
Ergon Energy Tariff Change

*Lower Burdekin Water Submission to the
Queensland Competition Authority*

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Executive Summary

Lower Burdekin Water (LBW) is a joint venture between the North Burdekin Water Board (NBWB) and the South Burdekin Water Board (SBWB) which are not for profit Category 2 Water Authorities under the Queensland Water Act 2000. LBW is a major bulk water customer in the Burdekin Haughton Water Supply Scheme (BHWSS) and service 625 irrigators. This submission outlines the impacts that potential changes to specific power tariffs will have on the financial viability of the board.

Proposed solution

Given the potential impacts resulting from changes to the regulated tariffs currently used by LBW, LBW propose the transition period from the current obsolete tariffs (specifically tariffs 22 L (Large) and 43) to the new tariff structure be given due course of three years. LBW requires due course of three years to enable appropriate time to:

- Review existing capital investments against new tariff structures and prices.
- Incrementally increase future budgets, rates and charges to cover the increased operating costs associated with the new regulated tariffs.
- Review future capital investments in relation to pumping station design.
- Incorporate outcomes from the numerous electricity reviews currently being undertaken by state and federal governments into future pumping strategies and designs.
- Explore opportunities within the contestable electricity market.

Allowing an appropriate amount of time to complete the activities mentioned above is essential for LBW to make prudent business decisions to minimise the cost burden to LBW's rate payers and assist in maintaining the ongoing viability of the communities and industries which rely on LBW services.

Introduction

Lower Burdekin Water (LBW) is a joint venture between the North Burdekin Water Board and the South Burdekin Water Board (the Water Boards). LBW service 625 irrigators (predominantly sugar producers) and have a medium security water allocation of 255,000 ML.

LBW is also responsible for natural resource management, in terms of replenishment of the groundwater aquifer that lies under the Water Boards' operational area. This requires the management of the aquifer to simultaneously mitigate the risk of irrigation salinity, avoid seawater intrusion, and to provide effective and efficient water supply services to our members. LBW have been successfully delivering those multiple outcomes for approximately 50 years.

LBW operate on a cost recovery commercial basis where any operating surplus is reinvested into service improvement. LBW costs are typically around \$7.5 million per annum and power charges are the main expense the board occurs, power expenses are typically around 33% of total operating costs.

LBW is classified as a large consumer of electricity. The North and South Burdekin Water Boards combined consumes on average 7,437,844 kW per year. The specific yearly electricity consumption is dependent on seasonal rainfall within the area.

This submission

LBW has prepared this submission to the Queensland Competition Authority (QCA) in relation to the Review of Regulated Retail Electricity Prices for 2013-14 – specifically in response to the QCA Interim Consultation Paper and Transitional Issues.

This submission outlines the impacts of the findings and potential financial impact that obsolete tariffs outlined in the QCA's Review of Regulated Retail Electricity Prices for 2013-14 will have on LBW and our position on relevant issues.

Current Tariff Structure

The current Ergon Energy tariff structure for LBW and names of the accounts that LBW currently has with Ergon Energy are shown in Table 1 below:

Table 1: Regulated tariffs currently utilised by LBW

North Burdekin Water Board Ergon Energy Account Names and Tariff Details

<u>Current Tariff</u>	<u>Ergon Energy Account Name</u>
43	Rocks Pump Station
22 L	Rita Island Pump Station
41	Plantation Creek Pump Station
22	Red Lilly Pump Station
22 L	Kilrie Gully Pump Station
22 L	Lilliesmere Pump Station
22	Pest Board Pump Station
22 L	Klondyke Lilliesmere Pump Station
20	Scarcia Lagoon Pump Station
22	Lochinvar Pump Station
20	Workshop and Office
65	Airdmillan Pump Station

South Burdekin Water Board Ergon Energy Account Names and Tariff Details

<u>Current Tariff</u>	<u>Ergon Energy Account Name</u>
43	McDowells Pump Station
22 L	Down River Pump Station
22	Ford Relift
22	Osborne Relift
22	Sandy Creek Relift
43	Warren's Gully Pump Station
20	Workshop and Office

The accounts which are highlighted in bold in Table 1 are the large business customer accounts that LBW currently have with Ergon Energy and are to be made obsolete.

Impacts of new tariff structure

LBW has invested considerable funds over the years to ensure their infrastructure meets the requirements of the business utilising the most appropriate tariffs. Past investment decisions by LBW have been made utilising pricing associated with tariff 43 and 22 L. Pumping stations which utilise tariff 43 and 22 L are shown in Table 1. With tariff 43 and 22 L being made obsolete the operating costs associated Rocks, McDowell's, Warren's Gully, Lilliesmere, Rita Island, Kilrie Gully, Klondyke Lilliesmere and Down River Pump Stations will have the greatest financial impact for LBW. The financial impacts associated with

switching from the current regulated tariffs to the new regulated tariffs are shown in Figure 1 and Figure 2 below. The analysis was based on 2012 regulated tariff prices and LBW’s 2012 actual power consumption for the respective pump stations set up on the tariff 43 and 22 L.

