# Information Disclosure prepared Under Part 4 of the Commerce Act 1986

## For the Assessment Period: 1 April 2016 to 31 March 2017

# EDB Information Disclosure Requirements
# Information Templates
# for
## Schedules 1–10

| | |
|---|---|
| **Company Name** | Top Energy Ltd |
| **Disclosure Date** | 31 August 2017 |
| **Disclosure Year (year ended)** | 31 March 2017 |

**Templates for Schedules 1–10 excluding 5f–5g**

**Template Version 4.1. Prepared 24 March 2015**

## Table of Contents

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

## 7 1(i): Expenditure metrics

| sch ref | | Expenditure per GWh energy delivered to ICPs ($/GWh) | Expenditure per average no. of ICPs ($/ICP) | Expenditure per MW maximum coincident system demand ($/MW) | Expenditure per km circuit length ($/km) | Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA) |
|---|---|---|---|---|---|---|
| 8 | | | | | | |
| 9 | **Operational expenditure** | 44,207 | 454 | 207,052 | 3,530 | 50,910 |
| 10 | Network | 18,310 | 188 | 85,759 | 1,462 | 21,087 |
| 11 | Non-network | 25,897 | 266 | 121,293 | 2,068 | 29,824 |
| 12 | | | | | | |
| 13 | **Expenditure on assets** | 46,425 | 476 | 217,438 | 3,707 | 53,464 |
| 14 | Network | 44,954 | 461 | 210,548 | 3,589 | 51,770 |
| 15 | Non-network | 1,471 | 15 | 6,891 | 117 | 1,694 |
| 16 | | | | | | |

## 17 1(ii): Revenue metrics

| sch ref | | Revenue per GWh energy delivered to ICPs ($/GWh) | Revenue per average no. of ICPs ($/ICP) |
|---|---|---|---|
| 18 | | | |
| 19 | **Total consumer line charge revenue** | 156,378 | 1,604 |
| 20 | Standard consumer line charge revenue | 183,623 | 1,548 |
| 21 | Non-standard consumer line charge revenue | 30,831 | 442,251 |
| 22 | | | |

## 23 1(iii): Service intensity measures

| sch ref | | | |
|---|---|---|---|
| 24 | | | |
| 25 | Demand density | 17 | *Maximum coincident system demand per km of circuit length (for supply) (kW/km)* |
| 26 | Volume density | 80 | *Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)* |
| 27 | Connection point density | 8 | *Average number of ICPs per km of circuit length (for supply) (ICPs/km)* |
| 28 | Energy intensity | 10,259 | *Total energy delivered to ICPs per average number of ICPs (kWh/ICP)* |
| 29 | | | |

## 30 1(iv): Composition of regulatory income

| sch ref | | ($000) | % of revenue |
|---|---|---|---|
| 31 | | | |
| 32 | Operational expenditure | 14,225 | 28.06% |
| 33 | Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,442 | 16.65% |
| 34 | Total depreciation | 8,307 | 16.39% |
| 35 | Total revaluations | 4,864 | 9.59% |
| 36 | Regulatory tax allowance | 4,157 | 8.20% |
| 37 | Regulatory profit/(loss) including financial incentives and wash-ups | 20,431 | 40.30% |
| 38 | **Total regulatory income** | 50,699 | |
| 39 | | | |

