year to maintain the current
26 state.

27 As the individual projects will be based on current state assessments, Transpower
28 obviously might not know which towers it would need to paint three years in advance, but
29 it would be likely to be able to develop a robust programme supported by empirical data
30 that its proposed capital expenditure is reasonable. And just ask whether you think it's
31 beneficial to have a separate category which allows for sort of bundling and whether the
32 proposed \$10 million is a reasonable cap.

33 **MR FLETCHER:** I think it comes back to the - we've put down our position on the

1 substitution, so our comments on the - we still think a programme - we seem to be
2 working to an overall revenue envelope and there shouldn't be individual caps within that
3 revenue envelope. But having said that, I think consistent with what we said before, you
4 know, these programmes are driven by specific asset strategies, they are looking at an
5 asset stock over the whole of its life and that then does determine a volume of work which
6 is required on certain assets over the long-term.

7 So I think they do need to be looked at. As we said earlier the governance and the
8 process by which the drivers for investment are decided are specific to the programmes of
9 work, so they do need to be looked at individually, which is what is the current approach
10 that Strata apply for non-Part F.

11 I will make a point, though, that the majority of the programmes of work, the
12 transformer replacement programme, the safety breaker replacement, the grillage, the
13 tower painting programme, specifically the tower painting programme, has an
14 expenditure in excess of \$10 million per annum, most of the others do as well.

15 **MS BEGG:** Right, okay.

16 **MR SIMPSON:** Even within those programmes, a switch from indoor to outdoor conversion,
17 you wouldn't do one job for \$1.5 million, so we've got to think about if the individual jobs
18 in the programme, you've got to raise your sights higher because it can't realistically be
19 achieved in such aggregated levels.

20 **MR FLETCHER:** I think it comes back to the point, if the business case for doing a certain
21 amount of work is driven by a strategy as opposed to an independent cost benefit analysis,
22 then that business case, that asset strategy has to be assessed by the Regulator to be
23 prudent, to have looked at options, to appropriately reflect good industry practice.

24 Then it's a question of saying well is that strategy being applied in the forecasts?
25 Obviously because of the substitution issues that we talked about earlier, we think it's
26 inappropriate to lock that in as a cap within an overall envelope. But in order to inform
27 the Commission's view as to whether the overall forecast is okay, then that's the approach
28 I think we'd advocate for.

29 **MR CAYGILL:** Just so that I'm sure I'm following; what you're saying is that assessment of the
30 accuracy of your strategy would be made once at the start of the regulatory period?

31 **MR STRANGE:** Part of the forecasting, absolutely, just like a project.

32 **MR FLETCHER:** I might add to that in a similar way to we do with the current non-Part F
33 process. At the beginning of the next regulatory period we'd identify any changes to that

1 policy or strategy.

2 **MR HEAPS:** So the points of difference between the proposed approach then, because it mainly
3 follows that that it's an assessment of process and look at process improvements and
4 policies and strategies; and then it's well, the projects that have been through those
5 policies should be included, so long as it's confirmed that they've been subject to those
6 approvals, and then the projects that aren't, haven't gone through those processes could be
7 subject to adjustments. The only point of difference there that I can see is the three and
8 four years, that the requirement for the first three is to have the projects and programmes
9 through the approval process prior to the RCP.

10 **MR FLETCHER:** I think it's a general principle that the strategy will drive a certain amount of
11 investment on a certain part of the asset stock for a particular reason. I guess the question
12 is, is are we proposing an appropriate allowance, annual expenditure allowance to
13 maintain our overall asset stock condition, for example, at a certain level. And so I take it
14 away from having projects themselves identified in business case, but it's about an
15 appropriate level of investment consistent with the strategy.

16 **MR HEAPS:** Which is where we saw the programmes coming in, where we saw those working,
17 so that the programmes developed in accordance with the strategies and driven by the
18 policies.

19 **MR FLETCHER:** I don't think we've got any - sorry I'm getting carried away - I don't think
20 we've got any problem with that approach, it's a question of the criteria around - it's a
21 question of what you're going to do with that at the end of the day, you're going to cap it
22 based on some criteria of certain value projects being in or out of it. So the approach for
23 the Commission to determine whether that expenditure on that particular part of the asset
24 is reasonable is okay; looking at the strategy, looking at the application of it.