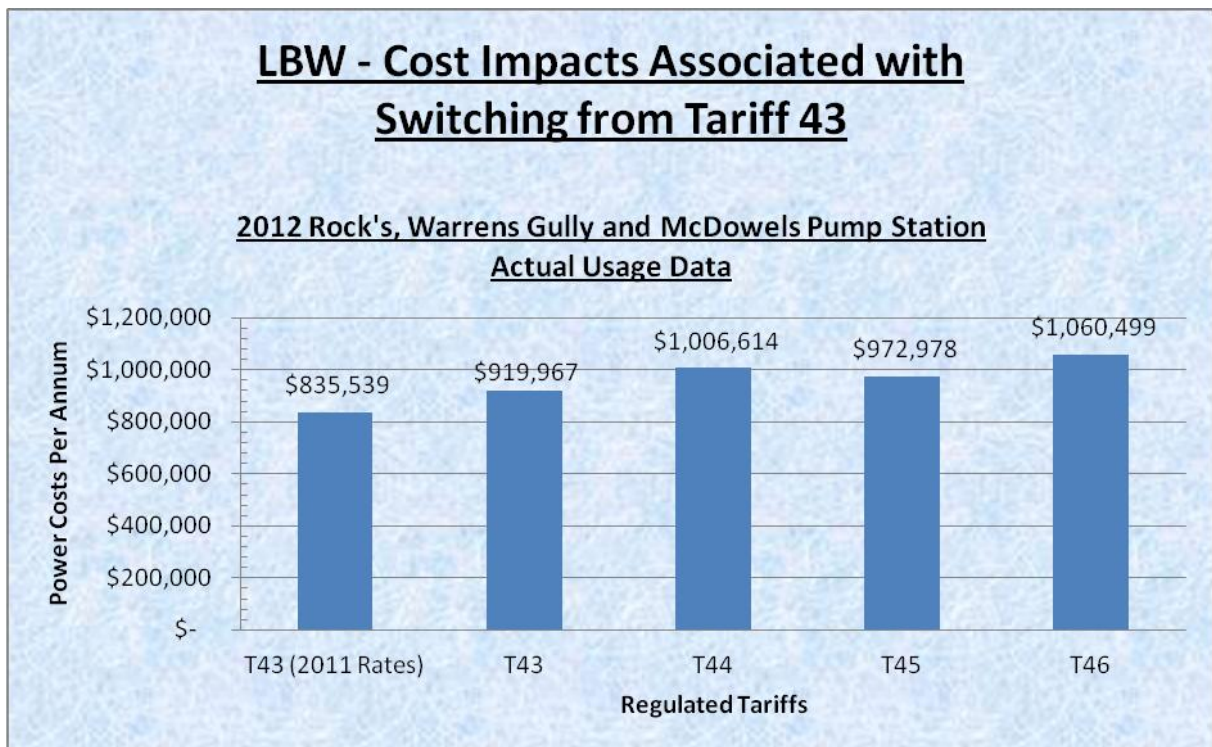


Figure 1: LBW Tariff 43 Financial Impacts

(Source: Ergon Energy)