## 40 1(v): Reliability

| sch ref | | | |
|---|---|---|---|
| 41 | | | |
| 42 | Interruption rate | 15.33 | *Interruptions per 100 circuit km* |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | CY-2 | CY-1 | Current Year CY |
|---|---|---|---|---|
| *7* | **2(i): Return on Investment** | | | |
| *8* | | 31 Mar 15 | 31 Mar 16 | 31 Mar 17 |
| *9* | **ROI – comparable to a post tax WACC** | % | % | % |
| *10* | Reflecting all revenue earned | 2.68% | 6.34% | 8.83% |
| *11* | Excluding revenue earned from financial incentives | 2.01% | 5.64% | 8.21% |
| *12* | Excluding revenue earned from financial incentives and wash-ups | 2.01% | 4.90% | 7.44% |
| *13* | | | | |
| *14* | **Mid-point estimate of post tax WACC** | 6.10% | 5.37% | 4.77% |
| *15* | 25th percentile estimate | 5.39% | 4.66% | 4.05% |
| *16* | 75th percentile estimate | 6.82% | 6.09% | 5.48% |
| *17* | | | | |
| *18* | | | | |
| *19* | **ROI – comparable to a vanilla WACC** | | | |
| *20* | Reflecting all revenue earned | 3.47% | 6.99% | 9.37% |
| *21* | Excluding revenue earned from financial incentives | 2.79% | 6.29% | 8.75% |
| *22* | Excluding revenue earned from financial incentives and wash-ups | 2.79% | 5.55% | 7.98% |
| *23* | | | | |
| *24* | **WACC rate used to set regulatory price path** | 8.77% | 7.19% | 7.19% |
| *25* | | | | |
| *26* | **Mid-point estimate of vanilla WACC** | 6.89% | 6.02% | 5.31% |
| *27* | 25th percentile estimate | 6.17% | 5.30% | 4.59% |
| *28* | 75th percentile estimate | 7.60% | 6.74% | 6.03% |
| *29* | | | | |

| *sch ref* | | | | | |
|---|---|---|---|---|---|
| *30* | | **2(ii): Information Supporting the ROI** | | ($000) | |
| *31* | | | | | |
| *32* | | Total opening RAB value | 224,551 | | |
| *33* | *plus* | Opening deferred tax | (6,810) | | |
| *34* | | **Opening RIV** | | 217,741 | |
| *35* | | | | | |
| *36* | | **Line charge revenue** | | 50,319 | |
| *37* | | | | | |
| *38* | | Expenses cash outflow | 22,667 | | |
| *39* | *add* | Assets commissioned | 16,730 | | |
| *40* | *less* | Asset disposals | 7 | | |
| *41* | *add* | Tax payments | 2,440 | | |
| *42* | *less* | Other regulated income | 380 | | |
| *43* | | **Mid-year net cash outflows** | | 41,449 | |
| *44* | | | | | |
| *45* | | **Term credit spread differential allowance** | | – | |
| *46* | | | | | |
| *47* | | Total closing RAB value | 237,830 | | |
| *48* | *less* | Adjustment resulting from asset allocation | 0 | | |
| *49* | *less* | Lost and found assets adjustment | – | | |
| *50* | *plus* | Closing deferred tax | (8,527) | | |
| *51* | | **Closing RIV** | | 229,303 | |
| *52* | | | | | |
| *53* | | **ROI – comparable to a vanilla WACC** | | | 9.37% |
| *54* | | | | | |
| *55* | | Leverage (%) | | | 44% |
| *56* | | Cost of debt assumption (%) | | | 4.41% |
| *57* | | Corporate tax rate (%) | | | 28% |
| *58* | | | | | |
| *59* | | **ROI – comparable to a post tax WACC** | | | 8.83% |
| *60* | | | | | |

*Company Name* **Top Energy Ltd**
*For Year Ended* **31 March 2017**

# SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).
EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

## 2(iii): Information Supporting the Monthly ROI

**Opening RIV** 217,741

| | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated income | Monthly net cash outflows |
|---|---|---|---|---|---|---|
| April | 4,098 | 1,735 | 748 | – | 36 | 2,448 |
| May | 4,205 | 1,995 | 58 | – | 29 | 2,025 |
| June | 4,240 | 1,916 | 942 | – | 55 | 2,803 |
| July | 4,504 | 1,956 | 197 | – | 39 | 2,114 |
| August | 4,413 | 1,887 | 2,220 | – | 32 | 4,075 |
| September | 4,265 | 1,882 | 373 | – | 26 | 2,229 |
| October | 4,284 | 1,920 | 336 | – | 35 | 2,221 |
| November | 4,024 | 1,790 | 123 | – | 48 | 1,865 |
| December | 3,911 | 1,730 | 76 | – | 26 | 1,781 |
| January | 4,318 | 1,853 | 2,433 | – | 31 | 4,255 |
| February | 3,764 | 1,903 | 76 | – | 56 | 1,923 |
| March | 4,293 | 2,098 | 9,147 | 7 | (34) | 11,272 |
| **Total** | 50,319 | 22,667 | 16,730 | 7 | 380 | 39,009 |