25 **MR HEAPS:** So there's one point of view that says well if your tower painting strategy is driven
26 - should be driven by - the strategy should then be setting policy, which is then sort of
27 embedded in how the organisation operates, whether it's processes and procedures or
28 whatever, but how they operate, and the actual age and condition of the assets. So the
29 actual age and condition and the physical nature of the assets then feeds into the planning
30 procedures and that drives an estimate of how many towers you're going to have to paint
31 each year, or how many towers you're going to have to refurbish to replace each year, and
32 the same for transformers.

33 So out of those we'd envisage that the programmes would be being developed that

1 would then give a reasonable forecast of what your capital expenditure would be for those
2 areas. And that seemed to be, you know, a reasonably flexible approach, but driven so
3 that the focus could just be at that policy and strategy level rather than a detailed project
4 level.

5 So I don't know that we're saying anything really different, I think that the
6 approach that we've proposed sort of enables that. The only issue probably is whether
7 there are substitutions allowed between asset categories. And a problem that I might have
8 there is that if you've established your programmes, say for tower painting based on the
9 aging condition of the assets, and then you don't do that, you put that into transformers,
10 put that expenditure into transformers, then what is the process that you work through for
11 doing that sort of substitution? Because presumably what you might be saying there is
12 well towers actually did need to be replaced and refurbished but we didn't do them, we
13 did something else.

14 So there needs to be some sort of regime around that, some sort of approvals
15 process which enables you to control projects and look at the impact of projects that are
16 deferred.

17 **MR STRANGE:** I challenge you just a little bit whether that's right Bill. Basically I mean there
18 are a lot of company processes, we won't decide to ramp up because of what we've
19 learned two years out, ramp up our transformer spend and ramp down our tower painting
20 without a hell of a business case to the board.

21 **MR HEAPS:** I think that's what I was meaning, the process of doing that.

22 **MR STRANGE:** We'll be doing that, we'll be doing that absolutely. But fundamentally we've
23 done a forecast, we've said Transpower you need to send \$617 million. On what we
24 know now, which will be sometimes four and a half years in a three year set out of when
25 we're actually doing it, to keep the network up and meet the performance standards, you
26 absolutely want to - we're only going to change that programme for one reason, because
27 we can spend the money better to get those - given what we've learned. And we will go
28 through a process, Kieran can't suddenly decide to go and buy another transformer instead
29 of painting the Otorohanga Bay towers.

30 But as far as the Regulator's concerned, providing we keep within that bucket, and
31 you'll see the changes when you do the next reset, I would say that's the level you want to
32 be at. But we don't do it lightly within the company, and I'm sure that's what Powerlink's
33 doing all the time within its regulatory reset. Given you've got performance standards,

1 you know, performance standards are the ones you set, but we've also got to front up
2 when the lights go out in Auckland. We are fairly driven to get this right.

3 **MR HEAPS:** Yeah, but I think you were saying that you would need to have some sort of
4 process if there were shifts from -

5 **MR STRANGE:** Internal governance processes, absolutely.

6 **MR HEAPS:** - deferral of - well looking at an impact, as you've said the impact of not
7 continuing with budgeted tower painting expenditure and putting that budget into some
8 other asset, something else, there would be a process around and an impact study on what
9 would happen.

10 **MR STRANGE:** There has to be, internally there has to be.

11 **MR DEVINE:** In both those cases, tower painting and transformers are good examples, because
12 both are largely driven, a little bit by age but largely by condition assessment.
13 Transformers have arrived in lumps, not continuous spread over the 70 odd years that we
14 go from whoa to go. And at certain times we'll have to replace more transformers than
15 we'll do tower painting, and that's a balance we take on the risks. Tower painting you can
16 slip a couple of years without too much aggro. Transformers, if you're concerned about it
17 you replace it as quickly as can, that's just a fact of life, that's risk management, we need
18 that flexibility.

19 **MR STRANGE:** Tower painting's probably a slightly bad one to use because it's actually a
20 specialist application. There's so many qualified tower painters out there actually, the
21 year to year spend, we can't suddenly decide to stop using them in June, you know, we'd
22 be laying off contractors' staff.

23 **MR HEAPS:** I think to a certain extent as well, you're saying the sort of concerns we've looked
24 at previously and the sort of position you've inherited, you know, the historical position
25 where, you know, we didn't see a good regime around substitutions and changes and, you
26 know, changes in different strategies moving each time. So there has been an issue
27 around those which I think is being reflected.

28 **MR DEVINE:** Is the issue around the changes or issue around the information about the
29 changes?

30 **MR HEAPS:** Planned projects that you would see in this programme so, you know, moving -
31 and are there other projects coming in, unplanned projects and, you know, the process
32 through which those changes occur.