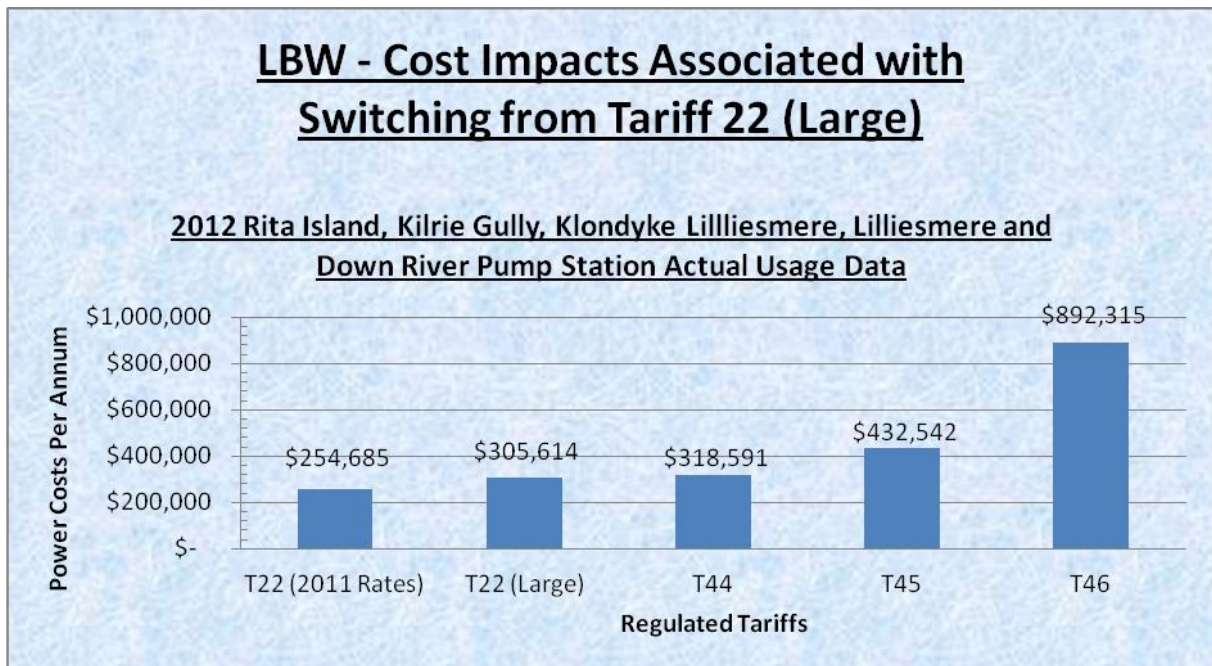


Figure 2: LBW Tariff 22L Financial Impacts

(Source: Ergon Energy)

As shown in figure 1 and 2 above, the combined financial impact (based on 2012 information) for LBW associated with switching from the current obsolete regulated tariffs to the most economical new regulated tariff is approximately \$65,987.15 per annum. This increase is additional to the significant increase in power cost from the 2011 Ergon Energy power rates as displayed in Figure 1 and 2.

LBW operates on a cost recovery commercial basis where any operating surplus is reinvested into service improvement. Any increase on operational costs (in this case power costs) are directly passed on to the ratepayers. Consequently, LBW growers and ratepayers will be exposed to increased rates and charges from LBW additional to increases in their own electricity costs.

Recently LBW have spent large sums of capital improving operational and energy efficiency associated with their pumping infrastructure. The business cases, assumptions and financial modelling for the particular capital infrastructure projects were based around the asset remaining on the current tariff structure. The most recent project in which a large sum of capital has gone into improving efficiency is the Rocks Pump Station Upgrade for the NBWB. The SBWB have also invested resources into reports detailing the future capital costs required to increase pumping capacity for the Warren's Gully and McDowell's Pump Stations. Further information regarding these projects is set out in the following case studies.

Case Study 1 - Rocks Pump Station Upgrade (NBWB)

The Rocks Pump Station Upgrade Project involved the complete upgrade of existing pump station in NBWB area. The scope of works for the project included an electrical upgrade (priority 1), pipeline upgrades (priority 2), installation of splitter plates (priority 3), relocation of junction box (priority 4) and to raise weir levels and interconnect pressure mains (priority 5).

The objective of this project was to increase the reliability of supply and improve the operational efficiency of the pump station.

The expenditure which the NBWB outlaid for this upgrade project as at the end of November 2012 is \$986,393.33 excluding GST. These costs relate to electrical upgrade (priority 1) and pipelines upgrade (priority 2),

A main driver for the NBWB approving the pipeline upgrade (priority 2) was cost savings that would be made in terms of increased efficiency. The calculations and report was prepared by external consultants on behalf of the board. The report based the potential savings on the current tariff 43 which the Rocks Pump Station is currently connected to which is now due to become obsolete. The findings of the report stated the NBWB would save average pumping costs of 1,750L/s which equated to an estimated dollar saving of \$66,000 per year for one pipeline. (Source NBWB)

In an effort to increase operational and energy efficiencies further to realise the maximum benefits associated with estimated cost savings the NBWB decided to upgrade two pipelines instead of one as originally proposed.

The pipelines relining project total completion cost was \$829,700 excluding GST based on the board remaining on tariff 43 it would have taken the NBWB approximately 8 to 9 years in power savings to recover the costs of the project.

With the proposed tariff changes the saving the board would make from the pipelines upgrade is reduced. The saving the board would receive from upgrading one pipeline would be reduced from \$66,000 per year to \$61,149 per year on the next most economical tariff. This saving is further reduced considering the NBWB decided to upgrade two pipelines.