| | |
|---|---|
| **Tax payments** | 2,440 |
| **Term credit spread differential allowance** | – |
| **Closing RIV** | 229,303 |
| **Monthly ROI – comparable to a vanilla WACC** | 9.55% |
| **Monthly ROI – comparable to a post tax WACC** | 9.00% |

## 2(iv): Year-End ROI Rates for Comparison Purposes

| | |
|---|---|
| **Year-end ROI – comparable to a vanilla WACC** | 7.23% |
| **Year-end ROI – comparable to a post tax WACC** | 6.68% |

** these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.*

## 2(v): Financial Incentives and Wash-Ups

| | | |
|---|---|---|
| Net recoverable costs allowed under incremental rolling incentive scheme | – | |
| Purchased assets – avoided transmission charge | 1,804 | |
| Energy efficiency and demand incentive allowance | – | |
| Quality incentive adjustment | – | |
| Other financial incentives | – | |
| **Financial incentives** | | 1,804 |
| **Impact of financial incentives on ROI** | | 0.61% |
| Input methodology claw-back | 1,649 | |
| Recoverable customised price-quality path costs | – | |
| Catastrophic event allowance | – | |
| Capex wash-up adjustment | 22 | |
| Transmission asset wash-up adjustment | – | |
| 2013–2015 NPV wash-up allowance | 614 | |
| Reconsideration event allowance | – | |
| Other wash-ups | – | |
| **Wash-up costs** | | 2,285 |
| **Impact of wash-up costs on ROI** | | 0.77% |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | |
|---|---|---|---|---|
| *7* | **3(i): Regulatory Profit** | | | **($000)** |
| *8* | | **Income** | | |
| *9* | | Line charge revenue | | 50,319 |
| *10* | *plus* | Gains / (losses) on asset disposals | | (116) |
| *11* | *plus* | Other regulated income (other than gains / (losses) on asset disposals) | | 496 |
| *12* | | | | |
| *13* | | **Total regulatory income** | | 50,699 |
| *14* | | **Expenses** | | |
| *15* | *less* | Operational expenditure | | 14,225 |
| *16* | | | | |
| *17* | *less* | Pass-through and recoverable costs excluding financial incentives and wash-ups | | 8,442 |
| *18* | | | | |
| *19* | | **Operating surplus / (deficit)** | | 28,032 |
| *20* | | | | |
| *21* | *less* | Total depreciation | | 8,307 |
| *22* | | | | |
| *23* | *plus* | Total revaluations | | 4,864 |
| *24* | | | | |
| *25* | | **Regulatory profit / (loss) before tax** | | 24,589 |
| *26* | | | | |
| *27* | *less* | Term credit spread differential allowance | | – |
| *28* | | | | |
| *29* | *less* | Regulatory tax allowance | | 4,157 |
| *30* | | | | |
| *31* | | **Regulatory profit/(loss) including financial incentives and wash-ups** | | 20,431 |
| *32* | | | | |
| *33* | **3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups** | | **($000)** | |
| *34* | | **Pass through costs** | | |
| *35* | | Rates | 33 | |
| *36* | | Commerce Act levies | 94 | |
| *37* | | Industry levies | 95 | |
| *38* | | CPP specified pass through costs | – | |
| *39* | | **Recoverable costs excluding financial incentives and wash-ups** | | |
| *40* | | Electricity lines service charge payable to Transpower | 5,472 | |
| *41* | | Transpower new investment contract charges | – | |
| *42* | | System operator services | – | |
| *43* | | Distributed generation allowance | 2,748 | |
| *44* | | Extended reserves allowance | – | |
| *45* | | Other recoverable costs excluding financial incentives and wash-ups | – | |
| *46* | | **Pass-through and recoverable costs excluding financial incentives and wash-ups** | | 8,442 |
| *47* | | | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | |
|---|---|---|---|---|
