Market Study into the retail fuel sector:

Draft Report - dated 20 August 2019

Submission

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This is policy analysis by a financial analyst. It draws together conventional methodologies commonly applied in the investment and securities markets research and the author's experience and judgement. Many of the measures are also used for regulatory purposes.

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Introduction

The Commerce Commission invited comment on the draft report on the proposed market study into the retail fuel sector to consider whether competition is promoting benefits to consumers over the long-term.

My comments on the Commission's draft report should be read in conjunction with my prior submissions headed: "Working paper on assessing profitability" and "A submission on Question 9: Trend in Profits".¹

Independence

This third submission has been prepared independent of any interested party.

I have had three decades of experience in the application of the" economic model" of business and the assessment of financial performance. In observing how the original "2017 Fuels Study" has evolved, now reconstituted in the form of a "Retail Fuels Market Study", I offer comments which may assist the Commission.

Approach

- My comments primarily relate to the Commission's analysis of the significance of excess returns over time including a forward-looking information relevant to the competition study of the New Zealand Fuel market.
- Based on the most recent publicly disclosed financial reports of Z Energy, BP New Zealand and ExxonMobil New Zealand ("Fuel Majors"), I have updated my financial models. I have also improved the formatting and classifications and the comparability of the corporate analysis.
- 3. For each Fuel Major I have produced selected basicfinancial information included in the Appendix.
 - Income Statement

¹https://comcom.govt.nz/__data/assets/pdf_file/0015/127302/Ireland,-Wallace-and-Associates-Submission-onpreliminary-issues-paper-21-February-2019.pdf and https://comcom.govt.nz/_data/assets/pdf_file/0028/168346/Ireland,-Wallace-and-Associates-Limited-Submission-on-assessing-profitability-07-May-2019.PDF

- Financial Statement
- Excess Profits (or EVA or Economic Profits)
- Net Operating Profit after Tax (NOPAT) adjusted historic cost basis.
- Operating Capital adjusted historic cost basis.
- 4. In **Table A**, "Performance Summary", profitability information is collected for each Fuel Major and as a group (a partial industry).
- In **Table B**, "Performance Indicators", forward looking indicators are linked to the histories in Table A. Tobin's q and Future Growth Value analysis address future expectations and persistence of excess returns.
- 6. In **Table C**, "Excess or Economic Margin Analysis" (for Z Energy only). The margin is a total value margin as it includes the opportunity cost of capital.
- Z Energy is the main reference firm being the largest fuel major and listed on stock exchanges. The share price movement is a prime indicator of investor expectations for Z Energy and for the industry.

The Commission's analysis

- 8. I believe that the Commission's analysis is deficient to the extent that underlying data, assumptions and computations supporting its positions or conclusions are mostly hidden. For instance, few if any performance metrics for each of the major fuel firms are revealed despite the publicly available information. Data is consolidated or grouped in various forms (in charts and graphs), averages, geometric averages, 3 year rolling averages, different time periods, etc. As a result, it is difficult, and potentially time consuming, to test the draft conclusions. To understand how the Commission arrived at results the reader needs underlying information and analysis.
- 9. I recognise the market study requires a broad-brush approach as a results of data availability and when there are issues of commercially sensitive information. The study requires plausible ranges (or limits) by industry and by parts. In my opinion a fair balance of interests has not been achieved.
- 10. For input into public policy the Commission's approach requires a reasoned narrative supported by relevant financial analysis. Yes, it appears that excess profits looking forward and backward are significant and persistent. However, the underlying analysis is hidden in group data and results. For instance, the 3-year rolling average ROACE hides the

assumptions and calculations and the domination of the 3 fuel majors. The rolling 3-year average hides the year by year trends. As set out in **Table A** the Excess Profits (and related returns) of each of the Fuel Majors has significantly declined in the last financial year. [The declining trend is best measured as Excess Returns (or EVA) as it accounts for a capital charge (and a falling cost of capital as the risk-free rate falls).]

IWA analysis

- 11. My financial analysis is a work in progress. There are number of issues with accounting classifications, when and if resolved, would enhance my work. I have not spoken with any Fuel Major or the Commission about the content of my previous submissions.
- 12. The Commission has focused on the "new entrant/expansion" assumption for calculating the capital invested. It deducts, among other items, acquired goodwill and contracts from total assets, adds capitalised leases and nets off current liabilities and cash. My fundamental assumption for calculating Excess Returns is based on the "cash returns" related to the "cash invested" in a firm. The accounting anomalies are corrected to establish a modified/adjusted historic cost. Most of these adjustments listed in my submission, "Trends in Profits", Attachment 4, referred to in footnote 1.
- 13. The Commission includes Z Energy's revaluations [D150] in the calculation of NOPAT and Capital.² What is unclear is whether the revaluations for the ROACE calculation were allocated back over the time when they arose?
- 14. Under the Commission's "new entrant" assumption acquired contracts are deducted from assets. It is arguable that the entrant costs of acquiring customers should be capitalised as part of the investment. A start up loss to attain a normal return would be part of capital for replacement cost calculations.
- 15. Generally, my calculation of capital are likely to be higher than the Commission's estimates. It would be easier for the Commission to reconcile with my definitions and treatments.

Profitability of firms

17. The Commission's preferred replacement cost (of PP&E) better reflects the cost for new entrants/business expansion. The Commission suggests an index of holding gains of about 2

² Refer to D151 and the option to either reverse revaluations to reflect historic cost or include gains in profit and accumulated gains added to capital. Consistently applied the historic or revaluation approaches are equivalent.

% pa might be appropriate. The Commission has criticised my Excess Profits/EVA approach as it is backward looking and, although the accounting treatment is modified, fails to account for holding gains/revaluations. My answer is that the Commission can just add one line to my NOPAT to account for change in value and a line accumulating holding gains/losses to Capital. [D207] The accumulated holding gains may also be added to Tobin's q replacement cost.

- 18. The Fuel Majors' historic accounts have been adjusted for accounting anomalies, leasing, etc. to better reflect the operating cash flow (NOPAT) sum of cash invested (Capital). The Commission also made similar modifications Including deducting goodwill, contracts, leasing, etc. for its "New Entrant" assessments. The Commission's approach is explicit in Figures D5, D6 and D7.
- 19. The Commission's ROACE reflects historical performance (grouped or averaged) but is a less nuance way of presented ROACE (by firm or partial industry). I maintain that it is Excess Profits (with or without a revaluation adjustment) that matter not just one, the ROACE ratio metric).

Normal returns

- 20. The Commission's cost of capital is the standard for the New Zealand capital market. For the purposes of this study, a cost of capital line is required that generally reflects historical rates and a timely forward rate. The Commission's range is 6.9% to 8.6%. The current forward rate is lower as a result of a lower risk-free rate.
- 21. The Commission has determined a range of 3.1% and 4.5% for the risk-free rate generally reflecting the rates adopted by a number of investment research analysis over the last year in estimating Z Energy's cost of capital. [CC Table C5]
- 22. However, the 10-year rate has been below 4% since November 2014. The current August monthly average rate is 1.13%³
- 23. The risk-free rates I have adopted are 2.45% (balance date December 2018) and 2.02% (balance date March 2019). For completeness the other variables I have assumed are: asset beta 0.8, leverage 34%, debt risk premium 2.5% and market risk premium of 7% in the standard Commission's cost of capital model. [Table A Panel C]

³ https://www.rbnz.govt.nz/statistics/b2

- 24. I observe that PricewaterhouseCoopers use 2.75% "... reflecting implied forward yields on longer term bonds."⁴ (March 2019)
- 25. For my financial analysis I have used the average month spot 10-year rate ex ante each financial year. The market current month spot 10-year rate is 1.13%. The profile of cost of capital changes through time from 9.9% in 2009 to 8.1% for December 2018 and 8.0% for March 2019.

Observations on Figures: D5 to D9

27. Figure D5

NZ v International 3 year rolling average ROACE 2014-2018

The obvious ROACE reversal of international peers and NZ fuel firms' positions has not been explained by the Commission. NZ fuel firms change from a spread of about negative 15% points in 2007 to positive 15% in 2018. It looks like two offsetting cycles. What economics underlie the reversal?

I note the international comparator set includes exploration and production businesses ("Upstream") which have specific accounting policies unrelated to NZ Fuels market ("Downstream"). For instance, E&P apply different accounting approaches including successful efforts or full cost accounting, specific reserve and fair value accounting, etc.⁵

A question: has the Commission included the group or upstream or downstream entities in the ROACE assessments? For instance, the ExxonMobil's 2017 Financial Operating Review includes Group ROACE ranging from 11.1% in 2017 back to 19.2% in 2013 [page 26]; Upstream 5.8% in 2017 back to 17.5% in 2013 and, Downstream 24.9% in 2017 back to 14.1% in 2013. [page 79]

28. Figure D6

NZ firms' 3 year rolling average ROACE 2004-2018

The 3-year rolling average disguises the actual change in Excess Returns in 2019. The Return on Capital has fallen from 26.9% to 16.8% or -10.1% points on a simple average basis. The Commission's Figure 6 chart may be misleading. [**Table A** Panel **B**]

⁴ <u>https://www.pwc.co.nz/pdfs/2019pdfs/cost-of-capital-report-1.pdf</u>

⁵ Antill Nick, K Lee, <u>Company valuation under IFRS</u>, 2nd 2005, 263-273.

29. Figure D7

NZ firms v NZX 3 year rolling average ROACE 2012-2018

The NZX companies are weighted on a capital basis. It is unclear whether NZ fuel firms are measured on the same basis (refers to "average ROACE". [D171 and D172])

Some NZX companies revalue "generation structures and plant" on a regular basis. The asset revaluation is added to assets and between equity and deferred tax. The holding gains arising does not pass through the Income Statement (the BP New Zealand issue [B76 to B79]). For instance, Meridian Energy Annual Report discloses [p118] that the net book value of fixed assets is \$8.6b relative to historical carrying value of just \$2.5m.⁶ Has the Commission adjusted the NZX 50 data as it suggests should be done in D171.4?

The conclusion at D172 may need to be reviewed.

The chart shows the NZX 50 (minus 3 banks) rolling 3-year average ROACE ranging from just below 5% in 2012 to about 7% in 2018. The ROACE appears to be below the average cost of capital for all years.

30. Figure D8

NZ firms' High ROACE 2016-2018

Again, this chart disguises the fall in ROACE in 2019 (as shown in Table A Panel B).

31. Figure D9

Major firms v Gull/smaller companies annual average excess return 2016-2018

Based on the chart the total Excess Profits were approximately \$398m, split \$360m Fuel Majors) and \$35m for Gull et al. The Fuel Major's dominance on a dollar basis is stark: 91%. by size.

Based on my analysis the Fuel Majors have suffered a negative change of 6.6% on a weighted average basis in the 2019 financial year from \$517m in 2018 to \$316m in 2019, a change of -\$201m [**Table A** Panel **D**]. The return on capital falls by 10.1% points [**Table A** Panel **B**].

⁶ As indicated by the size by market capitalisation at \$32b, the 5 listed generators and retailers are material to the assessments.