Case Study 2 – Future Potential Capital Costs for Warren’s Gully (SBWB) and McDowell’s Pump Stations (SBWB)

The SBWB conducted a Peak Supply Capacity Augmentation Report to identify options to increase the pumping capacity to better meet the needs of its customers during peak irrigation periods and to reduce any roster periods thus allowing customers more water supply to better match their crop demands.

This report focused around three supply pump stations from the Burdekin River consisting of the Down River Pump Station, McDowell’s Pump Station and Warren’s Gully Pump Station. Two of the pump stations the report was compiled around are McDowell’s and Warren’s Gully. Both of these pump stations are currently on tariff 43 and thus will be the focus of the following text.

The report presented three options for each pump station to improve pumping capacity and the estimated potential costs of each option.

For Warren’s Gully the following costs and resulting benefits were identified for each option:

Option 1 – Preliminary cost estimate \$1,376,000, potential benefit increased capacity from 140 ML/d to 220 ML/d

Option 2 – Preliminary cost estimate \$971,000, potential benefit increased capacity from 140 ML/d to 180 ML/d

Option 3 – Preliminary cost estimate \$360,000, no increased capacity benefits, only flow rate benefits due to upgrade of culverts.

(Source: SBWB)

For McDowell’s the following costs and resulting benefits were identified for each option:

Option 1 – Preliminary cost estimate \$3,299,000, potential benefit increased capacity from 210 ML/d to 260 ML/d

Option 2 – Preliminary cost estimate \$4,487,000, potential benefit increased capacity from 210 ML/d to 310 ML/d

Option 3 – Preliminary cost estimate \$6,332,000, potential benefit increased capacity from 210 ML/d to 360 ML/d

(Source: SBWB)

As mentioned previously with LBW being a non profit entity any funds required for capital expenditure need to be sourced from rate payers within the entitlement area. In order to raise the large amount of capital funding required to complete pump station supply upgrades the

boards rates and charges will need to increase which adds to the financial burden on the agricultural industry within the LBW region.

Furthermore, if rising power costs adds to funding constraints in carrying out future capital projects by LBW, then ageing infrastructure will need to be repaired at a higher frequency. The increased downtime and higher costs associated with the repairs will compound inefficiencies within the business and may stifle future growth opportunities within the area.

Appendix 1 – Current Tariff and Alternative Tariff Data/Costing Details for the Rocks Pump Station Ergon Account Number 67406742

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 9pm)	Night	Shoulder	% Night
30/11/2012	30	418028	737	180031	211247	26750	57%
31/10/2012	31	262462	520	109550	132023	20889	58%
30/09/2012	30	196491	659	84900	104030	7561	57%
31/08/2012	31	80873	291	35519	40160	5194	56%
31/07/2012	31	2036	790	2036	0	0	0%
30/06/2012	30	2448	354	2385	62	1	3%
31/05/2012	31	131154	355	49442	73786	7926	62%
30/04/2012	30	155706	701	69553	75814	10339	55%
31/03/2012	31	8944	347	5182	3037	725	42%
29/02/2012	29	113826	702	45227	62380	6219	60%
31/01/2012	31	249662	814	94991	140696	13975	62%
31/12/2011	22	204348	750	87789	104224	12335	57%
Total	357	1825978					

Date	Days	Cost				
		T43	T44	T45	T46	T43 (2011 Rates)
30/11/2012	30	\$70,417.39	\$73,012.16	\$70,306.39	\$69,933.84	\$58,679.73
31/10/2012	31	\$45,744.87	\$48,374.63	\$46,561.73	\$46,424.46	\$38,119.91
30/09/2012	30	\$38,603.49	\$44,622.75	\$42,258.94	\$41,972.55	\$32,169.21
31/08/2012	31	\$20,730.74	\$19,489.43	\$18,713.96	\$21,881.97	\$17,275.67
31/07/2012	31	\$16,177.00	\$27,054.16	\$24,018.09	\$23,572.63	\$13,481.53
30/06/2012	30	\$9,932.63	\$12,061.34	\$11,034.68	\$12,328.35	\$8,277.61
31/05/2012	31	\$26,534.88	\$27,507.45	\$26,442.04	\$27,749.76	\$22,112.26
30/04/2012	30	\$34,813.12	\$41,228.70	\$38,680.76	\$38,347.98	\$29,010.76
31/03/2012	31	\$11,156.59	\$12,976.76	\$11,947.59	\$13,487.85	\$9,297.56
29/02/2012	29	\$27,858.24	\$35,604.14	\$33,136.89	\$32,814.14	\$23,215.27
31/01/2012	31	\$48,122.25	\$56,758.45	\$53,613.65	\$53,140.79	\$40,101.46
31/12/2011	22	\$37,980.52	\$41,924.79	\$39,898.76	\$39,615.03	\$31,649.90
Total	357	\$388,071.72	\$440,614.76	\$416,613.49	\$421,269.36	\$323,390.87