| *48* | **3(iii): Incremental Rolling Incentive Scheme** | | **($000)** | |
| *49* | | | **CY-1** | **CY** |
| *50* | | | **31 Mar 16** | **31 Mar 17** |
| *51* | Allowed controllable opex | | – | – |
| *52* | Actual controllable opex | | – | – |
| *53* | | | | |
| *54* | Incremental change in year | | | – |
| *55* | | | | |
| *56* | | | **Previous years' incremental change** | **Previous years' incremental change adjusted for inflation** |
| *57* | CY-5 | 31 Mar 12 | – | – |
| *58* | CY-4 | 31 Mar 13 | – | – |
| *59* | CY-3 | 31 Mar 14 | – | – |
| *60* | CY-2 | 31 Mar 15 | – | – |
| *61* | CY-1 | 31 Mar 16 | – | – |
| *62* | **Net incremental rolling incentive scheme** | | | – |
| *63* | | | | |
| *64* | **Net recoverable costs allowed under incremental rolling incentive scheme** | | | – |
| *65* | **3(iv): Merger and Acquisition Expenditure** | | | |
| *70* | | | | **($000)** |
| *66* | Merger and acquisition expenditure | | | – |
| *67* | | | | |
| *68* | *Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)* | | | |
| *69* | **3(v): Other Disclosures** | | | |
| *70* | | | | **($000)** |
| *71* | Self-insurance allowance | | | – |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | | | |
|---|---|---|---|---|---|---|
| 7 | **4(i): Regulatory Asset Base Value (Rolled Forward)** | | **RAB** | **RAB** | **RAB** | **RAB** | **RAB** |
| 8 | | for year ended | **31 Mar 13** | **31 Mar 14** | **31 Mar 15** | **31 Mar 16** | **31 Mar 17** |
| 9 | | | **($000)** | **($000)** | **($000)** | **($000)** | **($000)** |
| 10 | **Total opening RAB value** | | 159,896 | 183,789 | 199,303 | 216,722 | 224,551 |
| 11 | | | | | | | |
| 12 | *less* **Total depreciation** | | 6,836 | 7,326 | 8,072 | 8,425 | 8,307 |
| 13 | | | | | | | |
| 14 | *plus* **Total revaluations** | | 1,374 | 2,817 | 167 | 1,268 | 4,864 |
| 15 | | | | | | | |
| 16 | *plus* **Assets commissioned** | | 29,409 | 20,087 | 25,379 | 15,017 | 16,730 |
| 17 | | | | | | | |
| 18 | *less* **Asset disposals** | | 54 | 63 | 55 | 31 | 7 |
| 19 | | | | | | | |
| 20 | *plus* **Lost and found assets adjustment** | | – | – | – | – | – |
| 21 | | | | | | | |
| 22 | *plus* **Adjustment resulting from asset allocation** | | – | – | (0) | (0) | 0 |
| 23 | | | | | | | |
| 24 | **Total closing RAB value** | | 183,789 | 199,303 | 216,722 | 224,551 | 237,830 |
| 25 | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 26 | **4(ii): Unallocated Regulatory Asset Base** | | | | |
| 27 | | **Unallocated RAB *** | | **RAB** | |
| 28 | | **($000)** | **($000)** | **($000)** | **($000)** |
| 29 | **Total opening RAB value** | | 224,551 | | 224,551 |
| 30 | *less* | | | | |
| 31 | **Total depreciation** | | 8,307 | | 8,307 |
| 32 | *plus* | | | | |
| 33 | **Total revaluations** | | 4,864 | | 4,864 |
| 34 | *plus* | | | | |
| 35 | Assets commissioned (other than below) | 11,616 | | 11,616 | |
| 36 | Assets acquired from a regulated supplier | | | | |
| 37 | Assets acquired from a related party | 5,114 | | 5,114 | |
| 38 | **Assets commissioned** | | 16,730 | | 16,730 |
| 39 | *less* | | | | |
| 40 | Asset disposals (other than below) | 7 | | 7 | |
| 41 | Asset disposals to a regulated supplier | | | | |
| 42 | Asset disposals to a related party | | | | |
| 43 | **Asset disposals** | | 7 | | 7 |
| 44 | | | | | |
| 45 | *plus* **Lost and found assets adjustment** | | | | |
| 46 | | | | | |
| 47 | *plus* **Adjustment resulting from asset allocation** | | | | 0 |
| 48 | | | | | |
| 49 | **Total closing RAB value** | | 237,830 | | 237,830 |