13/09/2019	9 10:30										3 Fuel	Maiors	Partial In	dustrv
											0.40	inajoro	Backward	
Fuel	Market Study		1	2	3	4	5	6	7	8	9	10		
	mance Summary		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
i chion	nance ourninary	\$m	2003	2010	2011	2012	2010	2014		Financial yea				606
Panel A	NOPAT and Capital													
	NOPAT													
	Z Energy						109	135	61	135	356	364	313	
	BP NZ		108	76	128	148	80	61	44	113	162	285	212	
	ExxonMobil		(93)	37	28	40	17	65	(19)	12	96	150	77	
	total		16	113	156	188	206	261	86	260	614	799	602	
	Average Capital													
	Z Energy						715	678	703	686	1,231	1,764	1,849	
	BP NZ		799	879	970	893	853	957	1,024	945	929	1,182	1,255	
	ExxonMobil		479	488	513	496	482	526	507	432	381	417	469	
	total		1,278	1,367	1,483	1,389	2,050	2,161	2,235	2,063	2,541	3,363	3,573	
	Channe in conital			00	110	(04)	664	111	74	(474)	470	000	010	
	Change in capital			89	116	(94)	661	111	74	(171)	478	822	210	
Panel B	Return on Capital													
	Z Energy						15.2%	19.9%	8.7%	19.7%	28.9%	20.6%	16.9%	
	BP NZ		13.6%	8.6%	13.2%	16.6%	9.4%	6.4%	4.3%	12.0%	17.4%	24.1%	16.9%	
	ExxonMobil		-19.4%	7.5%	5.5%	8.0%	3.6%	12.4%	-3.8%	2.7%	25.3%	35.9%	16.5%	
	simple ave.		-2.9%	8.1%	9.3%	12.3%	9.4%	12.9%	3.1%	11.5%	23.9%	26.9%		
	· · ·													
	Change in return on capital	%points		11.0%	1.3%	3.0%	-2.9%	3.5%	-9.8%	8.4%	12.4%	3.0%	-10.1%	
Panel C	Cost of Capital													
	Z Energy	Mar				9.7%	9.1%	9.2%	9.0%	8.5%	8.5%	8.4%	8.0%	7.79
	BP NZ	Dec	9.9%	10.0%	10.3%	9.7%	8.9%	9.2%	9.3%	8.8%	8.7%	8.4%	8.1%	
	ExxonMobil	Dec	9.9%	10.0%	10.3%	9.7%	8.9%	9.2%	9.3%	8.8%	8.7%	8.4%		
	simple ave.	Dee	9.9%	10.0%	10.3%	9.7%	9.0%	9.2%	9.2%	8.7%	8.6%	8.4%	-	
	· · · · ·													
	Change in cost of capital	%points		0.1%	0.3%	-0.6%	-0.7%	0.2%	0.0%	-0.5%	-0.1%	-0.2%	-0.3%	-0.2%
Panel n	Excess Profit													
	Z Energy						44	73	(2)	77	251	216	166	
	BP NZ		29	(12)	28	61	4	(27)	(51)	30	81	186	111	
	ExxonMobil		(140)	(12)	(25)	(8)	(26)	17	(66)	(26)	63	115	39	
	total	-	(140)	(12)	(23)	53	20)	63	(119)	81	395	517	316	
			(,	()					(110)	•••		•		
	%weighted ave. return		-8.7%	-1.8%	0.2%	3.8%	1.1%	2.9%	-5.3%	3.9%	15.6%	15.4%	8.8%	
	Ohanna in mainta d'Al ma			0.00/	2.0%	0.00/	0.70/	4.00/	0.00/	0.00/	44.00/	0.00/	0.50/	
	Change in weighted % retur	n %points		6.9%	2.0%	3.6%	-2.7%	1.8%	-8.2%	9.3%	11.6%	-0.2%	-6.5%	
	Change in excess \$ profit			87	27	50	(31)	40	(182)	200	315	121	(201)	
Panel E	Excess Profit Margin						0.10/	40 70/	0.00/	44.00/	00.40/	40.00	0.001	
	Z Energy		0 = 11		0.001	0.544	6.1%	10.7%	-0.3%	11.2%	20.4%	12.2%		
	BP NZ		3.7%	-1.4%	2.9%	6.9%	0.5%	-2.8%	-5.0%	3.2%	8.7%	15.7%	8.8%	
	ExxonMobil		-29.3%	-2.5%	-4.8%	-1.7%	-5.3%	3.2%	-13.1%	-6.1%	16.6%	27.5%		
	simple ave.		-12.8%	-1.9%	-1.0%	2.6%	0.4%	3.7%	-6.1%	2.8%	15.2%	18.5%	8.7%	
	Change in excess margin	%points		10.9%	1.0%	3.6%	-2.2%	3.3%	-9.8%	8.9%	12.5%	3.2%	-9.8%	

Replacement cost and Tobin's q

- 32. Tobin's q provides a measure of market entry/expansion attractiveness. The gap between market value⁷ and estimated depreciated replacement cost⁸ signals future potential economic value. A new entrant will recognise the value enhancing prospects of a possible entry discount, albeit at one point of time as presented by the Commission. The Tobin q for Z Energy is 2.05 (or 1.95 after correcting for the number of Z Energy shares in the valuation). ⁹ The value gap is \$1.97m (or \$1.79m after my correction) [Table B Panel A]
- 33. To quote the Commission:

"Tobin's q estimates, albeit for only a few firms, indicate that investors expect ongoing returns well in excess of the levels that should attract either new entrants or expansion given the current cost to enter or expand." [E11.3]

The value gap can be rationalised as the sum of investors' expected future excess profit or return, including real option value.

Persistence of Excess Returns

- 34. Tobin's q is a broad indicator of the prospect of future excess profits or returns, i.e. future economic income less a capital charge. The "future earnings" are more than just EBITA/EBIT/Net Income as implied by analysts' forecasts. [E27-29 and Figure E1] Margins may rise but not result in a change in excess profits. Excess profits factor in all costs, including a changing cost of capital.¹⁰
- 35. Another view of future expected profitability can be derived from investment analysts' research and expectations. Also, the unbiased implied performance can be inferred from the capital markets as reflected in the current share price. What future EVA growth (or decay) does the market expect to equate with today's share price?

⁷ The Market Value estimation includes deferred tax which largely results from revaluations. [Table D2]

⁸ The Replacement Cost for Z Energy includes "construction in progress" and "software in progress" totalling \$42m would not normally apply to a new entrant/expansion. [Table D5]

⁹ The Commission has assumed there are 429m shares issued [TableD2]. See note 20 at page 95 of the 2019 Z Energy Annual Report and issued shares of 400m. Also, NZX <u>https://www.nzx.com/instruments/ZEL</u>

¹⁰ The future excess profits are a function of a combination of business drivers: revenue, volumes, margins, investment and cost of capital and not just one or two of them.

- 36. Another approach for understanding the value gap derived by the Tobin q approach is the concept of Future Growth Value (FGV).¹¹ This approach identifies the timing and extend of expected excess profits/returns implicitly baked into the share price of Z Energy.
- 37. Tobin's q and FGV are similar concepts.

Market Value - Capital = Net Present Value [termed "Market Value Added']

[noting q: MV - RC = Value Gap], and

Net Present Value = present value of future expected Excess Returns/EVA

We can now split the Market Value into 2 parts:

MV = Capital + Current Operating Value (COV),

Where,

COV = capitalised current Excess Profits

+ Present value of future improvement in Excess Profits

38. **Table B** analyses the implicit FGV for Z Energy.

¹¹ O'Byrne, Stephen F., A Better Way to Measure Operating Performance (or Why the EVA Math Really Matters) (Summer 2016). Journal of Applied Corporate Finance, Vol. 28, Issue 3, pp. 68-86, 2016. Available at SSRN: <u>https://ssrn.com/abstract=2876919</u> or <u>http://dx.doi.org/10.1111/jacf.12194</u>

Table									2	Fuel Majo	re (Dartia	Inductor
12/09/201	9 10:49			_					3	ruei majoi	Backward	
Fuel	Market S	tudy										
				-	0	1 2014	2	3	4	5 2018	6	
Perform	nance Indic	ators		\$m	2013	2014	2015	2016	2017	2018	2019	2020
Panel A	Commerc	e Commissi	on Tobin's q	ψΠ								
r anor / t	Z Energy	e commissi	on robins q									correctior
	Market Va	ue	Table D2								3,850	3,668
	Replaceme	ent cost (DRC	Table D5								1,880	1,880
	Value Gap										1,970	1,788
											0.05	4.05
	Tobin's q										2.05	1.95
Panel B		ss Profits Ap	nroach									11/09/2019
	Share price		proach	\$	3.63	3.91	4.82	7.84	7.45	7.26	6.33	6.30
				•								
	Market Va	ue (MV)				1,869	2,199	3,432	4,136	3,890	3,583	beg. Capital
												1,924
			adj Historic cost	.)	613	742	664	707	1,754	1,774	1,924	
	Market Va	ue Added (M	VA)			1,127	1,535	2,725	2,382	2,116	1,659	
	Change in	M\/A					408	1,190	(343)	(266)	(457)	
	Change in	WIVA					400	1,190	(343)	(200)	(437)	
	Ratio	(MV/Capital)				2.5	3.3	4.9	2.4	2.2	1.9	
		· · · · · /				-		-				
Panel C	Future Gr	owth Value A	Analysis									
	Excess Re				44	73	(2)	77	251	216	166	
	Cost of Ca	pital			9.1%	9.2%	9.0%	8.5%	8.5%	8.4%	8.0%	7.7%
	0		(00)()									
		perating Val	d as a present valu	· ~)	484	793	(22)	906	2,953	2,571	2,075	
	Capital	ins (capitalised	as a present vait	le)	404	793	664	707	1,754	1,774	1,924	
	COV					1,535	642	1,613	4,707	4,345	3,999	
	Implied F	uture Growth	n Value (FGV)									
	MV					1,869	2,199	3,432	4,136	3,890	3,583	
	COV					1,535	642	1,613	4,707	4,345	3,999	
	FGV					334	1,557	1,819	(571)	(455)	(416)	
	FGV as %	of MV				17.8%	70.8%	53.0%	-13.8%	-11.7%	-11.6%	
	10140 //					11.070	10.070	00.070	10.070	11.170	11.070	
	Implied Im	provement(de	cay)									
Panel D	Return Ra											
	Return on					19.9%	8.7%	19.7%	28.9%	20.6%	16.9%	
	Cost of Ca	pital				9.2%	9.0%	8.5%	8.5%	8.4%	8.0%	
	Ratio					2.2	1.0	2.3	3.4	2.5	2.1	
						2.2	1.0	2.0	0. r	2.0	- . 1	
Panel E	note											
Capital						742	664	707	1,754	1,774	1,924	
	cess Profits	capitalised				793	(22)	906	2,953	2,571	2,075	
COV						1,535	642	1,613	4,707	4,345	3,999	
MV						1,869	2,199	3,432	4,136	3,890	3,583	
FGV						334	1,557	1,819	(571)	(455)	(416)	

In Panel **B** the MVA is estimated by deducting Operating Capital from the its Market Value based on Z Energy's closing annual share price. This has been calculated for each year since 2014. The annual change in MVA and the ratio of MV to Capital is calculated providing a time series of regular market expectations.

39. In Panel C the COV is the Capital plus the sum of the capitalised Excess Profits. The FGV is the residual of MV less COV. It is negative for the last three years. Expressed as a percentage of MV, FGV is negative 11 to 14%. This is an expression of the unbiased market expectations.