(Source: Ergon Energy)

Appendix 2 – Current Tariff and Alternative Tariff Data/Costing Details for Lilliesmere Pump Station Ergon Account Number 67522912

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	28616	42	11410	15548	1658	60%
1/11/2012	30	15528	23	6660	7922	946	57%
2/10/2012	25	11303	25	4695	5916	692	58%
7/09/2012	30	6789	22	2784	3614	391	59%
8/08/2012	36	0	0	0	0	0	0%
3/07/2012	32	0	0	0	0	0	0%
1/06/2012	31	13221	23	5760	6636	825	56%
1/05/2012	29	10857	24	4419	5780	658	59%
2/04/2012	32	0	0	0	0	0	0%
1/03/2012	29	52	59	52	0	0	0%
1/02/2012	28	17300	62	6668	9665	967	61%
4/01/2012	34	22528	61	8803	12449	1276	61%
Total	368	126194					

Date	Days	Cost				
		T22 (Large)	T44	T45	T46	T22 (2011 Rates)
3/12/2012	32	\$6,539.76	\$5,079.72	\$7,784.01	\$16,185.00	\$5,449.93
1/11/2012	30	\$3,678.99	\$3,053.42	\$5,978.86	\$13,854.78	\$3,065.90
2/10/2012	25	\$2,645.51	\$2,353.48	\$4,791.34	\$11,354.62	\$2,204.65
7/09/2012	30	\$1,600.98	\$2,033.58	\$4,959.01	\$12,834.94	\$1,334.19
8/08/2012	36	\$49.63	\$1,489.57	\$5,000.09	\$14,451.20	\$41.39
3/07/2012	32	\$44.12	\$1,324.06	\$4,444.52	\$12,845.51	\$36.79
1/06/2012	31	\$3,161.48	\$2,825.57	\$5,848.52	\$13,986.98	\$2,634.64
1/05/2012	29	\$2,526.13	\$2,466.94	\$5,294.86	\$12,908.26	\$2,105.17
2/04/2012	32	\$44.12	\$1,324.06	\$4,444.52	\$12,845.51	\$36.79
1/03/2012	29	\$59.32	\$2,117.46	\$4,033.91	\$11,647.31	\$49.45
1/02/2012	28	\$3,910.19	\$4,148.53	\$5,907.87	\$13,258.73	\$3,258.57
4/01/2012	34	\$5,117.33	\$5,178.14	\$7,351.32	\$16,277.37	\$4,264.55
Total	368	\$29,377.55	\$33,394.53	\$65,838.82	\$162,450.22	\$24,482.02

(Source: Ergon Energy)

Appendix 3 – Current Tariff and Alternative Tariff Data/Costing Details for McDowell’s Pump Station Ergon Account Number 67407170

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	276847	451	112662	148142	16043	59%
1/11/2012	30	210598	343	89567	108106	12925	57%
2/10/2012	25	175217	300	68633	96597	9988	61%
7/09/2012	30	99664	297	45420	47724	6520	54%
8/08/2012	36	360	41	199	148	13	45%
3/07/2012	32	331	72	170	148	13	49%
1/06/2012	31	144603	296	63395	73053	9149	57%
1/05/2012	29	140187	310	60826	70360	9007	57%
2/04/2012	32	9278	142	6138	2537	603	34%
1/03/2012	29	94105	304	37558	50935	5612	60%
1/02/2012	28	148821	457	56623	84384	7813	62%
4/01/2012	34	297956	455	118182	162582	17192	60%
Total	368	1597967					

Date	Days	Cost				
		T43 (2011 Rates)	T43	T44	T45	T46
3/12/2012	32	\$ 38,615.75	\$45,571.75	\$48,232.80	\$46,684.09	\$46,623.70
1/11/2012	30	\$ 31,305.40	\$34,767.43	\$35,994.79	\$35,016.36	\$36,619.45
2/10/2012	25	\$ 25,414.95	\$27,475.36	\$28,797.77	\$28,139.50	\$30,483.38
7/09/2012	30	\$ 19,302.75	\$19,477.87	\$21,553.18	\$20,776.42	\$23,673.46
8/08/2012	36	\$ 9,511.82	\$6,436.37	\$1,960.76	\$5,042.10	\$14,493.21
3/07/2012	32	\$ 8,455.13	\$5,721.43	\$2,819.29	\$4,483.15	\$12,884.14
1/06/2012	31	\$ 24,503.95	\$25,576.81	\$27,094.71	\$26,296.58	\$29,319.26
1/05/2012	29	\$ 23,369.28	\$24,722.78	\$26,360.05	\$25,554.09	\$28,001.07
2/04/2012	32	\$ 9,662.47	\$7,170.31	\$6,291.07	\$6,187.36	\$13,928.25
1/03/2012	29	\$ 17,836.68	\$17,971.67	\$20,793.70	\$20,013.17	\$22,623.30
1/02/2012	28	\$ 23,139.88	\$27,203.86	\$31,483.65	\$30,103.97	\$30,044.95
4/01/2012	34	\$ 41,141.10	\$48,641.51	\$51,838.91	\$50,173.53	\$50,104.36
Total	368	\$272,259.17	\$290,737.14	\$303,220.68	\$298,470.32	\$338,798.52