33 **MR DEVINE:** So lack of information about the change?

1 **MR HEAPS:** Yeah, the lack of information around the process around the change, you know,
2 how the decisions are made.

3 **MR STRANGE:** I think how the decisions are made, historically we'd say that's a fair criticism.

4 **MS BEGG:** One issue that's been a problem in the past for the non-Part F capex is the roll-overs
5 of projects that have been in the plan and then they aren't done in the regulatory control
6 period and then they appear in the next one and still they're not done the next year.
7 Obviously a five year regulatory period helps address that. But I just wondered whether
8 there should be any constraints on the number of times a project can appear in a forecast
9 plan.

10 **MR FLETCHER:** I think the issue of the roll-over for the non-Part F threshold is a function
11 mainly of the fact that it's an annual threshold, so a project only has to slip by a week and
12 it's into the next threshold. There have been a couple of projects which we've discussed
13 which have actually been in the plans for three years and we've rectified those issues.

14 But I think, you know, if you are talking about a project which was in a - not just
15 rolled from one regulatory period to another, because that's again the same issue, just
16 rolling from one year to the next, but if it's been in there for three years and nothing's
17 happened and it just appears in the three years then we'd have to explain that, I would say,
18 specifically at the time of the ex-ante reset. So, yeah, it's an issue we're aware of.

19 **MS BEGG:** In the longer run we're looking at possibly not providing for a wash-up for the
20 minor projects, I just - I'd presume that would be consistent with the approach that you're
21 seeking?

22 **MR STRANGE:** Yeah.

23 **MS BEGG:** So we'll obviously have to review that as we get more experience with the process
24 and how well it works. But in the initial periods we're talking about wash-up.

25 **MR FLETCHER:** I know it's something we haven't discussed, but Merryn mentioned when
26 there isn't a wash-up there is facility for the company, or Powerlink at the end of a period
27 to explain, or make a case to the Regulator where it thinks it's made efficiency gains. And
28 then the determination is made on whether there are real efficiency gains and then they're
29 shared with the customers over, I don't know what the process is. Once you've got rid of
30 the ex-post review you almost need to build some incentives into the capex approvals
31 process similar to what we've got in the opex.

32 **MS BEGG:** Yeah, that's a good point. Just wondered if any other parties had any comments on
33 the long-term position and proposed treatment for minor projects.

1 **MR SCOTT:** I might make a comment, I've been interested for the last hour or so seeing the
2 debate go backwards and forwards, you know, these are issues which in other
3 jurisdictions around the world aren't a huge problem, so either there's something really
4 unusual about New Zealand or there's a transitional issue here, there's a need to kind of
5 move things to a new place.

6 And I can see the kind of discomfort on both sides. The Regulator's got
7 responsibilities and it needs to demonstrate that. On the other hand the company is kind
8 of saying if you don't trust us to get on with it we never will. And it seems to me that,
9 you know, when I look at what's gone on in the UK, for example, the Regulator has,
10 maybe where it's unsure, it has three ways of kind of trying to go forward. One is it takes
11 over the process itself, so it asks for every little bit, it ticks every box and it double
12 checks.

13 The other one is where the Regulator actually second-guesses the company,
14 reworks things, it may as well actually do the company's job for it. And both of those
15 have the big draw-back of not only regulatory overhead but it's never self-correcting
16 because it goes on indefinitely following that track.

17 Then of course the last one, the third one, is where the Regulator requires the
18 company to improve its performance, whether that's in its planning or its transparency, its
19 forecasting accuracy. And the advantage of that route, of course, is that once its right
20 then that pressure drops away because the thing is self-perpetuating.

21 And I think one thing a regulator can do is make provisions for itself to, for
22 example, be able to undertake quite in-depth ex-post reviews, so that's provided for. But
23 it makes it clear that it's not its intention to utilise that facility, or that it says it will only
24 utilise that facility for certain clearly stated out-turns, such as complete cancellation of a
25 major project or for a project of a greater than so much percentage of the plan. Because
26 many of these things are not actually cancellations, they are year to year shifts, so it's
27 going to get done eventually. So there is somewhere in there the opportunity perhaps for
28 the Commission to provide itself with capabilities but to hold them in reserve in effect.

29 And the other one is where the Regulator shines a light into the company for a
30 limited time and really helps the company to bring its game up to a higher standard. And
31 we heard right at the beginning today Kieran was listing various initiatives that are
32 coming into place. I mean I've seen some of those but I don't know any more than
33 anybody else how effective they're going to be, and I think this is down to the board of the

1 company to bring them through.