- 40. The market price for Z Energy implicitly assumes that given current Excess Profits are maintained the future growth in future Excess Profits will be reduced by a net present value of around \$416m to justify the current share price. Of course, negative Excess Profits may be a combination of COV and FGV.
- 41. FGV is an answer to the Commission's request for reliable forward-looking information. The market is saying the future Excess Profits are expected to decline. [E7.3] The equivalent change in annual Excess Profits could be estimated by an annuity calculation.
- 42. Panel D shows the ratio of MV to Capital since 2014. Broadly, it can be compared to Tobin' q in Panel A and ratio of MV to Capital in Panel B. [note; some definitions may be different to the Commissions. No reconciliation has been attempted]

Economic Margin update

43. The economic margin is what matters: Excess Profits divided by Sales.

A backward-looking summary of the Z Energy's economic margin performance is presented in **Table C**. The Net Economic Margin should be contrasted with the rising fuel margins shown in the Commission's Figure X2 and X32.

Table C								
13/09/2019 10:30							Z	Energy
Economic Margin Analysis								
	0	1	2	3	4	5	6	7
\$m	2012	2013	2014	2015	2016	2017	2018	2019
Sales		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
 Cash Operating Expenses 		95.9%	94.8%	96.6%	93.0%	88.5%	89.8%	92.0%
= Operating Margin		4.1%	5.2%	3.4%	7.0%	11.5%	10.2%	8.0%
 Net Working Capital Charge 		0.8%	0.7%	0.6%	0.5%	0.5%	0.5%	0.5%
 PP&E Charge 		2.1%	2.6%	3.3%	4.1%	4.4%	4.3%	3.9%
 Other Asset Charge 		0.0%	(0.3%)	(0.5%)	(0.7%)	(0.2%)	0.2%	0.1%
 Adjusted Goodwill Charge 		0.0%	0.0%	0.0%	0.1%	0.3%	0.4%	0.5%
Total Asset Ownership Charges		2.9%	3.0%	3.5%	3.9%	5.0%	5.5%	5.0%
= Net Economic Margin		1.2%	2.2%	(0.1%)	3.1%	6.5%	4.7%	3.0%
x Adjust Sales		3,558	3,371	3,064	2,521	3,863	4,570	5,450
= EVA		44	73	(2)	77	251	216	166

Preliminary conclusions:

- 1. The historic Excess Profits and Returns on Capital for the Fuel Majors have been at a high level.
- 2. However, in the 2018/19 financial year the Excess Profits fell by about a half.
- 3. With the drop in current in Excess Profits their persistence is questionable. It can be inferred that the market expectations are for a future decline in Excess Profits of some \$400m.
- 4. The Fuel margins rose while the economic margins fell.
- 5. There is a need for more transparency of underlying data and application.

13/09/2019 10:49							7	Energy
Income Statements		0	1	2	3	4	5	
	Mar	2013	2014	2015	2016	2017	2018	2019
Revenue						Caltex 10mths		
Fuel	\$m	3,465	3,287	3,003	2,457	3,794	4,487	5,342
Other	φΠ	56	59	61	64	69	23	45
Convenience retail							60	63
Chemicals		37	25					
Total Revenue		3,558	3,371	3,064	2,521	3,863	4,570	5,450
Purchases of crude & product		2,511	2,311	2,073	1,417	2,010	2,579	3,450
Exercise and carbon expenses		569	546	562	569	941	1,011	1,091
Primary distribution		24	25	25	27	41	56	48
Operating expenses		27	20	20	21		00	-10
Employee benefits		41	50	44	53	69	69	
Secondry distribution		41	46	44	45	64	71	
Selling commissions		59	40 56	59	45 59	59	59	
On-site expenses		40	46	51	52	57	59	
Administration & other expenses		40	40	12	15	24	31	380
Acquisition costs		40	4	12	15	24	51	500
Lease cost		16	22	22	22	30	31	33
Professional fees		-	19	22	39	30	22	
			19	21	23	28	22	
Marketing expenses		- 20	19	14	23 13	28	28	
Storage & handling		20	8	6	6	-	6	
						6		
(Gains)/losses on foreign exchange		10	(10)	11	15	(7)	(1)	
Losses on commodity transactions		000	3	16	11	200	207	440
Total operating expenses		289	281	321	353	389	397	413
Share of earnings of associates net of tax		-	(5)	10	23	6	1	(1
EBITDAF		165	203	93	178	488	528	447
Depreciation & amortisation		39	39	43	41	89	102	122
Interest income		(3)	(26)	(23)	(26)	(22)	(16)	(52
Financing expense		-	51	57	58	78	68	103
Fair value movements interest rate derivat	tives	-	2	7	6	(3)	9	4
Impairment		-	(1)		5	5		
Loss (gain) on sale of PP&E		(41)	4		1	1	(4)	
Decommissioning & restoration provision				3	7	(2)	3	18
		(5)	69	87	92	146	162	195
Profit Before Tax		170	134	6	86	342	366	252
Current Tax		30	44	2	23	108	109	84
Deferred Tax/Adjustments		3	(5)	(3)	(1)	(9)	(6)	(18
Total Income Tax Expense		33	39	(1)	22	99	103	66
Profit After Tax		137	95	7	64	243	263	186

13/09/2019 10:49									7 F	Inergy
Financial Statement	le l			0	1	2	3	4	5	<u>.nergy</u>
	.5	Mar	2012	2013	2014	2015	2016	2017	2018	2019
Assets		\$m		2010	2014	2010	2010	Caltex 10m		2010
Cash & equivalents	i	ψm	17	115	178	206	76	9	72	111
Held-for-Sale Asset			-	2	-	-	-	-	9	27
Acquistion deposit			-	-	_	_	79	-	-	
Accounts receivable	e & prepayments		245	241	227	163	155	278	337	499
Inventories			671	483	483	313	212	474	639	578
Inventory Adjustme	nt Reserve		0/1	(1)	(4)	(9)	(9)	(10)	3	- 570
			- 671	482	479	304	203	464	642	578
Income tax receival			-	-	-	16	203	- 404	-	- 570
Derivative financial			- 0	-	- 1	4	20	- 4	- 4	- 9
Intercompany balar			385	- 720	-	-	-	-	- 4	9
intercompany balar			1,318	1,560	- 885	- 693	- 549	- 755	- 1.064	1,224
Goodwill			,	-		-	-	158	1,004	1,224
Goodwill			-	-	-	-	-	001	100	19
Intangible assets b	rands/contracts		-	-	-	-	-	463	463	482
Software in Progres	S		-	-	-	-	-	-	15	37
Intangible assets e	mission units		4	16	20	21	33	84	128	8
Intangible assets of	ther		28	20	22	19	42	40	100	119
Gross intangibles			32	36	42	40	75	587	706	646
accumlated amortis	ation		(15)	(9)	(7)	(8)	(31)	(52)	(114)	(171
Net Intangibles			17	27	35	32	44	535	592	475
Derivatives financia	linstruments		-	-	12	6	11	5	5	17
Deferred tax			- 7	- 4	-	-	-	-	-	- 17
Other non-current a	esote		2	3	- 1	- 1	- 1	- 4	- 3	- 3
Investments associ			1	1	96	105	115	116	3	4
Investments at BV	ates/subsidiaries		2	-	-	-	-	-	110	101
Desilelierer			454	100	50	50	440	405	440	400
Buildings			154	108	52	59	113	135	118	122
Land & improvement	າເຮ		72	107	154	156	206	305	324	311
Plant & machinery			313	351	289	226	258	341	369	393
Terminal plant			- 70	-	-	110	115	183	183	195
Capital Work in Pro	gress		78	33	47	47	67	48	33	25
Gross PP&E			617	599	542	598	759	1,012	1,027	1,046 (216
Accum. Depreciation			(311)	(288)	(31)	(62)	(85)	(112)	(157)	· · ·
Net PP&E			306	311	511	536	674	900	870	830
Total			1,652	1,906	1,540	1,373	1,394	2,473	2,805	2,847

								ZE	Inergy
		0	1	2	3	4	5	6	7
Equity and Liabilitie	S	2012	2013	2014	2015	2016	2017	2018	2019
Accounts payable		452	499	410	335	263	378	585	666
Accrual/other liabilit	es	-	-	-	-	-	35	96	-
Employee benefits		8	10	14	16	15	18	15	11
Income tax payable		19	4	12		-	24	61	19
Provisions		5	4	11	10	6	18	26	23
Loan & bonds					-	147	51	150	135
Derivative financial	nstruments	10	5	2	6	9	10	17	13
Intercompany balan	ces	313	315	-	-	-	-	-	-
		807	837	449	367	440	534	950	867
Other liabilities			18	17	17	15	14	16	20
Provisions		21	24	21	27	37	50	47	68
Derivative financial	nstruments		-	10	9	21	12	33	26
Deferred tax			-	22	18	32	170	156	143
Loan & bonds		298	430	430	430	283	991	746	803
		319	472	500	501	388	1,237	998	1,060
Non-controlling inter	rest	-	-	-	-	-	-	-	18
Share Capital		527	10	432	432	431	430	429	429
Employee share res	erve	-	-	(2)	(3)	(3)	(3)	(4)	(5)
Hedging Reserves		-	-	-	-	-	-	(2)	(5)
Asset revaluation re	serve		587	141	135	232	235	250	258
Investment Revalua	tion Reserve	-	-	-	-	-	-	(4)	(13)
Retained Earnings		-	-	20	(59)	(94)	40	188	238
Equity		527	597	591	505	566	702	857	920
Total		1,652	1,906	1,540	1,373	1,394	2,473	2,805	2,847

ZEL3							
13/09/2019 10:49 Economic Value Added						ZE	Energy
History 2013 to 2019							
March \$m	2013	2014	2015	2016	2017	2018	2019
Performance Summary							
NOPAT	109	135	61	135	356	364	313
Avg Capital	715	678	703	686	1,231	1,764	1,849
NOPAT/Avg Capital	15.2%	20.0%	8.7%	19.7%	28.9%	20.6%	17.0%
Cost of Capital (C*)	9.1%	9.2%	9.0%	8.5%	8.5%	8.4%	8.0%
Spread Method							
Profit Spread R-C*	6.1%	10.8%	(0.3%)	11.2%	20.4%	12.2%	9.0%
x Avg Capital	715	678	703	686	1,231	1,764	1,849
EVA = (R-C*) x Average Capital	44	73	(2)	77	251	216	166
Residual Income Method							
NOPAT	109	135	61	135	356	364	313
Cost of Capital (C*)	9.1%	9.2%	9.0%	8.5%	8.5%	8.4%	8.0%
x Avg Capital	715	678	703	686	1,231	1,764	1,849
Capital Charge	65	62	63	58	105	148	148
EVA = NOPAT-Capital Charge	44	73	(2)	77	251	216	166
Increase in EVA		29	(75)	79	174	(35)	(50)
Cumulative EVA	44	117	115	192	443	659	825
Market Valuation							
Performance Index R/C*	1.67 x	2.17 x	0.97 x	2.32 x	3.40 x	2.46 x	2.12 x
Price/Adj Book Ratio	0.03 x	3.58 x	4.91 x	7.63 x	4.98 x	3.70 x	2.90 x
Return Div & Capital Gain		53.5%	28.9%	67.8%	(1.5%)	1.4%	(7.9%)
Value of \$1 Investment	1.00	1.54	1.98	3.32	3.27	3.32	3.06