(Source: Ergon Energy)

Appendix 4 – Current Tariff and Alternative Tariff Data/Costing Details for Warren’s Gully Pump Station Ergon Account Number 67407161

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	234790	331	92834	128419	13537	60%
1/11/2012	30	230270	335	97733	118427	14110	58%
2/10/2012	25	98711	335	41149	52280	5282	58%
7/09/2012	30	104199	209	45359	52312	6528	56%
8/08/2012	36	487	27	291	182	14	40%
3/07/2012	32	7308	326	3876	2774	658	47%
1/06/2012	31	91235	181	40008	45562	5665	56%
1/05/2012	29	63031	342	23388	36396	3247	63%
2/04/2012	32	12640	167	7327	4296	1017	42%
1/03/2012	29	98015	329	38449	53800	5766	61%
1/02/2012	28	120896	352	45850	68666	6380	62%
4/01/2012	33	250411	337	99770	136365	14276	60%
Total	367	1311993					

Date	Days	Cost				
		T43 (2011 Rates)	T43	T44	T45	T46
3/12/2012	32	\$33,759.67	\$37,279.48	\$39,163.03	\$38,175.48	\$40,245.50
1/11/2012	30	\$33,471.12	\$37,212.37	\$38,030.41	\$37,087.05	\$38,915.18
2/10/2012	25	\$17,395.10	\$18,412.74	\$20,817.82	\$20,031.69	\$21,555.13
7/09/2012	30	\$19,588.97	\$18,126.85	\$19,221.23	\$18,830.27	\$24,202.69
8/08/2012	36	\$9,528.95	\$4,890.29	\$1,546.40	\$5,056.92	\$14,508.03
3/07/2012	32	\$9,323.03	\$7,851.54	\$12,442.47	\$11,478.31	\$13,698.36
1/06/2012	31	\$18,419.76	\$16,468.77	\$17,002.99	\$16,725.84	\$23,091.21
1/05/2012	29	\$14,245.52	\$14,369.40	\$18,361.70	\$17,420.12	\$18,996.96
2/04/2012	32	\$10,033.07	\$6,222.49	\$7,550.44	\$7,329.82	\$14,320.60
1/03/2012	29	\$18,188.66	\$18,859.40	\$22,035.74	\$21,149.26	\$23,079.60
1/02/2012	28	\$20,168.65	\$21,751.19	\$25,038.48	\$24,088.45	\$25,348.39
4/01/2012	33	\$35,766.50	\$39,713.81	\$41,568.18	\$40,520.84	\$42,469.90
Total	367	\$239,889.00	\$241,158.33	\$262,778.90	\$257,894.06	\$300,431.54

(Source: Ergon Energy)

Appendix 5 – Current Tariff and Alternative Tariff Data/Costing Details for Down River Pump Station Ergon Account Number 67407188

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	25414	62	7787	15395	2232	69%
1/11/2012	29	20639	64	5948	12801	1890	71%
3/10/2012	26	6998	67	1713	4782	503	76%
7/09/2012	30	12567	66	4609	7079	879	63%
8/08/2012	36	29	7	15	11	3	48%
3/07/2012	32	4659	66	2703	1330	626	42%
1/06/2012	31	6767	67	1371	5020	376	80%
1/05/2012	29	5060	67	2461	2223	376	51%
2/04/2012	32	20	1	7	12	1	65%
1/03/2012	29	9865	63	3939	5448	478	60%
1/02/2012	28	17702	62	7266	9352	1084	59%
4/01/2012	34	35200	61	13557	19302	2341	61%
Total	368	144920					