2 There are some process things that can help, you know, you can have ISO 9000,
3 or we mentioned PAS 55 and business process reviews, all those kind of mechanistic
4 things they maybe have their place. But I suspect the best one is transparency and getting
5 clear reporting and comfort, and in fact getting the sector to provide the cross-checks, so
6 the customers or the other third parties are the ones who come in and say can you explain
7 more what's going on here, you know, so actually that the sector becomes more
8 self-regulating.

9 **MS BEGG:** Thank you. Did MEUG or -

10 **MS YORK:** I've just got a comment I'd like to make. There's been a lot of discussion this
11 morning and this afternoon about substitution, and the framework that you have seems to
12 have these kind of mini gaps for the different bands. And picking up on the point that
13 was made by Ashley about, you know, in any given situation the business is really taking
14 a risk based approach to what they're going to do and what they're going to change.

15 So it might be that tower painting has a higher risk than transformer replacements
16 in a programme, but it also might be that there's something in another one of your mini
17 caps that's actually more important and you do want to allow that substitution taking into
18 account the overall mix of things.

19 And that's certainly where I think the Australian scheme of allowing substitution
20 across wherever is really coming from, that they're not saying well you can only risk
21 substitute within this little band, you can actually risk substitute across the whole lot if
22 you foresee that there's, you know, your demand forecast shoots up higher than what
23 you've planned and this becomes more relevant as you get a longer regulatory period, you
24 know, you need to be able to take that into account.

25 And if you're starting construction of a transmission line two to three years ahead
26 of when it's needing to be commissioned you do actually need to do that, you need to get
27 on to it and you might need to not do something else either because you're resource
28 constrained or you're capital constrained or whatever, and the business has to take that
29 decision across the - I think they need to be able to be allowed to take that across the
30 whole thing rather than only being able to risk substitute within your own minor projects
31 or programmes or large projects.

32 It just seems a bit artificial if you're really wanting to drive the business to make
33 the right choices across the whole programme. That's just an observation from my

1 perspective, knowing the kind of things that we might be required to do. I don't know off
2 the top of my head what your demand forecast growth is, but ours runs at about 4 percent,
3 it's had a bit of a drop off. If we get another boom it's going to scoot away from where we
4 think it is now and we will be expected to respond to that, not just we might respond but
5 we're actually expected to respond to that reliability of supply obligations. And that will
6 necessarily mean not doing something else which might be in the programmes or the
7 minor project. So that's just, I guess, a perspective on that.

8 **MS BEGG:** How do you get overall comfort, though, or comfort on the overall cap if all the
9 ingredients that go into it are highly uncertain and can be substituted and so on?

10 **MS YORK:** I think the way it works for the AER is that they take their best guess, their best
11 view based on the information you have at the time you make the decision. You know, in
12 the fullness of time hindsight's always 20/20, it's not going to be right, but it's as right as
13 you can make it at the time the decision's made and that's the best you can do.

14 So things will change, I mean we update our five year capex forecast every year
15 and we also have a mid year budget review. I've still got spend in our capex in this
16 financial year which is unapproved. That's only a small amount at this time of the year
17 but it's still there, you know, it's \$10 million, I think, that's still unapproved, even for this
18 financial year, that we're expecting to get approval. We approve projects every month, so
19 it's just a rolling thing that you're always looking at what you're doing and making
20 decisions and going through the processes and that's what happens.

21 **MS BEGG:** Thank you. Any other comments?

22 **MR SALMON:** Just to say that we're keen for anything that will drive efficiency gains within
23 Transpower, so kind of that's something that we're looking to happen as soon as possible.
24 The other thing is we support kind of the idea around transparency, it's an area that we
25 think, and it sounds like there's a good commitment from Transpower in that area, just to
26 get a better understanding of that kind of capital expenditure and the programmes
27 involved. And we're not expecting necessarily to be consulting on it or anything like that,
28 but just to know what's involved would be quite useful.

29 **MS BEGG:** Thank you.

30 **MR CAYGILL:** At the risk of putting MEUG on the spot, I'd be interested in, Ralph, your
31 reaction, if you have one, to the point that's being made about substitution. Because it
32 seems to me that the reason why a Regulator might impose compartments within a
33 regulatory asset base can only be in the end because it thinks it's necessary to do that in

1 fairness to the ultimate payers.

2 And so it seems to me that the - we're trying to balance all the arguments we've
3 heard, which I think are good arguments, certainly clear arguments; against doing that,
4 against the risk, as it were, to the consumer that we've in the end overestimated the
5 regulatory asset base by allowing a free-flow within it. And I'd be interested in whether
6 MEUG has a reaction to the issue.