50 ** The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.*

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

*51*

## *52* 4(iii): Calculation of Revaluation Rate and Revaluation of Assets

| *sch ref* | | | Unallocated RAB * | | RAB | |
|---|---|---|---|---|---|---|
| *53* | | | | | | |
| *54* | | $CPI_4$ | | | | 1,226 |
| *55* | | $CPI_4^{-4}$ | | | | 1,200 |
| *56* | | Revaluation rate (%) | | | | 2.17% |
| *57* | | | | | | |
| *58* | | | **Unallocated RAB *** | | **RAB** | |
| *59* | | | **($000)** | **($000)** | **($000)** | **($000)** |
| *60* | | Total opening RAB value | 224,551 | | 224,551 | |
| *61* | *less* | Opening value of fully depreciated, disposed and lost assets | 74 | | 74 | |
| *62* | | | | | | |
| *63* | | Total opening RAB value subject to revaluation | 224,477 | | 224,477 | |
| *64* | | **Total revaluations** | | 4,864 | | 4,864 |
| *65* | | | | | | |

## *66* 4(iv): Roll Forward of Works Under Construction

| *sch ref* | | | Unallocated works under construction | | Allocated works under construction | |
|---|---|---|---|---|---|---|
| *67* | | | **Unallocated works under construction** | | **Allocated works under construction** | |
| *68* | | **Works under construction—preceding disclosure year** | | 9,509 | | 9,509 |
| *69* | *plus* | Capital expenditure | 14,029 | | 14,029 | |
| *70* | *less* | Assets commissioned | 16,730 | | 16,730 | |
| *71* | *plus* | Adjustment resulting from asset allocation | | | | |
| *72* | | **Works under construction - current disclosure year** | | 6,808 | | 6,808 |
| *73* | | | | | | |
| *74* | | Highest rate of capitalised finance applied | | | | 3.12% |
| *75* | | | | | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

76 **4(v): Regulatory Depreciation**

| *sch ref* | | Unallocated RAB * | | RAB | |
|---|---|---|---|---|---|
| 78 | | ($000) | ($000) | ($000) | ($000) |
| 79 | Depreciation - standard | 8,307 | | 8,307 | |
| 80 | Depreciation - no standard life assets | | | | |
| 81 | Depreciation - modified life assets | | | | |
| 82 | Depreciation - alternative depreciation in accordance with CPP | | | | |
| 83 | **Total depreciation** | | 8,307 | | 8,307 |
| 84 | | | | | |

85 **4(vi): Disclosure of Changes to Depreciation Profiles**

**($000 unless otherwise specified)**

| *sch ref* | Asset or assets with changes to depreciation* | Reason for non-standard depreciation (text entry) | Depreciation charge for the period (RAB) | Closing RAB value under 'non-standard' depreciation | Closing RAB value under 'standard' depreciation |
|---|---|---|---|---|---|
| 87 | | | | | |
| 88 | | | | | |
| 89 | | | | | |
| 90 | | | | | |
| 91 | | | | | |
| 92 | | | | | |
| 93 | | | | | |
| 94 | | | | | |