Date	Days	Cost				
		T22	T44	T45	T46	T22 (2011 Rates)
3/12/2012	32	\$5,247.71	\$5,399.66	\$7,410.33	\$15,811.33	\$4,373.21
1/11/2012	29	\$4,175.32	\$4,677.11	\$6,436.42	\$14,049.82	\$3,479.53
3/10/2012	26	\$1,364.82	\$2,935.06	\$4,427.84	\$11,253.64	\$1,137.40
7/09/2012	30	\$2,797.19	\$3,878.36	\$5,633.31	\$13,509.24	\$2,331.06
8/08/2012	36	\$57.04	\$1,492.95	\$5,003.47	\$14,454.58	\$47.56
3/07/2012	32	\$1,305.32	\$3,116.28	\$4,988.23	\$13,389.22	\$1,087.81
1/06/2012	31	\$1,259.08	\$3,315.49	\$5,095.34	\$13,233.80	\$1,049.28
1/05/2012	29	\$1,295.39	\$2,953.33	\$4,618.35	\$12,231.75	\$1,079.53
2/04/2012	32	\$48.42	\$1,326.39	\$4,446.85	\$12,847.85	\$40.38
1/03/2012	29	\$2,280.61	\$3,388.35	\$5,179.09	\$12,792.49	\$1,900.56
1/02/2012	28	\$4,106.88	\$4,195.44	\$5,954.78	\$13,305.65	\$3,422.48
4/01/2012	34	\$7,921.84	\$6,656.96	\$8,830.14	\$17,756.20	\$6,601.68
Total	368	\$31,859.65	\$43,335.39	\$68,024.15	\$164,635.55	\$26,550.49

(Source: Ergon Energy)

Appendix 6 – Current Tariff and Alternative Tariff Data/Costing Details for Rita Island Pump Station Ergon Account Number 67412491

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	31817	48	12633	17371	1813	60%
1/11/2012	30	28622	47	12100	14781	1741	58%
2/10/2012	25	20771	47	7489	12293	989	64%
7/09/2012	30	21542	55	9744	10360	1438	55%
8/08/2012	36	3002	66	926	1990	86	69%
3/07/2012	32	21	1	6	13	2	71%
1/06/2012	31	21006	55	8509	11184	1313	59%
1/05/2012	29	11981	48	4407	6937	637	63%
2/04/2012	32	0	0	0	0	0	0%
1/03/2012	29	13530	52	5200	7574	756	62%
1/02/2012	28	26171	100	10805	13789	1577	59%
4/01/2012	34	38991	107	15787	20889	2315	60%
Total	368	217454					

Date	Days	Cost				
		T22 (Large)	T44	T45	T46	T22 (2011 Rates)
3/12/2012	32	\$7,253.52	\$5,661.36	\$8,157.56	\$16,558.56	\$6,044.74
1/11/2012	30	\$6,704.01	\$5,134.22	\$7,506.93	\$15,382.85	\$5,586.80
2/10/2012	25	\$4,558.32	\$3,919.00	\$5,896.26	\$12,459.53	\$3,798.69
7/09/2012	30	\$5,209.40	\$4,568.09	\$6,680.69	\$14,556.62	\$4,341.26
8/08/2012	36	\$665.79	\$3,244.48	\$5,350.42	\$14,801.53	\$554.86
3/07/2012	32	\$48.31	\$1,326.51	\$4,446.97	\$12,847.96	\$40.29
1/06/2012	31	\$4,843.08	\$4,574.01	\$6,757.03	\$14,895.49	\$4,036.00
1/05/2012	29	\$2,670.42	\$3,163.85	\$5,426.03	\$13,039.43	\$2,225.41
2/04/2012	32	\$44.12	\$1,324.06	\$4,444.52	\$12,845.51	\$36.79
1/03/2012	29	\$3,064.28	\$3,470.33	\$5,606.80	\$13,220.20	\$2,553.63
1/02/2012	28	\$6,068.36	\$6,336.92	\$6,943.11	\$14,293.98	\$5,057.07
4/01/2012	34	\$8,955.44	\$8,794.40	\$9,272.55	\$18,198.61	\$7,463.03
Total	368	\$50,085.06	\$51,517.24	\$76,488.87	\$173,100.27	\$41,738.57

(Source: Ergon Energy)

Appendix 7 – Current Tariff and Alternative Tariff Data/Costing Details for Kilrie Gully Pump Station Ergon Account Number 67502261

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
3/12/2012	32	59060	138	21172	32608	5280	64%
1/11/2012	30	51271	145	22227	24915	4129	57%
2/10/2012	25	45660	138	20462	21295	3903	55%
7/09/2012	30	38001	138	17496	17005	3500	54%
8/08/2012	36	31	1	11	20	0	65%
3/07/2012	32	37	1	15	21	1	59%
1/06/2012	31	48267	139	22879	20953	4435	53%
1/05/2012	29	32516	137	12698	16656	3162	61%
2/04/2012	32	146	1	84	55	7	42%
1/03/2012	29	6463	133	2170	4263	30	66%
1/02/2012	28	26282	135	9891	14477	1914	62%
4/01/2012	34	62364	137	21336	35955	5073	66%
Total	368	370098					