7 **MR MATTHES:** Really, I mean I've listened with interest to this session, still making up my
8 mind. But I think John actually sort of raised the whole issue about more transparency as
9 actually being one of the more important things, because it does allow affected parties to
10 come in and ask questions if need be. And Greg also mentioned that. I think in the
11 longer term that's the better approach. And I quite like Patrick's idea of no wash-ups, and
12 I think that all fits into with having greater ability for substitution. So it's just a matter of
13 how fast do we get there really, that's always been my question. Can't give much more
14 than that.

15 **MR CAYGILL:** No no, thank you for that, I didn't want to put you on the spot, but that is a
16 helpful response, I understand, thank you.

17 **CHAIR:** Any other comments? [**No comments**] Thank you, perhaps if I can ask Bill to discuss
18 the Commission's proposed transitional mechanism for minor projects.

19 **MR HEAPS:** I think I'll stand up for this one, there's a few more transition mechanisms in this
20 one. So the purpose of the session is to provide a summary of the proposed transition
21 mechanisms being considered for RCP1 for the minor projects category. So as before this
22 is with the long-term approach line that I put up before with the information provided by
23 Transpower, the assessment process that the Commission would carry out then to
24 determine the expenditure allowance. And then the approved expenditure allowance
25 would flow through to the MAR, and there's discussion of a possible safety net which I'll
26 just outline in the next session.

27 So these are the changes that are being proposed. I'll just sort of flick backwards
28 and forwards so you'll see the areas. So for year 1, because we're still operating under the
29 settlements agreement, the proposed capital expenditure information will be provided and
30 the assessment will be undertaken similar to the settlement agreement. Of course the
31 difference then for the remaining three years is that the project and programme list, list 1,
32 will be provided, and the approved project and programme list 1 will be subject to
33 assessment. Again there will be an assessment of asset management policies and

1 strategies and planning information, and the project list will be assessed for compliance
2 with those policies and strategies.

3 There will also be project list 2 which is all the projects that have not completed
4 process and gained Transpower approvals. That list 2 would be for the remaining three
5 years only, so not for the first year which is under the settlement agreement.

6 So basically project and programme lists are for those projects that have
7 completed and got approvals, and a list of those projects that are intended to be
8 completed - are included in the business plan but haven't completed processes and gained
9 Transpower approvals. Both of those are assessed then against the asset management
10 policies and strategies.

11 In terms of determination of the expenditure allowance, again similar process
12 improvement adjustments are applied if appropriate, projects and programmes are
13 considered for approval. Projects that haven't been included - that will exclude projects
14 again that have been rolled over for more than one RCP. And the project list 2, the one
15 that's for the remaining three years will be subject to potential adjustments prior to the
16 inclusion in the RAB used to establish the MAR.

17 So basically we're just splitting out year 1 and then for the remaining three years
18 assessing projects that have completed, processed and gone through to approvals, and
19 project list 2 assessing projects that haven't progressed through those approvals ex-ante.
20 And the only other difference is that safety net may apply but also there is a proposed
21 wash-up at the end of the RCP1, there's a proposed wash-up to take account of unders and
22 overs.

23 **CHAIR:** Commissioner Begg will lead the discussion.

24 **MS BEGG:** I'd just like to get feedback on whether the transitional proposals, whether people
25 think they're reasonable. They're pretty much a sort of evolution of the current
26 arrangements, but Transpower, I wonder if you've any issues.

27 **MR FLETCHER:** Can I just clarify, that was transitional - I was a little bit confused - that was
28 transitional just for the year 1, the transition year of RCP1?

29 **MS BEGG:** Yeah.

30 **MR FLETCHER:** Which is the current non-Part F review that's ongoing at the moment?

31 **MS BEGG:** And perhaps the year 3 because you could argue that's - the one year then the
32 three year and the long-term's the five year, which we've already discussed.

33 **MR FLETCHER:** I think our previous comments stand on the proposal as a whole.

1 **MS BEGG:** Same issues. Obviously during this period the intention is that Transpower
2 enhances its forecasting approach. I just wondered if you had any thoughts on whether
3 the Commission should be providing incentives to help Transpower on the way there.
4 One option that was discussed was limiting the buckets in which substitution would be
5 allowed and we've talked about that and Transpower obviously doesn't like that. But do
6 you have any other views on whether as part of the regulatory regime we should be
7 incentivising better forecasting, and if so how.