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10/09/2019 22:28								
NOPAT Operating App	roach						ZE	nergy
History 2013 to 2019								
March	\$m_ #	2013	2014	2015	2016	2017	2018	2019
Sales		3,558	3,371	3,064	2,521	3,863	4,570	5,450
Cost of Goods Sold		3,104	2,882	2,660	2,013	2,992	3,646	4,589
Operating Expenses		215	262	260	290	342	336	0
Depreciation/Amortisation		39	39	43	41	89	102	122
Administration & Other		48	4	12	15	24	31	380
Other Operating Expenses		10	(7)	30	33	(9)	2	18
Lease & Rental Expenses		16	22	22	22	30	31	33
Int Exp Non-Cap Leases		(8)	(11)	(11)	(11)	(15)	(15)	(17)
(Incr) Employment Benefits		8	0	(16)	1	(3)	3	4
(Incr) Provisions		(7)	(4)	(5)	(6)	(25)	(5)	(18)
(Incr) NOPAT & Capital Adjustme	ents	0	0	0	(25)	(14)	0	(1)
(Incr) Accum Intangible Amortisa	ition	(9)	2	(1)	(23)	(21)	(62)	(57)
(Incr) Inventory Reserve Adjustm	ent	(1)	(3 <u>)</u>	(5 <u>)</u>	0_	(1)	13	(3 <u>)</u>
Total Operating Expenses	_	3,415	3,186	2,989	2,350	3,389	4,082	5,050
Adjusted EBIT	_	143	185	75	171	474	488	400
Operating Taxes		34	50	14	36	118	124	86
NOPAT	_	109	135	61	135	356	364	313

10/09/2019 22:28								
Operating Capital Approach							ZE	Energy
History 2013 to 2019								
March	2012	2013	2014	2015	2016	2017	2018	2019
Net Accts Receivable	245	241	227	163	155	278	337	499
Inventory Reserve Adjustment	0	1	4	9	9	10	(3)	0
Net Inventory	671	482	479	304	203	464	642	578
Other Current Assets	0	0	0	16	28	0	0	0
Current Operating Assets	916	724	710	492	395	752	976	1,077
Accounts Payable & Other	457	509	424	335	263	413	681	666
Tax Payable	19	4	12	0	0	24	61	19
NIBCLs	476	513	436	335	263	437	742	685
Net Working Capital	440	211	274	157	132	315	234	392
Net Prop Plant & Equip	306	311	511	536	674	900	870	830
Capital Work in Progress	(78)	(33)	(47)	(47)	(67)	(48)	(33)	(25)
PV of Non-Cap Leases	122	122	179	182	188	273	305	343
Adjusted Prop Plant & Equipmen	350	400	643	671	795	1,125	1,142	1,148
Goodwill	0	0	0	0	0	158	158	193
Accum Intangible Amortisation	0	9	7	8	31	52	114	171
Adjusted Goodwill	0	9	7	8	31	210	272	364
Intangible Assets	17	27	35	32	44	535	592	475
Operating Investments	0	0	13	10	19	9	9	26
Other Assets	2	3	1	1	1	4	3	3
Capital Adustments a/tax	0	(41)	(37)	(29)	(28)	(19)	(27)	(25)
NOPAT & Capital Adjustments	0	0	0	0	25	39	39	40
Revaluation Reversal Soft cwip	0	0	(172)	(168)	(280)	(294)	(334)	(356)
(Net Deferred Taxes)	7	4	(22)	(18)	(32)	(170)	(156)	(143)
Other Assets	26	(7)	(182)	(172)	(251)	104	126	20
Capital	816	613	742	664	707	1,754	1,774	1,924