95 ** include additional rows if needed*

96 **4(vii): Disclosure by Asset Category**

97 **($000 unless otherwise specified)**

| *sch ref* | | | Subtransmission lines | Subtransmission cables | Zone substations | Distribution and LV lines | Distribution and LV cables | Distribution substations and transformers | Distribution switchgear | Other network assets | Non-network assets | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 99 | | **Total opening RAB value** | 45,686 | 7,954 | 37,262 | 45,093 | 36,392 | 27,675 | 14,925 | 5,361 | 4,203 | 224,551 |
| 100 | *less* | Total depreciation | 928 | 141 | 1,254 | 1,747 | 1,241 | 1,191 | 852 | 370 | 582 | 8,307 |
| 101 | *plus* | Total revaluations | 990 | 172 | 807 | 977 | 789 | 600 | 323 | 116 | 90 | 4,864 |
| 102 | *plus* | Assets commissioned | 7,058 | 1,053 | 1,236 | 3,468 | 978 | 702 | 1,797 | 93 | 344 | 16,730 |
| 103 | *less* | Asset disposals | – | – | – | – | – | – | – | – | 7 | 7 |
| 104 | *plus* | Lost and found assets adjustment | – | – | – | – | – | – | – | – | – | – |
| 105 | *plus* | Adjustment resulting from asset allocation | – | – | – | – | – | – | – | – | – | – |
| 106 | *plus* | Asset category transfers | – | – | – | – | – | – | – | – | – | – |
| 107 | | **Total closing RAB value** | 52,806 | 9,039 | 38,050 | 47,791 | 36,917 | 27,786 | 16,193 | 5,199 | 4,048 | 237,830 |
| 108 | | | | | | | | | | | | |
| 109 | | **Asset Life** | | | | | | | | | | |
| 110 | | Weighted average remaining asset life | 49.2 | 56.5 | 29.7 | 25.8 | 29.3 | 23.2 | 17.5 | 14.5 | 3.2 | (years) |
| 111 | | Weighted average expected total asset life | 62.4 | 60.0 | 37.5 | 42.3 | 44.9 | 44.1 | 36.6 | 19.4 | 3.8 | (years) |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 3.8

*sch ref*

### 5a(i): Regulatory Tax Allowance

| | | | | ($000) |
|---|---|---|---|---|
| | **Regulatory profit / (loss) before tax** | | | 24,589 |
| *plus* | Income not included in regulatory profit / (loss) before tax but taxable | – | * | |
| | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | 16 | * | |
| | Amortisation of initial differences in asset values | 3,399 | | |
| | Amortisation of revaluations | 1,034 | | |
| | | | | 4,449 |
| *less* | Total revaluations | 4,864 | | |
| | Income included in regulatory profit / (loss) before tax but not taxable | – | * | |
| | Discretionary discounts and customer rebates | 5,191 | | |
| | Expenditure or loss deductible but not in regulatory profit / (loss) before tax | – | * | |
| | Notional deductible interest | 4,135 | | |
| | | | | 14,190 |
| | **Regulatory taxable income** | | | 14,848 |
| *less* | Utilised tax losses | – | | |
| | Regulatory net taxable income | | | 14,848 |
| | Corporate tax rate (%) | 28% | | |
| | **Regulatory tax allowance** | | | 4,157 |