8 **MR STRANGE:** I think I come back - I don't think you should be diving in and incenting
9 particular processes, it should always remain output driven. We're incented enough with
10 our own drivers to get our forecasting right, to be blunt. I just think it's, you know,
11 getting dangerous for the Commission to be incenting certain behaviours rather than
12 outcomes. It would be difficult to do.

13 **MS BEGG:** The problem for the Commission, of course, is we have to set the one year, the
14 three year, then the five year, so it is dependent on Transpower's forecasts.

15 **MR STRANGE:** I think, you know, the three year, we're putting a big effort into it. With the
16 process changes occurring it will be a step up from where we've been, quite a long step
17 up. But the sort of review at the end, the ex-post is the safety net.

18 **MR FLETCHER:** Also I think it's partly mitigated by the fact that if the Commission gets a
19 clear view that the improvements which we're targeting will occur and are planned and
20 have got clear kind of deliverables then I think it's satisfying itself at the ex-ante review
21 time that those things are in place.

22 **MS BEGG:** Okay. I think we've already discussed that we're proposing a wash-up for these first
23 periods. I think people, Transpower and others, seem reasonably happy with that and
24 Richard's raised the issue of if you do ex-post wash-ups can you design an incentive
25 arrangement, and I think that's a good point so that efficiency gains are captured as
26 opposed to forecasting errors, which we need to distinguish between if we can. I just
27 wondered if anyone had any other points to make.

28 **MR WALL:** I have a comment. The move to this type of arrangement actually puts a lot more
29 onus on Transpower to do good forecasting by itself. The fact that their maximum
30 revenue is based on their forecasts rather than a process at the moment where they just
31 seem to go up to the Commission every so often with a GUP and say this is what we want
32 to do and let us go and spend all this cash. The fact that they're having to do this
33 forecasting I think is a major step forward from the existing process. So I think it's

1 already quite a large incentive in there for them to get it right.

2 **MS BEGG:** Thanks. Any other thoughts? Did staff have any issues they wanted to raise?

3 **MS WARD:** Perhaps we should clarify that actually, the minor projects process as proposed
4 here is not that much different to what's called non-Part F capex under the current
5 arrangements. So there's currently the Part F and the non-Part F, it's not terribly different
6 than the non-Part F.

7 **MR FLETCHER:** I think other than the non-Part F (inaudible) it would be over that period.

8 **MR WALL:** That's what I'm more referring to, yes.

9

10

SAFETY NET RE-OPENER PROVISION

11

12 **CHAIR:** No more comments? [**No comments**] Perhaps we'll go on to the last session, which
13 we had planned for afternoon tea but we'll work through it. That's on safety net re-opener
14 provisions. Safety net is a re-opener provision that is triggered by a major shortfall of
15 investment relative to the capex allowance. The concept of a safety net was introduced in
16 the Transpower chapter of the Input Methodologies Discussion Paper.

17 Although re-opener provisions are being dealt with as an input methodology, we'd
18 like to briefly discuss whether or not this is a useful mechanism to apply to Transpower in
19 both the long and short terms. I'll hand over to Bill now to provide a short presentation
20 on matter and then we'll have a discussion.

21 **MR HEAPS:** Thanks Chairman. So the need for a safety net, or the perceived need for a safety
22 net, the key purpose of the safety net is to protect consumers from higher than necessary
23 prices over the RCP. So it applies to the minor capital expenditure allowance.

24 The Commission is considering a safety net because ultimately a wash-up is not
25 intended to be used for the minor capital expenditure. Over the term of the settlement
26 Transpower has not been able to demonstrate accurate forecasting of its capital
27 expenditure. The Commission considers that the safety net would place incentives on
28 Transpower to improve the accuracy of its planning and not to inflate its proposed
29 expenditure levels.

30 So the safety net facility would be if the actual spend during the regulatory control
31 period falls materially below the level of the capital expenditure allowances then the
32 Commission may, at its discretion, re-open the capital expenditure allowances for
33 any year or years during the RCP. The Commission will undertake a review and if it

1 considers necessary make adjustments to the MAR during the RCP.

2 We considered possible options. There is a safety net that is used in the UK and
3 our understanding is that that is triggered in the event annual expenditure is more than
4 20 percent below the capex allowance for that year, and Ofgem has discretion as to
5 whether to re-open the revenue determination. A New Zealand safety net provision could
6 operate in a similar way. We considered that there could be a trigger if there is a certain
7 percentage under-spend for both years over a rolling two year average, and also a trigger
8 which would probably be a lower percent if the under-spend occurred in any one year.