Income Statisticationalis 0 1 2 3 4 5 9 7 8 9 Revenue 5000 2004 2010 2011 2013 2014 2015 2014 2015 2014 2015 2014 2015 2014 2015 2014 2015 2014 2015 2014 2015 2014 2016 2017 53 2016 2017 53 2016 2017 213 286.861 3.269.671 2.748.943 2.690.71 2.428 2.561 3.621.443 2.686.89 3.155.488 3.752 7.717 7.872 7.804 6.226 6.477 7.872 7.804 1.571 8.498 1.644 8.417 C.577 2.6859 7.744 1.517 8.498 1.644 8.417 C.577 2.6859 7.744 1.5171 8.498 1.645 1.645 1.645 1.645 1.645 1.6457 2.665 7.741 1.5171 8.668 1.7571 2.6659 7.7	BP1												PD No.	v Zealand
Income Statement and Notes Dec 2009 2010 2011 2012 2018 2014 2016 2017 OII Products 300 3,221,443 2,896,984 3,155,488 3,476,246 3,268,421 3,286,671 2,748,943 2,691,002 2,907,195 3, Non-oil and Other Revenue 3,621,443 2,869,984 3,155,488 3,476,246 3,564,271 3,286,671 2,748,943 2,691,002 3,155,483 3,476,246 3,564,271 3,286,671 2,748,943 2,691,002 3,155,483 3,476,246 3,564,271 3,286 5,153 4.966 5,077 4,425 Interest 1,533 5,003 7,750 7,77 7,77 7,70 7,807 7,802 8,633 7,549 18,227 13,096 Other 45,373 20,696 39,646 39,613 42,343 5,193 36,333 7,385 46,816 4,171 7,245 Change Inventorises of instand Consumables Used 3,126,512 2,466,236 2,678,692 2,943,385 <td< th=""><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>						-								
Revenue STOP Stop <		1.1.1.1	-											
Oil Products 3,261,443 2,669,894 3,155,488 3,476,246 3,664,271 3,268,681 3,269,671 2,748,943 2,661,002 2,907,195 3,225,131 2,225,131 2,245,131 2,255,131 2,246,943 2,654,943 3,266,671 2,748,943 2,669,1002 3,158,863 3,476,246 3,564,271 3,286,861 3,269,671 2,748,943 2,691,002 3,158,863 3,476,246 3,564,271 3,286,861 3,269,671 2,748,943 2,691,002 3,158,863 3,476,246 3,564,271 3,286,861 3,269,671 2,748,943 2,691,002 3,158,863 3,16 4,674 8,147 Cost Rescoveries 2,559 3,237 3,752 7,70 7,77 7 7 7 7 7 7 7 7 2,2350 4,233 16,470 16,020 2,851,04 2,184,409 2,035,039 2,352,00 2,433,05 2,251,03 3,549 16,570 2,356,33 7,539 4,537 2,045,03 2,245,103 2,245,103 2,245,103 2,245,103		nd Notes			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Non-oil and Other Revenue 3,621,443 2,680,894 3,156,488 3,478,246 3,626,691 3,286,691 2,748,943 2,691,002 3,158,268 3,168,268 3,168,268 3,168,268 3,168,268 3,168,268 3,289,671 2,748,943 2,691,002 3,158,268 3,168,268 3,168,268 3,168,268 3,158,268 3,168,268 3,158,268 3,168,268 3,168,268 3,168,268 3,158,268 3,158,268 3,158,268 3,168,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,158,268 3,128,577 2,255 2,36,33 75,395 46,831 64,571 13,296 12,255 13,26,512 <td></td> <td></td> <td>\$'000</td> <td></td> <td>0.000.004</td> <td>0.455.400</td> <td>0.470.040</td> <td>0 504 074</td> <td>0.000.004</td> <td>0.000.074</td> <td>0 740 040</td> <td>0.004.000</td> <td>0.007.405</td> <td>0.444.040</td>			\$'000		0.000.004	0.455.400	0.470.040	0 504 074	0.000.004	0.000.074	0 740 040	0.004.000	0.007.405	0.444.040
Rent 3.621.443 2.869.894 3.155.488 3.478.246 3.269.671 3.269.671 2.748.943 2.691.002 3.158.828 3.47 Rent 1.530 5.100 7.856 7.447 2.567 3.966 5.153 4.996 5.077 4.425 Cost Recoveries 2.559 3.237 3.752 7.701 7.72 8.182 7.902 5.864 6.121 5.379 Dividends - - 7 7 7 7 7 7 7 7 8.182 7.902 5.864 6.137 7.575 4.633 6.4570 Share of profit associate 3.4313 7.987 2.0077 12.691 16.050 7.951 10.293 3.6.333 75.395 46.831 6.4570 Cost of sales 3.152.512 2.465.208 2.676.692 2.943.385 3.097.719 2.785.200 2.851.104 2.184.009 2.335.392 2.335.392 2.335.392 2.335.392 2.362.502 2.825.108 2.353.59 2.325.5				3,621,443	2,869,894	3,155,488	3,478,246	3,564,271	3,268,681	3,269,671	2,748,943	2,691,002		
Rent Interest 2,728 354 2,911 5,336 8,070 5,392 5,153 4,996 5,077 4,425 Cost Recovers 2,559 3,237 3,752 7,701 7,877 2,869 7,866 5,441 8,926 4,614 8,147 Other 4,243 4,018 5,043 6,431 7,757 28,069 7,841 15,770 8,182 7,709 7	Non-oil and Other Rev	enue		0.004.440	0.000.004	2 455 400	0.470.040	0.504.074	2 000 004	2 000 074	0 740 040	0.004.000		257,630 3.698.842
Interest 1,530 5,100 7,645 7,447 2,587 3,966 5,244 8,026 4,674 8,147 Other Cost Recoveries 2,559 3,752 7,701 7,767 28,182 7,802 5,864 6,121 5,379 Other 4,243 4,018 5,043 6,431 7,777 <				3,621,443	2,869,894	3,155,488	3,478,240	3,564,271	3,208,081	3,269,671	2,748,943	2,691,002	3,158,820	3,098,842
Interest 1,530 5,100 7,645 7,447 2,587 3,966 5,244 8,026 4,674 8,147 Other Cost Recoveries 2,559 3,752 7,701 7,767 28,182 7,802 5,864 6,121 5,379 Other 4,243 4,018 5,043 6,431 7,777 <	Dent			0 700	254	2 0 1 1	E 226	9.070	F 202	E 150	4 006	E 077	4 405	4.363
Cost Recoveries 2,559 3,237 3,752 7,701 7,872 8,182 7,802 5,864 6,121 5,379 Dividends - - 7 <td></td> <td>4,363</td>														4,363
Other 4.243 4.018 5.043 6.743 7.757 26.695 7.841 15.710 8.499 18.046 Gain on sale non-current assets 34.313 7.967 20.077 12.691 16.050 7.951 10.293 37.549 18.227 13.096 Gain on sale non-current assets 45.373 20.696 39.646 39.613 42.343 52.193 36.333 75.395 46.831 64.570 Change Inventories of finished Goods & WIP - - - 2.482.103 2.425.103 2.435.117.177.177.177.177.177.177.177.177.17							,	1		- 1			- 1	
Dividends 1 7														6,900
Share of porfit associate Gain on sale non-current assets 34,313 7,967 20,077 12,891 16,050 7,951 10,293 37,549 18,227 13,096 Gain on sale non-current assets 45,373 20,096 39,646 39,613 42,343 52,193 36,333 75,395 46,831 64,570 Raw Materials and Consumables Used 3,126,512 2,466,236 2,678,692 2,943,385 3,097,719 2,785,260 2,851,104 2,184,409 2,033,638 2,382,000 2,8 Cost of sales 3,126,512 2,466,236 2,678,692 2,943,385 3,097,719 2,785,260 2,851,104 2,184,409 2,033,638 2,382,000 2,8 Cost of sales 10,45 44,40 366 89 479 171 420 2,47 171 176 16,991 Depreting lease rentals 16,056 16,724 16,422 18,77 19,892 36,476 18,178 19,911 117,176 15,035 15,527 19,911 Freight costs 16,572										7,841	15,710	8,499	18,046	17,743
Gain on sale non-current assets 45,373 20,696 39,646 39,613 42,343 52,193 36,333 75,395 46,831 64,570 Change Inventories of finished Goods & WIP 3,126,512 2,466,236 2,678,692 2,943,385 3,097,719 2,785,260 2,851,104 2,184,409 2,033,639 2,382,908 2,425,103 2,445,103 1,41,103 1,647 1,6117 4,944,115 4,944,155		4-								40.000	07.540	40.007	40.000	10.998
Additional state Additional state<				34,313	7,987	20,077	12,691	16,050	7,951	10,293				10,998
Change Inventories of finished Goods & WIP (42,195) Raw Materials and Consumables Used 2,425,103 2,425,1103 1,411,103,110,103	Gain on sale non-cure	nt assets		45.070	00.000	20.040	20.042	40.040	50.400	20.000				
Raw Materials and Consumables Used 2,425,103 2,2				45,373	20,696	39,646	39,013	42,343	52,193	30,333	75,395	40,831	64,570	45,078
Raw Materials and Consumables Used 2,25,103 2,2 2,25,103 2,2	Ohanna lauratarian of	fairly and O											(40.405)	(00 550)
Cost of sales 3,126,512 2,466,236 2,678,692 2,943,385 3,097,719 2,785,260 2,851,104 2,184,409 2,033,639 2,382,908 2,3 Employee expenses 77,824 74,476 67,918 73,799 77,154 77,850 79,877 88,775 92,656 94,115 Bad and doubful debts 1,045 440 366 89 479 171 420 247 271 17 Operating lease rentals 16,306 16,724 16,422 18,379 19,892 36,476 18,178 19,902 58,254 Freight costs 1 16,6306 16,724 16,422 18,379 19,892 36,476 18,178 19,901 16,190 13,687 15,327 19,911 Materials 171,099 149,018 106,190 1 15,386 5,805 5,423 Utilities 259,706 189,297 23,1276 256,838 232,513 232,330 242,569 19,053 30,782 85,778 <t< td=""><td></td><td></td><td></td><td>MP</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(36,550)</td></t<>				MP										(36,550)
Employee expenses 77,824 74,476 67,918 73,799 77,154 77,850 79,877 88,775 92,656 94,115 Bad and doubfuil debts 1,045 440 366 89 479 171 420 247 271 17 Operating lease rentals 16,306 16,724 16,422 18,379 19,892 36,476 18,178 19,354 17,764 16,991 Environmental costs 1 16,306 16,724 16,422 18,379 19,892 36,476 18,178 19,354 17,764 16,991 Freight costs 1 1 13,887 15,327 19,911 106,190 1 Materials 1 1 189,297 231,276 256,838 232,513 232,330 242,569 19,053 30,782 86,776 5,603 8,660 10,737 9,421 10,88 1,101 17,104 26,828 Advertising 6,112 5,684 6,897 5,603 30,762 86,876 <t< td=""><td></td><td>nsumables</td><td>s Used</td><td>2 400 540</td><td>0.400.000</td><td>0.070.000</td><td>0.040.005</td><td>2 007 740</td><td>0 705 000</td><td>0.054.404</td><td>0.404.400</td><td>0.000.000</td><td></td><td>2,966,335</td></t<>		nsumables	s Used	2 400 540	0.400.000	0.070.000	0.040.005	2 007 740	0 705 000	0.054.404	0.404.400	0.000.000		2,966,335
Bad and doubtful debts 1,045 440 366 89 479 171 420 247 271 17 Operating lease rentals 16,306 16,724 16,422 18,379 19,892 36,476 18,175 29,902 58,254 Freight costs 17,1099 149,018 106,190 1 Materials 13,687 15,327 19,911 Materials 5,58 5,805 5,423 Utilities 5,58 30,782 85,778 Brandfranchise costs 5,689 6,976 5,603 Repairs & maintenance 28,499 26,494 26,828 Advertising 1,843 1,101 1,701 2,054 1,843 1,011	Cost of sales			3,120,512	2,400,230	2,078,092	2,943,385	3,097,719	2,785,260	2,851,104	2,184,409	2,033,639	2,382,908	2,929,785
Bad and doubtful debts 1,045 440 366 89 479 171 420 247 271 17 Operating lease rentals 16,306 16,724 16,422 18,379 19,892 36,476 18,175 29,902 58,254 Freight costs 17,1099 149,018 106,190 1 Materials 13,687 15,327 19,911 Materials 5,58 5,805 5,423 Utilities 5,58 30,782 85,778 Brandfranchise costs 5,689 6,976 5,603 Repairs & maintenance 28,499 26,494 26,828 Advertising 1,843 1,101 1,701 2,054 1,843 1,011				77 004	74 476	67.019	72 700	77 164	77 950	70 977	00 775	02.656	04 115	98.767
Operating lease rentals 16,306 16,724 16,422 18,379 19,892 36,476 18,178 19,354 17,764 16,991 Environmental costs		_								- 1 -			. , .	96,767
Environmental costs Image:														18,703
Freight costs Image: state in the sta		s		16,306	16,724	16,422	18,379	19,892	36,476	18,178				
Fees & commissions Image: state of the second														90,208
Materials Materials Signal S														110,676
Utilities Control Contro Control <thcontrol< th=""> <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>25,843</td></t<></thcontrol<>														25,843
Other expenses 259,706 189,297 231,276 256,838 232,513 232,330 242,569 19,053 30,782 85,778 Brand/franchise costs Franditenance Franditenanc														5,120
Brand/franchise costs Image: Semaintenance Image: Semaintenance				050 700	400.007	004.070	050 000	000 540	000.000	040 500				9,476 99,701
Repairs & maintenance Image: constraint of the system of the				259,706	189,297	231,276	200,838	232,513	232,330	242,569				
Advertising		-												6,375
Legal costs 1,847 1,388 1,101 Travel expenses 1,843 1,701 2,054 Total other expenses 354,881 280,937 315,982 349,105 330,038 346,827 341,044 388,740 394,505 438,583 5 BBITDAF 29,367 29,430 316,855 27,403 25,059 23,196 30,502 31,212 33,447 32,145 Amortisation & impairment 1,954 2,987 2,688 1,760 110 185 1,061 1,096 30,102 31,244 29,433 Interest income 55,557 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current i 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Associate share of profits 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 7,32		e												27,873
Travel expenses 1,843 1,701 2,054 Total other expenses 354,881 280,937 315,982 349,105 330,038 346,827 341,044 388,740 394,505 438,583 5 EBITDAF 29,367 29,430 316,885 27,403 25,059 23,196 30,502 31,212 33,447 32,145 330,102 1,858 Interest income 1,954 2,987 2,688 1,760 110 185 1,061 1,096 30,102 1,858 Interest income 55,557 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current i 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Losses on FX 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822														5,557
Total other expenses 354,881 280,937 315,982 349,105 330,038 346,827 341,044 388,740 394,505 438,583 5 EBITDAF 29,367 29,430 316,855 27,403 25,059 23,196 30,002 31,212 33,447 32,410 394,505 438,583 5 Depreciation 29,367 29,430 31,685 27,403 25,059 23,196 30,002 1,858 Interest income 55,357 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Losses onFX 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1,081</td></t<>														1,081
EBITDAF 29,367 29,430 31,685 27,403 25,059 23,196 30,502 31,212 33,447 32,145 Amortisation & impairment 1,954 2,987 2,688 1,760 110 185 1,061 1,096 30,002 31,212 33,447 32,145 Interest income				054.004	000 007	245 000	240.405	220.020	040.007	044.044				2,095
Depreciation 29,367 29,430 31,685 27,403 25,059 23,196 30,502 31,212 33,447 32,145 Amortisation & impairment 1,954 2,987 2,688 1,760 110 185 1,061 1,096 30,102 1,858 Interest income 55,357 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Associate share of profits 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,700 77.783 86,826 94,687 7,3220 Current Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376)				354,881	280,937	315,982	349,105	330,038	340,827	341,044	388,740	394,505	438,583	501,656
Amortisation & impairment 1,954 2,987 2,688 1,760 110 185 1,061 1,096 30,102 1,858 Interest income 55,357 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Losses onFX 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 73,220 Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,725) <				00.007	00.400	24.005	07 400	05.050	00.400	20 500	04.040	00 447	00.445	05 700
Interest income 55,357 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Associate share of profits 1 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 1 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 73,220 Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (301) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,755) (40,750) (33,904) (28,667) (35,703
Financing expense 55,357 41,143 31,729 30,737 25,607 30,733 32,459 32,062 31,244 29,433 Net Loss (gain) on sale of Non-current i 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Associate share of profits 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,700 77,783 86,226 94,687 7,3200 Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,755) (40,750) (33,904) (28,667) (5,747) (36,762) </td <td></td> <td>Irment</td> <td></td> <td>1,954</td> <td>2,987</td> <td>2,088</td> <td>1,760</td> <td>110</td> <td>185</td> <td>1,061</td> <td>1,096</td> <td>30,102</td> <td>1,858</td> <td>1,831</td>		Irment		1,954	2,987	2,088	1,760	110	185	1,061	1,096	30,102	1,858	1,831
Net Loss (gain) on sale of Non-current 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Associate share of profits 1,358 (932) (843) (155) (999) 2,153 (701) 619 690 5,185 Losses on FX 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 73,220 Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,5				55.057	44.440	24 700	00 707	05 007	20 700	20.450	20.000	04.044	00 400	40.500
Associate share of profits 1					1 -					- 1				19,562
Losses onFX 34,694 (41,806) (27,113) (267) (5,250) 1,473 14,462 21,237 (796) 4,599 Other income 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 73,220 Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,889) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,518) (85,782) 1 Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1			-current	1,358	(932)	(843)	(155)	(999)	2,153	(701)	619	690	5,185	-
Other income 122,730 30,822 38,146 59,478 44,527 57,740 77,783 86,226 94,687 73,220 Profit Before Tax		rotits		04.004	(44,000)	(07.440)	(007)	(5.050)	4.470	44.400	04 007	(700)	1 500	0.004
Image: Note of the text set of the text set of text set				34,694	(41,806)	(27,113)	(267)	(5,250)	1,473	14,462	21,237	(796)	4,599	9,934
Profit Before Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,433) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,518) (85,782) 1 Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1	Other Income			400 700	20.000	20.4.12	50.470	44.507	57.740	77 700	00.000	04.007	70.000	07.000
Current Tax (3,653) (33,454) (43,609) (43,974) (35,200) (31,453) (13,418) (36,989) (68,376) (87,267) Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,518) (85,782) Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1				122,730	30,822	38,146	59,478	44,527	57,740	11,183	86,226	94,687	73,220	67,030
Deferred Tax/Adjustments (801) 405 (6,116) 3,224 1,296 2,786 7,671 227 858 1,485 Total Income Tax Expense (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,518) (85,782) Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1				(0.053)	(00.45.1)	(40.000)	(40.07.1)	(05.065)	(04.475)	(40.4.5)	(00.000)	(00.070)	(07.067)	(07 700)
Total Income Tax Expense (4,454) (33,049) (49,725) (40,750) (33,904) (28,667) (5,747) (36,762) (67,518) (85,782) Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1														(67,709)
Profit After Tax 58,239 79,546 112,589 125,141 100,426 102,380 30,326 128,201 147,484 242,903 1	,							1						1,616
	I otal Income Tax Expe	ense		(4,454)	(33,049)	(49,725)	(40,750)	(33,904)	(28,667)	(5,747)	(36,762)	(67,518)	(85,782)	(66,093)
	Profit After Tax			58,239	79,546	112,589	125,141	100,426	102,380	30,326	128,201	147,484	242,903	179,356
				-	-	-	-	-	-	-	-	-	-	