Date	Days	Cost				
		T22 (Large)	T44	T45	T46	T22 (2011 Rates)
3/12/2012	32	\$12,877.77	\$11,961.91	\$11,876.91	\$19,737.81	\$10,731.70
1/11/2012	30	\$12,109.27	\$10,963.68	\$10,853.30	\$18,025.99	\$10,091.25
2/10/2012	25	\$10,942.48	\$9,289.15	\$9,222.74	\$15,364.08	\$9,118.91
7/09/2012	30	\$9,232.00	\$9,187.47	\$9,107.78	\$16,477.38	\$7,693.48
8/08/2012	36	\$56.34	\$1,493.18	\$5,003.70	\$14,454.82	\$46.98
3/07/2012	32	\$52.58	\$1,328.38	\$4,448.84	\$12,849.83	\$43.84
1/06/2012	31	\$11,874.37	\$10,577.54	\$10,490.66	\$18,076.85	\$9,895.49
1/05/2012	29	\$7,356.57	\$8,357.52	\$8,284.72	\$15,435.86	\$6,130.61
2/04/2012	32	\$83.47	\$335.35	\$4,461.56	\$12,862.55	\$69.58
1/03/2012	29	\$1,409.00	\$5,191.41	\$4,782.08	\$12,395.48	\$1,174.21
1/02/2012	28	\$5,862.71	\$7,411.98	\$7,349.88	\$14,306.93	\$4,885.70
4/01/2012	34	\$13,352.66	\$12,627.49	\$12,542.14	\$20,926.23	\$11,127.45
Total	368	\$85,209.21	\$88,725.05	\$98,424.30	\$190,913.82	\$71,009.21

(Source: Ergon Energy)

Appendix 8 – Current Tariff and Alternative Tariff Data/Costing Details for Klondyke Lilliesmere Pump Station Ergon Account Number 68955693

Date	Days	Meter Data					
		Total	Demand (kW)	Day (7am - 7pm)	Night	Shoulder	% Night
30/11/2012	30	87815	191	36434	47019	4361	59%
31/10/2012	31	76189	188	35395	33034	7759	54%
30/09/2012	30	57501	190	23109	28379	6012	60%
31/08/2012	31	23622	196	9507	11845	2269	60%
31/07/2012	31	0	0	0	0	0	0%
30/06/2012	30	0	0	0	0	0	0%
31/05/2012	31	39192	195	17567	16744	4881	55%
30/04/2012	30	36474	193	14967	17183	4323	59%
31/03/2012	31	0	0	0	0	0	0%
29/02/2012	29	7442	181	1826	5616	0	75%
31/01/2012	31	56932	199	25133	28236	3562	56%
31/12/2011	31	80086	199	33899	41272	4914	58%
Total	366	465253					

Date	Days	Cost				
		T22 (Large)	T44	T45	T46	T22 (2011 Rates)
30/11/2012	30	\$20,316.68	\$16,723.98	\$16,411.93	\$22,290.68	\$16,930.88
31/10/2012	31	\$18,545.45	\$10,173.94	\$15,173.44	\$21,335.35	\$15,454.82
30/09/2012	30	\$13,137.37	\$7,951.67	\$12,846.16	\$18,753.03	\$10,948.02
31/08/2012	31	\$5,425.91	\$4,039.37	\$9,271.41	\$15,200.78	\$4,521.69
31/07/2012	31	\$42.74	\$1,282.68	\$4,305.63	\$12,444.09	\$35.64
30/06/2012	30	\$41.36	\$1,241.31	\$4,166.74	\$12,042.67	\$34.49
31/05/2012	31	\$9,406.43	\$11,399.93	\$11,059.36	\$17,017.80	\$7,838.85
30/04/2012	30	\$8,422.68	\$10,797.51	\$10,476.69	\$16,299.18	\$7,019.05
31/03/2012	31	\$42.74	\$1,282.68	\$4,305.63	\$12,444.09	\$35.64
29/02/2012	29	\$1,454.32	\$6,814.29	\$6,555.02	\$12,509.73	\$1,211.98
31/01/2012	31	\$13,551.82	\$13,604.57	\$13,245.88	\$19,088.05	\$11,293.40
31/12/2011	31	\$18,695.34	\$16,306.65	\$15,947.96	\$21,790.13	\$15,579.74
Total	366	\$109,082.83	\$101,618.57	\$123,765.84	\$201,215.56	\$90,904.21

(Source: Ergon Energy)