* Workings to be provided in Schedule 14

### 5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

### 5a(iii): Amortisation of Initial Difference in Asset Values

| | | | ($000) |
|---|---|---|---|
| | Opening unamortised initial differences in asset values | 67,982 | |
| *less* | Amortisation of initial differences in asset values | 3,399 | |
| *plus* | Adjustment for unamortised initial differences in assets acquired | – | |
| *less* | Adjustment for unamortised initial differences in assets disposed | – | |
| | Closing unamortised initial differences in asset values | | 64,583 |
| | Opening weighted average remaining useful life of relevant assets (years) | | 20 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | |
|---|---|---|---|---|
| *44* | **5a(iv): Amortisation of Revaluations** | | | **($000)** |
| *45* | | | | |
| *46* | | Opening sum of RAB values without revaluations | 202,305 | |
| *47* | | | | |
| *48* | | Adjusted depreciation | 7,273 | |
| *49* | | Total depreciation | 8,307 | |
| *50* | | Amortisation of revaluations | | 1,034 |
| *51* | | | | |
| *52* | **5a(v): Reconciliation of Tax Losses** | | | **($000)** |
| *53* | | | | |
| *54* | | **Opening tax losses** | – | |
| *55* | *plus* | Current period tax losses | – | |
| *56* | *less* | Utilised tax losses | – | |
| *57* | | **Closing tax losses** | | – |
| *58* | **5a(vi): Calculation of Deferred Tax Balance** | | | **($000)** |
| *59* | | | | |
| *60* | | **Opening deferred tax** | (6,810) | |
| *61* | | | | |
| *62* | *plus* | Tax effect of adjusted depreciation | 2,037 | |
| *63* | | | | |
| *64* | *less* | Tax effect of tax depreciation | 2,760 | |
| *65* | | | | |
| *66* | *plus* | Tax effect of other temporary differences* | (30) | |
| *67* | | | | |
| *68* | *less* | Tax effect of amortisation of initial differences in asset values | 952 | |
| *69* | | | | |
| *70* | *plus* | Deferred tax balance relating to assets acquired in the disclosure year | – | |
| *71* | | | | |
| *72* | *less* | Deferred tax balance relating to assets disposed in the disclosure year | 12 | |
| *73* | | | | |
| *74* | *plus* | Deferred tax cost allocation adjustment | (0) | |
| *75* | | | | |
| *76* | | **Closing deferred tax** | | (8,527) |
| *77* | | | | |
| *78* | **5a(vii): Disclosure of Temporary Differences** | | | |
| *79* | | *In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).* | | |
| *80* | | | | |
| *81* | **5a(viii): Regulatory Tax Asset Base Roll-Forward** | | | |
| *82* | | | | **($000)** |
| *83* | | **Opening sum of regulatory tax asset values** | 119,995 | |
| *84* | *less* | Tax depreciation | 9,856 | |
| *85* | *plus* | Regulatory tax asset value of assets commissioned | 16,730 | |
| *86* | *less* | Regulatory tax asset value of asset disposals | 51 | |
| *87* | *plus* | Lost and found assets adjustment | – | |
| *88* | *plus* | Adjustment resulting from asset allocation | – | |
| *89* | *plus* | Other adjustments to the RAB tax value | – | |
| *90* | | **Closing sum of regulatory tax asset values** | | 126,817 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

7 **5b(i): Summary—Related Party Transactions**

| sch ref | | ($000) |
|---|---|---|
| 8 | Total regulatory income | 79 |
| 9 | Operational expenditure | 6,901 |
| 10 | Capital expenditure | 5,114 |
| 11 | Market value of asset disposals | – |
| 12 | Other related party transactions | 64 |

13 **5b(ii): Entities Involved in Related Party Transactions**

| sch ref | Name of related party | Related party relationship |
|---|---|---|
| 14 | **Name of related party** | **Related party relationship** |
| 15 | Ngawha Generation Ltd | Subsidiary |
| 16 | Top Energy Ltd - Contracting Services division | Division |
| 17 | – | |
| 18 | – | |
| 19 | – | |
| 20 | ** include additional rows if needed* | |