BP2												DD No.	v Zealand
W01/1900 0:00 Financial Statements	2		0	1	2	3	4	5	6	7	8		v Zealand
	Dec	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	201
Assets	\$'000												
Cash & equivalents		6,023	8,230	-	5,546	4,000	8,213	9,317	1,677	12,755	17,812	24,191	20,402
Held-for-Sale Assets		-	-	-	-	-	-	-	-	-	75,528	-	-
Trade receivables	_	138,641	132,435	126,336	159,934	249,021	143,941	144,712	132,240	104,532	118,001	128,519	115,969
Allowance doubtful debts Net trade receivables		(161)	(1,018)	(1,040)	(913)	(706)	(520)	(414)	(587)	(746)	(876)	(738)	(844
Net trade receivables		138,480	131,417	125,296	159,021	248,315	143,421	144,298	131,653	103,786	117,125	127,781	115,125
Sundry receivables		20,668	4,514	2,500	10,666	6,641	2,599	3,173	3,410	1,623	7,810	8,124	3,805
Receivables related parties not trade		20,092	172,952	307,240	419,461	174,825	231,746	315,349	338,810	225,840	324,077	689,428	278,065
Inventories		432,299	406,178	434,776	507,337	424,131	394,009	509,006	294,170	269,610	366,557	383,703	421,606
Prepayments		2,583	1,767	1,361	2,000	2,622	3,241	3,059	4,470	2,942	10,093	3,202	2,133
Emission Allowance		-	-	-	-	-	-	-	-	-	31,313	925	2,654
Income tax receivable		2,514	17,744	-	-	-	-	910	24,855	2,077	-	-	-
		437,396	425,689	436,137	509,337	426,753	397,250	512,975	323,495	274,629	407,963	387,830	426,393
Goodwill				-	-	-	-	53,174	53,174	53,174	24,371	-	-
Development costs		8,938	7,453	4,466	1,778	458	338	4,945	4,161	2,843	3,778	4,450	2,814
Intangible assets emission units													
Intangible assets other	_	8,938	7,453	4 400	1,778	450	338	50 110	57,335	50.047	28,149	4 450	2,814
Gross intangibles accumulated amortisation	_	0,930	7,455	4,466	1,770	458	330	58,119	57,335	56,017	26, 149	4,450	2,014
Net Intangibles	_	8,938	7,453	4,466	1,778	458	338	58,119	57,335	56,017	28,149	4,450	2,814
Net mangibles		0,330	7,400	4,400	1,770	430	550	30,113	57,555	30,017	20, 143	4,430	2,014
Deferred tax assets		14,743	27,271	19,394	12,088	15,841	20,505	13,907	22,664	18,760	19,643	22,050	24,644
Other non-current assets		6,486	8,018	7,146	6,617	5,997	6,056	6,890	6,968	7,967	10,377	16,205	16,217
Investments in associates		99,911	97,179	89,519	109,485	107,595	115,206	110,144	124,146	156,849	78,452	108,876	112,097
Trade & other receivables		12,777	15,014	12,236	11,368	9,389	7,203	7,553	6,029	4,532	3,480	2,672	1,898
		133,917	147,482	128,295	139,558	138,822	148,970	138,494	159,807	188,108	111,952	149,803	154,856
Land & improvements	_	136,035	137,191	138,621	137,611	134,663	144,353	145,203	166,200	178,380	193,419	222,152	250,685
Buildings		104,450	40,862	38,785	34,084	33,113	32,117	30,414	29,289	29,105	28,897	28,320	250,085
Plant & machinery	-	48,984	34,159	35,764	34,339	34,932	35,088	36,138	47,018	49,498	52,368	39,476	42,331
Depots/tanks/stations		231,784	296,990	299,216	289,707	292,950	324,625	336,987	382,550	422,746	454,675	503,461	530,544
Other		23,497	21,955	18,250	16,575	16,013	12,754	11,442	10,645	11,570	4,472	4,447	4,830
Capital Work in Progress		27,795	17,686	15,601	39,334	59,334	36,979	66,841	52,128	49,022	42,369	33,562	46,021
Gross PP&E		572,545	548,843	546,237	551,650	571,005	585,916	627,025	687,830	740,321	776,200	831,418	902,186
Accum. Depreciation		285,042	269,099	278,363	283,497	298,144	306,991	322,971	346,724	364,912	370,460	397,699	416,142
Net PP&E		287,503	279,744	267,874	268,153	272,861	278,925	304,054	341,106	375,409	405,740	433,719	486,044
Total		1,053,017	1,177,481	1,271,808	1,513,520	1,272,675	1,211,462	1,485,779	1,357,293	1,238,167	1,496,156	1,825,326	1,487,504
		-	-		-	-		-	-		-	-	-
Equity and Liabilities		2007	2008	1 2009	2 2010	3 2011	4 2012	5 2013	6 2014	7 2015	8 2016	9 2017	10 2018
Bank			-	4,000	-	-	-	3,361		-	-	-	-
Trade payables		94,197	103,228	171,157	158,881	175,191	134,316	402,765	230,555	246,017	315,817	393,200	284,909
Other payables		17,550	10,374	8,768	9,920	12,789	11,085	9,146	6,140	6,462	7,250	10,530	16,351
Emission trading scheme		-	-	-	25,174	38,862	12,086	2,133	1,872	18,447	36,126	59,337	92,804
Related party payables		92,323	222,628	168,034	276,652	192,695	105,196	2,618	17,266	41,250	52,067	11,677	14,949
Income tax payable		-	-	7,701	20,976	13,283	9,236	-	-	-	15,985	34,582	2,447
Employee provisions	_	6,947	6,611	7,089	6,281	7,726	8,052	8,493	8,889	8,977	8,865	9,312	10,076
Other provisions		-	3,500	3,966	1,826	166	834	4,028	3,279	655	251	1,028	1,146
Loan & bonds Derivative financial Instruments	_	223,916	124	85	81	146	600,071	25,296	25,123	25,233	24,240	622,703	44
Intercompany balances													
intereenipariy balancee		434,933	346,465	370,800	499,791	440,858	880,876	457,840	293,124	347,041	460,601	1,142,369	422,726
Other liabilities			,	,				-	27			, ,	206
Employee provisions		26,186	65,521	40,525	30,984	33,472	40,771	8,060	13,971	13,031	14,578	18,630	23,978
Other provisions+deferred income		2,076	1,772	1,125	2,706	3,633	3,238	1,936	2,619	2,091	824	1,350	981
Restoration costs provision		1,066	718	575	1,740	1,209	-	-	-	-	-	-	-
Derivative financial Instruments													
Deferred tax		623	2,267	952	1,699	716	635	845	-	-	-	-	-
Loan & bonds	-	450,000 479,951	600,000 670,278	600,000 643,177	600,000 637,129	600,000 639,030	44,644	601,918 612,759	601,684 618,301	600,000 615,122	600,000 615,402	- 19,980	600,000 625,165
	-	410,001	010,210	040,177	037,129	033,030	44,044	012,739	010,001	013,122	010,402	13,300	020,100
Share Capital		33,530	33,530	33,530	33,530	33,530	33,530	33,530	33,530	33,530	33,530	33,530	33,530
Share Capital Retained Earnings		104,603	127,208	224,301	343,070	159,257	252,412	381,650	412,338	242,474	386,623	629,447	406,083

BP3											
13/09/2019 12:22 Economic Value Added										BP New	Zealand
Dec	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Performance Summary NOPAT Avg Capital	108,422 799,185	75,908 879,028	127,873 969,877	147,960 892,601	80,102 853,310	61,211 957,321	44,335 1,024,407	113,201 945,255	161,961 928,760	285,349 1,181,594	212,184 1,254,653
NOPAT/Avg Capital Cost of Capital (C*)	13.6% 9.9%	8.6% 10.0%	13.2% 10.3%	16.6% 9.7%	9.4% 8.9%	6.4% 9.2%	4.3% 9.3%	12.0% 8.8%	17.4% 8.7%	24.1% 8.4%	16.9% 8.1%
<u>Spread Method</u> Profit Spread R-C* x Avg Capital	3.7% 799,185	(1.4%) 879,028	2.9% 969,877	6.9% 892,601	0.5% 853,310	(2.8%) 957,321	(5.0%) 1,024,407	3.2% 945,255	8.7% 928,760	15.7% 1,181,594	8.8% 1,254,653
EVA = (R-C*) x Average Capital	29,302	(11,995)	27,976	61,377	4,158	(26,862)	(50,934)	30,018	81,159	186,095	110,557
Residual Income Method NOPAT	108,422	75,908	127,873	147,960	80,102	61,211	44,335	113,201	161,961	285,349	212,184
Cost of Capital (C*) x Avg Capital Capital Charge	9.9% 799,185 79,119	10.0% 879,028 87,903	10.3% 969,877 99,897	9.7% 892,601 86,582	8.9% 853,310 75,945	9.2% 957,321 88,073	9.3% 1,024,407 95,270	8.8% 945,255 83,182	8.7% 928,760 80,802	8.4% 1,181,594 99,254	8.1% 1,254,653 101,627
EVA = NOPAT-Capital Charge	29,302	(11,995)	27,976	61,377	4,158	(26,862)	(50,934)	30,018	81,159	186,095	110,557
Increase in EVA	N/A	(41,297)	39,970	33,402	(57,220)	(31,020)	(24,072)	80,953	51,141	104,935	(75,538)
Cumulative EVA	29,302	17,308	45,284	106,661	110,819	83,957	33,022	63,041	144,200	330,295	440,852
Market Valuation Performance Index R/C*	1.37 x	0.86 x	1.28 x	1.71 x	1.05 x	0.70 x	0.47 x	1.36 x	2.00 x	2.87 x	2.09 x

Appendix: BP4

BP4												
13/09/2019 12:45												
NOPAT Operating											BP New	Zealand
History 2007 to 2018 Dec	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Sale of Goods	3,004,710	3,621,443	2,869,894	3,155,488	3,478,246	3,564,271	3,268,681	3,269,671	2,748,943	2,691,002	3,158,826	3,698,842
Cost of Sales	2,892,373	3,465,087	2,730,449	2,978,242	3,274,111	3,407,865	3,095,611	3,173,970	2,553,795	2,410,380	2,804,500	3,412,738
Depreciation/Amortisation	30,142	31,321	32,417	34,373	29,163	25,169	23,381	31,563	32,308	63,549	34,003	37,534
Cost Recoveries	0	(2,559)	(3,237)	(3,752)	(7,701)	(7,872)	(8,182)	(7,802)	(5,864)	(6,121)	(5,379)	(6,900)
FX (gains)/losses	(7,460)	34,694	(41,806)	(27,113)	(267)	(5,250)	1,473	14,462	21,237	(796)	4,599	9,934
Lease Expense	13,042	13,578	16,370	13,511	13,043	11,822	31,084	13,025	14,358	12,687	12,566	14,340
Int Exp Non-Cap Leases	0	(6,788)	(8,185)	(6,756)	(6,521)	(5,911)	(6,822)	(6,513)	(7,179)	(6,343)	(6,283)	(7,170)
(Incr) Emission Trading/Other Pro	N/A	(3,500)	(466)	(23,034)	(12,028)	26,108	6,759	1,010	(13,951)	(17,275)	(23,988)	(33,585)
(Incr) Employment Provisions	N/A	(38,999)	24,518	10,349	(3,933)	(7,625)	32,270	(6,307)	852	(1,435)	(4,499)	(6,112)
(Incr) Provisions	N/A	652	790	(2,746)	(396)	1,604	1,302	(710)	555	1,267	(526)	369
(Incr) NOPAT/Capital adj.	N/A		(1,954)						(1,061)	(1,096)	(30,102)	(1,858)
(Incr) Bad Debt Reserve	N/A	(857)	(22)	127	207	186	106	(173)	(159)	(130)	138	(106)
Total Operating Expenses	N/A	3,491,656	2,748,874	2,970,214	3,282,990	3,444,336	3,176,872	3,212,340	2,594,891	2,454,687	2,785,029	3,419,184
Adjusted EBIT	N/A	129,787	121,020	185,274	195,256	119,935	91,809	57,331	154,052	236,315	373,797	279,658
Operating Taxes	N/A	21,366	45,112	57,401	47,296	39,833	30,597	12,995	40,852	74,354	88,448	67,474
NOPAT	N/A	108,422	75,908	127,873	147,960	80,102	61,211	44,335	113,201	161,961	285,349	212,184