9 So the Commission is looking for views on whether if a wash-up is actually used
10 in the first years where the safety net provision should apply and what the differences are,
11 and the merits of the use of a safety net.

12 **CHAIR:** Commissioner Begg.

13 **MS BEGG:** I wonder if John Scott might like to comment briefly on his interpretation of its use
14 in the UK and then we'll get Transpower. It's obviously a substitute for a wash-up and it's
15 an alternative also to having no wash-up or safety net.

16 **MR SCOTT:** I can say that I'm not close to the detail now, but I don't believe that it's a facility
17 that's used very often and I think that's an example of the big stick in the pocket, you
18 know. And it's very important that it's not mechanistic, you know, it's not just triggered
19 by some number threshold. Ofgem clearly reserves the right to use its discretion, but to
20 know that that is there probably encourages good outcomes.

21 **MS BEGG:** Thank you. Transpower.

22 **MR FLETCHER:** We would concur with what John's just said.

23 **MS BEGG:** So you're not opposed in principle to the idea, it's how it's - I mean if you had a
24 choice of no safety net -

25 **MR FLETCHER:** I think it kind of ties in with how pass-throughs will be treated now. You
26 know, relevant change of circumstances in legislative changes which have an impact on
27 our expenditures upwards or downwards, I think there needs to be an element of
28 symmetry around any re-openings which might be possible. So I think - we haven't had
29 that discussion about if legislations change or health and safety standards change or
30 there's a major adverse weather event, a force majeure event, how they would be dealt
31 with within the period. But I guess -

32 **MS WARD:** Those have been discussed as part of the input methodologies, re-openers and
33 pass-throughs.

1 **MR FLETCHER:** So it does tie in to a certain extent with that. If there is one I do agree with
2 John's comment.

3 **MR STRANGE:** I think of the options put up, the second one where you start going into
4 segments again, all our previous comments apply.

5 **MS BEGG:** This is, I guess, seen as protection against if the forecasting doesn't become
6 accurate then this is a protection for consumers where you under-spend relative to a cap.
7 So it sounds like in the UK it might be useful as an incentive mechanism, but because it
8 works it's not used, so -

9 **MR STRANGE:** It's a big stick you never want to use.

10 **MS BEGG:** That's right. So we'll continue to look at that, we won't rule it out.

11 **MR CAYGILL:** Can I just - Patrick, is it possible that a one way safety net - so a safety net not
12 a wash-up, something that's not reciprocal, it just applies only in the event of
13 under-expenditure - might be a reasonable tool in the context of the earlier discussion
14 around caps or compartments? In other words if the Commission was persuaded to allow
15 substitution between categories, but nevertheless felt a degree of concern about that in the
16 first instance, then might a safety net that did allow for the recovery of gross
17 under-expenditure in particular categories be a potential compromise?

18 If you under expend by, I don't know, I'm just inventing a number, by 20 percent
19 in a particular category and you take that, because you've switched the money somewhere
20 else, it might be because a contingent event has occurred, you know, some contingency
21 has occurred that requires you to make that switch, or it might be you just got your
22 forecasts wrong and because you're allowed the substitution you went ahead and did that,
23 do you see what I'm saying?

24 **MR STRANGE:** Yeah, I still - I mean it's a bit like the old expression touching the tar baby.
25 Once you go there it's going to be very difficult to get the tar off your hands and let go.
26 Personally I mean I think we should learn from Powerlink in Queensland and
27 transparency. I mean I don't think the case will come up very often either. And while we
28 talk about our inability to forecast, actually when you take out the TNP programme which
29 the new Chief Executive deliberately slowed down it was proved, actually it's been the
30 substitution that's been the issue really in the last few years. We've been spending pretty
31 much in the last couple of years what we forecast, we've just been spending it on different
32 things at times, which is not necessarily a bad thing.

33 I don't think it's necessary to put individual caps like that. If we have good

1 transparency and we publish what we spent on tower painting programmes against our
2 allowance there'll be plenty of questions asked, it's a small world. I just think, you know,
3 it sort of sounds good theoretically but you're seriously touching the tar baby again. If
4 you have the right drivers on us it's not going to happen anyway, and the drivers
5 ultimately are, you know, the state of the network and its performance.

6 And I think long-term what Ofgem's actually getting into is some sort of analysis
7 of the condition and risk profile of the network. Not easy to do, going to take a while, but
8 I mean that's much better transparency.

9 **CHAIR:** Any other comments or questions? Staff, any other interested parties?