BP5												
Operating Capital											BP New	Zealand
History 2007 to 2018 December	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Accts Receivable Bad Debt Reserve Net Inventory Other Current Assets	181,823 161 432,299 2,514	310,650 1,018 406,178 17,744	436,397 1,040 434,776 0	591,148 913 507,337 0	432,403 706 424,131 0	381,007 520 394,009 0	465,879 414 509,006 910	478,343 587 294,170 24,855	334,191 746 269,610 2,077	459,105 876 366,557 31,313	828,535 738 383,703 925	399,128 844 421,606 2,654
Current Operating Assets	616,797	735,590	872,213	1,099,398	857,240	775,536	976,209	797,955	606,624	857,851	1,213,901	824,232
Accounts Payable & Other Tax Payable Other Current Liabs	204,070 0 0	336,230 0 0	347,959 7,701 0	445,453 20,976 0	380,675 13,283 0	250,597 9,236 0	414,529 0 0	253,961 0 0	293,729 0 0	375,134 15,985 0	415,407 34,582 0	316,209 2,447 206
NIBCLs	204,070	336,230	355,660	466,429	393,958	259,833	414,529	253,961	293,729	391,119	449,989	318,862
Net Working Capital	412,727	399,360	516,553	632,969	463,282	515,703	561,680	543,994	312,895	466,732	763,912	505,370
Net Prop Plant & Equip Capital Work in Progress PV of Non-Cap Leases	287,503 (27,795) 81,416	279,744 (17,686) 81,416	267,874 (15,601) 99,557	268,153 (39,334) 82,714	272,861 (59,334) 82,443	278,925 (36,979) 80,536	304,054 (66,841) 101,009	341,106 (52,128) 99,377	375,409 (49,022) 109,967	405,740 (42,369) 100,877	433,719 (33,562) 106,823	486,044 (46,021) 129,656
Adjusted Prop Plant & Equipment	341,124	343,474	351,830	311,533	295,970	322,482	338,222	388,355	436,354	464,248	506,980	569,679
Goodwill Development Costs	0 8,938	0 7,453	0 4,466	0 1,778	0 458	0 338	53,174 4,945	53,174 4,161	53,174 2,843	24,371 3,778	0 4,450	0 2,814
Other Assets Cum Unusual Loss A/T NOPAT/Capital adj. (Net Deferred Taxes)	19,263 0 0 14,120	23,032 2,901 973 25,004	19,382 42,259 2,927 18,442	17,985 3,327 5,914 10,389	15,386 2,484 8,602 15,125	13,259 23,299 10,362 19,870	14,443 13,330 10,472 13,062	12,997 3,483 10,657 22,664	12,499 2,782 11,718 18,760	13,857 1,051 12,814 19,643	18,877 (2,492) 42,916 22,050	18,115 (12,784) 44,774 24,644
Other Assets	33,383	51,910	83,010	37,615	41,597	66,790	51,307	49,801	45,759	47,365	81,351	74,749
Capital	796,172	802,197	955,859	983,895	801,307	905,313	1,009,328	1,039,485	851,025	1,006,494	1,356,693	1,152,612

EXM1											F	Mahil Mar	
10/09/2019 22:28												Mobil Nev	/ Zealan
1-Income Sta	tements	Der	0		2								1
_		Dec	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	201
Revenue Fuel			2.389.719	1.809.663	1.938.833	2.465.953	2,527,650	2.909.537	2.783.901	2.363.506	2.200.712	2.675.556	3.364.118
Other		\$'000	18.046	1,809,863	1,936,633	2,405,955	2,527,650	2,909,537	2,783,901	2,363,506	33.682	32.832	36.825
Rental income	_		3,722	3,366	3.575	3.502	3,407	3.028	20,001	6.259	6.302	6.987	6.801
	-		- 1	1.830.037	1.958.185	2,485,669	2.548.057	2.942.026	2.815.742	2.401.820	2.240.696	2.715.375	- 1
Total Revenue			2,411,487	1,830,037	1,958,185	2,485,669	2,548,057	2,942,026	2,815,742	2,401,820	2,240,696	2,715,375	3,407,744
Raw materials	& consumab	es	1,965,813	1,438,222	1,477,122	1,916,926	1,999,737	2,228,435	1,956,589	1,418,157	1,328,748	1,587,524	2,257,351
Change in inv	entories of rav	v materials,etc	31,911	-106327	(43,394)	(2,573)	(14,883)	(25,977)	110,919	43,869	(107,333)	(28,740)	8,668
Sales tax and	duties		280183	293407	316387	324,711	367,801	457,127	516,219	587,886	606,642	640,590	700,159
Refinery proc	essing fees								34,761	91,046	63,947	84,649	63,870
Net Revenue			133,580	204,735	208,070	246,605	195,402	282,441	197,254	260,862	348,692	431,352	377,696
Operating exp	enses												
Employee ber	nefits		32,552	36,581	35,561	31,393	32,472	34,185	17,262	12,279	11,781	11,985	13,681
Other expens	es		126,788	122,611	109,809	112,319	122,081	151,650	168,845	188,418	183,591	211,160	222,463
Lease cost			14,667	13,854	14,026	14,388	13,447	13,103	13,935	13,130	13,928	15,026	15,493
(Gains)/losse:	s on foreign ex	change	62,968	(25,648)	(18,941)	23,889	(5,281)	(13,281)	10,158	20,549	(3,001)	(4,037)	11,592
Total operatin	g expenses		236,975	147,398	140,455	181,989	162,719	185,657	210,200	234,376	206,299	234,134	263,229
EBITDAF			(103,395)	57,337	67,615	64,616	32,683	96,784	(12,946)	26,486	142,393	197,218	114,467
Depreciation	& amortisation		16,300	15,104	14,223	13,558	12,928	13,489	15,546	12,819	13,508	14,605	14,045
Interest incon	ne		2,777	1,434	1,210	4,022	5,882	5,876	9,236	11,608	9,196	2,923	2,819
Dividend inco	me		79	3	1		-	38	-	3,201	12,365	6,451	8,064
Financing exp	ense		82,388	45,652	40,132	40,816	31,683	29,750	32,090	32,095	26,321	13,735	9,541
Gain(loss) on	NZRC investr	nent reclass'n	-	-	-	-	-	-	3,862	-	-	2,688	(16,128
Associate sha	are of profits		23,981	4,526	11,069	6,614	5,943	(961)	-	-	-	-	-
Loss (gain) or	n sale of PP&E		628	148	616	(308)	(320)	(134)	380	473	1,822	928	(178
Profit Before T	ax		(175,874)	2,396	24,924	21,186	217	58,632	(47,864)	(4,092)	122,303	180,012	85,814
Current Tax			-	-	-	-	-	-	-	-	-	4,123	26,029
Deferred Tax/	Adjustments		(47,662)	(4.650)	12.084	5.217	(1.840)	15.386	(14.354)	(1.401)	31.137	29.912	562
Total Income Ta			(47,662)	(4,650)	12,084	5.217	(1,840)	15,386	(14,354)	(1,401)	31.137	34,035	26.591
Profit After Ta			(128,212)	7.046	12,840	15.969	2,057	43,246	(33,510)	(2,691)	91.166	145.977	59,223

EXM2 10/09/2019 22:28										Exxo	nMobil Nev	w Zoaland
Financial Statements		0	1	2	3	4	5	6	7	8	9	<u>n Zealain</u>
	Dec	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	201
Assets	\$'000					restated						
Cash & equivalents		80,410	58,137	65,321	247,908	250,294	276,597	353,175	360,462	490,515	66,457	33,986
Held-for-Sale Assets		3,665	2,997	2,460	1,416	306	-	13	385	660	996	945
Income tax receivable												
Net trade receivables		88,123	62,842	82,399	81,865	91,340	82,241	75,326	81,316	103,544	149,264	151,081
Provision doubtful debts		(6,784)	(6,705)	(553)	(443)	(460)	(536)	(478)	(124)	(100)	(16)	(56
		81,339	56,137	81,846	81,422	90,880	81,705	74,848	81,192	103,444	149,248	151,025
Net other receivables		5,982	13,491	4,732	5,251	18,705	26,103	8,515	3,532	3,737	5,797	6,581
Trade/services receivables related parties		2,567	278	175	249	126	674	290	50	4,387	850	7,030
		173,963	131,040	154,534	336,246	360,311	385,079	436,841	445,621	602,743	223,348	199,567
Inventories FIFO		173,661	280,787	324,181	326,754	341,637	367,613	256,694	212,825	320,158	348,898	340,231
Inventory Adjustment Reserve		175,001	200,707	524,101	520,754	541,057	307,013	230,034	212,025	520,150	340,030	540,251
inventory Aujustitient Reserve		173,661	280,787	324,181	326,754	341,637	367,613	256,694	212,825	320,158	348,898	340,231
			, .		, .					,		
Gross Intangible assets it/contracts							-	1,963	2,242	13,456	13,750	13,857
Amortisation							-	(120)	(268)	(512)	(1,378)	(2,265
Net intangibles		-	-	-	-	-	-	1,843	1,974	12,944	12,372	11,592
Deferred tax		73,707	78,314	66,196	60,979	68,225	52,294	82,086	82,844	51,869	(6,883)	7,345
Valuation allowance		70 707	70.044	66 406	60.070	60.005	52 204	(14,340)	(14,340)	(14,340)	14,340	-
		73,707	78,314	66,196	60,979	68,225	52,294	67,746	68,504	37,529	7,457	7,345
Trade & other receivables		10,189	8,946	7,509	7,445	6,205	5,725	5,545	5,720	12,751	13,530	12,236
Other non-current assets		3,254	3,714	5,931	21,278	24,263	5,315	24,151	23,713	20,168	64,105	108,382
Retirement benefit obligations		-	3,227	2,598	6,859	21,200	0,010	21,101	20,710	20,100	01,100	100,002
Held-for-Sale Assets (NZR)			•,==:	_,			-	118,810	118,810	201,600	139,776	142,464
Revaluation (loss)							-	-	82,790	(61,824)	2,688	(16,128
Held-for-Sale net							-	118,810	201,600	139,776	142,464	126,336
Investments associates		119,320	110,023	120,017	119,642	119,672	114,947					
Associate receivables		87	87	87	87	87	87	87	87	87	87	87
		206,557	204,311	202,338	216,290	218,452	178,368	216,339	299,624	210,311	227,643	254,386
Land & improvements		123,145	116,473	115,775	116,261	62,514	62,813	62,800	62,759	62,335	61,989	67,439
Buildings		42,161	42,299	42,214	41,622	41,055	47,427	54,052	58,827	65,470	67,632	70,439
Plant & machinery/property		194,833	192,731	192,431	198,426	269,100	276,315	269,951	271,137	269,137	278,227	291,190
Capital Work in Progress		32	19	96	60	-	-	8,450	8,627	18,760	27.644	55,686
Gross PP&E		360,171	351,522	350,516	356,369	372,669	386,555	395,253	401,350	415,702	435,492	484,752
Accum. Depreciation		181,568	185,414	194,363	204,000	212,689	223,761	235,806	240,853	243,209	249,481	255,206
Net PP&E		178,603	166,108	156,153	152,369	159,980	162,794	159,447	160,497	172,493	186,011	229,546
Total		732,784	782,246	837,206	1,031,659	1,080,380	1,093,854	1,071,164	1,120,541	1,318,649	998,272	1,035,322
		-	-	-	-	-		-	-	-	-	
		0	1	2	3	4	5	6	7	8	9	10
Equity and Liabilities		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Trade payables		32,578	70.280	41.465	68.056	76.883	108.321	88,930	91.347	60.186	94,298	86.708
Other taxes payable		56,594	16,748	47,123	36,139	59,440	40,406	60,102	58,744	70,952	58,992	59,230
Other payables		538	462	15,944	27,214	10,897	8,523	5,425	12,900	35,484	63,435	113,421
		89,710	87,490	104,532	131,409	147,220	157,250	154,457	162,991	166,622	216,725	259,359
Payables related		28,163	79,382	80,995	117,441	124,170	53,174	43,579	25,918	208,734	126,288	154,911
Income tax payable										-	4,123	30,281
Employment provisions		3,949	3,590	4,692	5,101	4,205	4,215	2,219	2,177	2,354	2,307	2,513
Loan & bonds		40.205	4 004	E 067	2 520	0.000	2 400	004	4 4 0 4	4 507	4 074	1 400
Associate payables	+	10,385	4,231 174,693	5,967 196,186	3,538 257,489	6,863 282,458	2,498 217,137	824 201,079	1,181 192,267	1,537 379,247	1,374 350,817	1,409 448,473
Net defined benefit obligation		2,642	174,095	190,100	257,469	10,133	3,624	6,520	2,193	1,497	60	309
Provisions/Disability Allowance		2,042	465	438		10,100	5,024	5,520	2,100	1,401	00	509
Deferred tax		13		.50								
Loan & bonds		869,500	871,686	892,340	659,959	685,421	726,076	752,880	763,645	796,542	359,644	330,391
		872,221	872,151	892,778	659,959	695,554	729,700	759,400	765,838	798,039	359,704	330,700
Share Capital		100,000	100,000	100,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000
		(070 70-	(070 707	(070 705)	(070 700	(070 70	(070 70	(070 705	(070 705	(070 707)	(070 705)	(070 70 70
Reserves [Goodwill?] Available for sale revaluation reserve		(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735)	(272,735
						(070 705)	(272,735)	- (272,735)	82,790 (189,945)	20,966 (251,769)	- (272,735)	(272,735
												1212.135
Net reserves		(272,735)		(272,735)	(272,735)	(272,735)						
Net reserves Retained Earnings		(98,909)	(91,863)	(79,023)	(63,054)	(74,897)	(30,248)	(66,580)	(97,619)	(56,868)	110,486	78,884
Net reserves												

Appendix: EXM3

EXM3											
Economic Value Added										Exx	onMobil
Dec	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Performance Summary											
NOPAT Avg Capital	(92,662) 478,515	36,803 487,953	28,245 513,138	39,757 495,977	17,106 481,608	64,937 525,736	(19,269) 507,347	11,677 432,060	96,363 381,252	149,692 417,479	77,208 469,032
NOPAT/Avg Capital Cost of Capital (C*)	(19.4%) 9.9%	7.5% 10.0%	5.5% 10.3%	8.0% 9.7%	3.6% 8.9%	12.4% 9.2%	(3.8%) 9.3%	2.7% 8.8%	25.3% 8.7%	35.9% 8.4%	16.5% 8.1%
<u>Spread Method</u> Profit Spread R-C* x Avg Capital	(29.3%) 478,515	(2.5%) 487,953	(4.8%) 513,138	(1.7%) 495,977	(5.3%) 481,608	3.2% 525,736	(13.1%) 507,347	(6.1%) 432,060	16.6% 381,252	27.5% 417,479	8.4% 469,032
EVA = (R-C*) x Average Capita	(140,035)	(11,992)	(24,608)	(8,353)	(25,757)	16,570	(66,452)	(26,344)	63,194	114,623	39,217
Residual Income Method NOPAT	(92,662)	36.803	28,245	39.757	17.106	64.937	(19,269)	11.677	96.363	149,692	77,208
Cost of Capital (C*) x Avg Capital Capital Charge	9.9% 478,515 47,373	10.0% 487,953 48,795	10.3% 513,138 52,853	9.7% 495,977 48,110	8.9% 481,608 42,863	9.2% 525,736 48,368	9.3% 507,347 47,183	8.8% 432,060 38,021	8.7% 381,252 33,169	8.4% 417,479 35,068	8.1% 469,032 37,992
EVA = NOPAT-Capital Charge	(140,035)	(11,992)	(24,608)	(8,353)	(25,757)	16,570	(66,452)	(26,344)	63,194	114,623	39,217
Increase in EVA	N/A	128,043	(12,616)	16,255	(17,404)	42,326	(83,022)	40,108	89,538	51,429	(75,407)
Cumulative EVA	(140,035)	(152,027)	(176,635)	(184,988)	(210,745)	(194,175)	(260,627)	(286,971)	(223,777)	(109,153)	(69,937)
<u>Market Valuation</u> Performance Index R/C*	(1.96 x)	0.75 x	0.53 x	0.83 x	0.40 x	1.34 x	(0.41 x)	0.31 x	2.91 x	4.27 x	2.03 x

EXM4												
13/09/2019 12:45 NOPAT Operating											Ex	xonMobil
History 2007 to 2018 Dec	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Revenue	1,754,774	2,407,765	1,826,671	1,954,610	2,482,167	2,544,650	2,938,998	2,810,702	2,395,561	2,234,394	2,708,388	3,400,943
Cost of Goods Sold Depreciation/Amortisation FX (gain) Losses Lease Expense Int Exp Non-Cap Leases (Incr) Employee Provisions (Incr) NOPAT & Capital adj Amort (Incr) Bad Debt Reserve	17,921 (18,140) 15,177 0 N/A N/A	14,667 (5,393) 65 0 456	15,104 (25,648) 13,854 (5,177) 359 0 79	14,223 (18,941) 14,026 (5,234) (1,102) 0 (336)	13,558 23,889 14,388 (5,443) (409) 0 (276)	12,928 (5,281) 13,447 (5,020) 896 0 (216)	13,489 (13,281) 13,103 (5,038) (10) 0 (156)	15,546 10,158 13,935 (4,448) 1,996 (120) (96)	12,819 20,549 13,130 (3,436) 42 (268) (36)	13,508 (3,001) 13,928 (3,813) (177) (512) 24	14,605 (4,037) 15,026 (4,020) 47 (1,378) 84	14,045 11,592 15,493 (3,817) (206) (2,265) (40)
Total Operating Expenses	N/A	2,526,310	1,783,065	(413,641)	6,521	426,684	846,846	1,267,008	1,687,171	2,107,333	2,527,495	3,300,994
Rental Income	4,063	3,722	3,366	3,575	3,502	3,407	3,028	5,040	6,259	6,302	6,987	6,801
Adjusted EBIT	N/A	(114,823)	46,972	53,576	56,800	23,896	88,419	(25,978)	16,975	133,363	187,880	106,750
Operating Taxes	N/A	(22,161)	10,168	25,331	17,043	6,790	23,481	(6,710)	5,297	37,000	38,188	29,542
NOPAT	N/A	(92,662)	36,803	28,245	39,757	17,106	64,937	(19,269)	11,677	96,363	149,692	77,208

EXM5												
Operating Capital											Exxo	onMobil
History 2007 to 2018 December	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net Accts Receivable	111,789	81,339	56,137	81,846	81,422	90,880	81,705	74,848	81,192	103,444	150,729	151,025
Bad Debt Reserve	7,240	6,784	6,705	553	443	460	536	478	124	100	16	56
Net Inventory	205,474	173,661	280,787	324,181	326,754	341,637	367,613	256,694	212,825	320,158	348,898	340,231
Other Current Assets	30,427	8,549	13,769	4,907	5,500	18,831	26,777	8,805	3,582	8,124	5,166	13,611
Current Operating Assets	354,930	270,333	357,398	411,487	414,119	451,808	476,631	340,825	297,723	431,826	504,809	504,923
Trade Payables	29,054	32,578	70,280	41,465	68,056	76,883	108,321	88,930	91,347	60,186	94,298	86,708
Provisions	528	66	465	438	0	0	0	0	0	0	0	0
Tax Payable	68,473	56,594	16,748	47,123	36,139	59,440	40,406	60,102	58,744	70,952	58,992	59,230
Other Current Liabs	49,610	39,086	84,075	102,906	148,193	141,930	64,195	49,828	39,999	245,755	195,220	300,022
NIBCLs	147,665	128,324	171,568	191,932	252,388	278,253	212,922	198,860	190,090	376,893	348,510	445,960
Net Working Capital	207,265	142,009	185,830	219,555	161,731	173,555	263,709	141,965	107,633	54,933	156,299	58,963
Net Prop Plant & Equip	195,501	178,603	166,108	156,153	152,369	159,980	162,794	159,447	160,497	172,493	186,011	229,546
Assets under Construction	(2,878)	(32)	(19)	(96)	(60)	0	0	(8,450)	(8,627)	(18,760)	(27,644)	(55,686)
PV of Non-Cap Leases	65,628	63,784	63,980	63,980	68,809	68,396	74,593	67,866	52,624	60,636	68,339	78,590
Adjusted Prop Plant & Equipment	258,251	242,355	230,069	220,037	221,118	228,376	237,387	218,863	204,494	214,369	226,706	252,450
Net Intangibles	0	0	0	0	0	0	0	1,843	1,974	12,944	12,372	11,592
Other Assets	9,316	13,530	12,747	13,527	28,810	30,555	11,127	29,783	29,520	33,006	77,722	120,705
Retirement Benefit Obligations	(2,417)	(2,642)	0	0	0	(10,133)	(3,624)	(6,520)	(2,193)	(1,497)	(60)	(309)
NOPAT & Capital adj Amortisation	0	0	0	0	0	0	0	120	388	900	2,278	4,543
(Net Deferred Taxes)	15,669	73,694	78,314	66,196	60,979	68,225	52,294	67,746	68,504	37,529	7,457	7,345
Other Assets	22,568	84,582	91,061	79,723	89,789	88,647	59,797	91,129	96,219	69,938	87,397	132,284
Capital	488,084	468,946	506,960	519,315	472,638	490,578	560,893	453,800	410,320	352,184	482,774	455,289