10 **MR DEVINE:** Just to pick up that theme of an area that you have a significant under-spend in
11 theoretically should result in decline in service provision of some form, you know,
12 whether that's immediate or later is very hard to determine. And the sort of penalty thing
13 you're hinting at may actually require the double trigger. You substitute out of an area for
14 a particular reason, and the assumption is that our processes are working correctly, we've
15 done a risk analysis, we think we should shift it to B instead of leaving it in A. The
16 outcome of that is that service provisions at least remain level or go up, which is what you
17 would expect if it was being done correctly. If it didn't that's when the penalty should
18 provide.

19 **MR STRANGE:** These things are, you know, there's no free lunch, we all understand tar
20 painting, but if we've got an allowance to spend \$15 million over a regulatory period or
21 \$30 million and we only spend 15, we're shooting ourselves in the foot because come to
22 the next reset you'll be re-setting us back towards the 15, and what we will have driven
23 our costs towards is 60. Because there's a reason we're painting those towers in this
24 period, to avoid surface degradation and much higher costs.

25 So the last thing, you know, there's some beauty in the regulatory set like that and
26 the fact that it's sort of reset every five years. And I'm sure Merryn and tower painting,
27 the last thing you do is under-spend this year because A it leaves you exposed to spending
28 a hell of a lot more in the next period, because they do rust, and what's worse is the
29 Regulator saying I'm resetting your tower painting. So you'll find actually we have a big
30 incentive not to do that sort of thing, it's quite elegant.

31 **CHAIR:** Any other comments, questions?

32 **MS WARD:** I do have a question around the level of the safety net.

33 **CHAIR:** Okay.

1 **MS WARD:** Just whether or not anyone had any views on where that should be set, what sort of
2 level of under-expenditure. Sorry, what sort of level of under-expenditure might we set
3 the safety net.

4 **CHAIR:** Who was that directed to?

5 **MS WARD:** Just a general question.

6 **MR STRANGE:** I could put a number up.

7 **MR WALL:** They're going to have to work it out themselves. The reverse question is at what
8 level do you think you need to intervene. How bad does it need to be before you believe
9 the customers have been adversely affected. I strongly believe that the stick is needed, it's
10 a really good idea to have the big stick. I also understand Transpower's comments that,
11 you know, they'll do everything to avoid the stick ever coming out of your pocket. So,
12 you know, it's really a decision the Regulator has to make as to at what point do you think
13 the consumer has been adversely affected by under-spend. You guys probably are in the
14 best position to make that decision.

15 **CHAIR:** Any other questions? **[No comments]** Right, I suppose it falls on me to say that this
16 concludes the Commission's workshop on regulation for Transpower under Part 4 of the
17 Commerce Act. I'd like to close the session with the following remarks.

18 First, during the workshop the Commission has posed some questions that
19 participants may address in post workshop submissions. The Commission will publish a
20 list of those questions on its website together with the transcript as soon as possible.

21 Second, as noted yesterday and today, the various rounds of written submissions
22 remain the principal avenue by which the Commission seeks and receives interested
23 parties' views. Following the workshop all interested parties have the opportunity to
24 make submissions on any matter discussed at this workshop.

25 Post workshop submissions are due two weeks from the date the transcript is
26 posted on the Commission's website, which we expect to be no later than Monday 8th of
27 March. This means that submissions are likely to be due by 22nd of March. Everyone is
28 welcome to make a submission. There will also be an opportunity to make detailed
29 written submissions on the draft price quality determinations and the applicable Input
30 Methodology Determinations later this year.

31 On behalf of the Commission I'd like to thank everyone for their submissions on
32 the Transpower discussion papers released to date and for their participation in this
33 workshop. Particular thanks to those parties that gave presentations over the two days. It

1 has been very informative to the Commission and we appreciate the frank exchange of
2 views. We have especially appreciated the access to expert economical and technical
3 expertise.

4 Finally I'd like to thank the Commission staff and advisors, and also the
5 transcriber and the technical person who has assisted us during the workshop. Are there
6 any final questions from Commissioners? Are there any final comments from any
7 interested party? **[No comments]** No. Well thank you very much, this session is now -

8 **MR FLETCHER:** I'll get in the last word I'm afraid. **[Laughter]** I'd just like to commend the
9 Commission on the approach they've adopted to this and allowing discussion. I think it's
10 really useful to allow a bit more of an informal debate going on these issues and I think
11 it's worked really well.

12 **CHAIR:** Thank you, the session is now closed.

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14 **Workshop concludes at 3.08 pm**
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