21 **5b(iii): Related Party Transactions**

| sch ref | Name of related party | Related party transaction type | Description of transaction | Value of transaction ($000) | Basis for determining value |
|---|---|---|---|---|---|
| 22 | **Name of related party** | **Related party transaction type** | **Description of transaction** | **Value of transaction ($000)** | **Basis for determining value** |
| 23 | Ngawha Generation Ltd | Opex | | 2,748 | ID clause 2.3.6(1)(b) |
| 24 | Ngawha Generation Ltd | Sales | | 64 | ID clause 2.3.7(2)(c) |
| 25 | Ngawha Generation Ltd | Sales | | 79 | ID clause 2.3.7(2)(c) |
| 26 | Top Energy Ltd - Contracting Services division | Capex | | 5,114 | IM clause 2.2.11(5)(g) |
| 27 | Top Energy Ltd - Contracting Services division | Opex | | 4,153 | ID clause 2.3.6(1)(b) |
| 28 | – | [Select one] | | – | [Select one] |
| 29 | – | [Select one] | | – | [Select one] |
| 30 | – | [Select one] | | – | [Select one] |
| 31 | – | [Select one] | | – | [Select one] |
| 32 | – | [Select one] | | – | [Select one] |
| 33 | – | [Select one] | | – | [Select one] |
| 34 | – | [Select one] | | – | [Select one] |
| 35 | – | [Select one] | | – | [Select one] |
| 36 | – | [Select one] | | – | [Select one] |
| 37 | – | [Select one] | | – | [Select one] |
| 38 | ** include additional rows if needed* | | | | |

*Company Name* **Top Energy Ltd**
*For Year Ended* **31 March 2017**

# SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

7
8 ## 5c(i): Qualifying Debt (may be Commission only)
9

| sch ref | Issuing party | Issue date | Pricing date | Original tenor (in years) | Coupon rate (%) | Book value at issue date (NZD) | Book value at date of financial statements (NZD) | Term Credit Spread Difference | Cost of executing an interest rate swap | Debt issue cost readjustment |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | Average tenure is less than 5 years, therefore no disclosure required for this schedule | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | ** include additional rows if needed* | | | | | | – | – | – | – |

17
18 ## 5c(ii): Attribution of Term Credit Spread Differential
19

| sch ref | | | |
|---|---|---|---|
| 20 | **Gross term credit spread differential** | | – |
| 21 | | | |
| 22 | Total book value of interest bearing debt | | |
| 23 | Leverage | 44% | |
| 24 | Average opening and closing RAB values | | |
| 25 | **Attribution Rate (%)** | | – |
| 26 | | | |
| 27 | **Term credit spread differential allowance** | | – |

| | |
|---|---|
| *Company Name* | Top Energy Ltd |
| *For Year Ended* | 31 March 2017 |

## SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

| *sch ref* | | | | | | |
|---|---|---|---|---|---|---|
| 7 | **5d(i): Operating Cost Allocations** | | | | | |
| 8 | | | Value allocated ($000s) | | | |
| 9 | | **Arm's length deduction** | **Electricity distribution services** | **Non-electricity distribution services** | **Total** | **OVABAA allocation increase ($000s)** |
| 10 | **Service interruptions and emergencies** | | | | | |
| 11 | Directly attributable | | 1,635 | | | |
| 12 | Not directly attributable | – | – | – | – | – |
| 13 | **Total attributable to regulated service** | | 1,635 | | | |
| 14 | **Vegetation management** | | | | | |
| 15 | Directly attributable | | 1,762 | | | |
| 16 | Not directly attributable | – | – | – | – | – |
| 17 | **Total attributable to regulated service** | | 1,762 | | | |
| 18 | **Routine and corrective maintenance and inspection** | | | | | |
| 19 | Directly attributable | | 1,947 | | | |
| 20 | Not directly attributable | – | – | – | – | – |
| 21 | **Total attributable to regulated service** | | 1,947 | | | |
| 22 | **Asset replacement and renewal** | | | | | |
| 23 | Directly attributable | | 548 | | | |
| 24 | Not directly attributable | – | – | – | – | – |
| 25 | **Total attributable to regulated service** | | 548 | | | |
| 26 | **System operations and network support** | | | | | |
| 27 | Directly attributable | | 3,980 | | | |
| 28 | Not directly attributable | – | – | – | – | – |
| 29 | **Total attributable to regulated service** | | 3,980 | | | |
| 30 | **Business support** | | | | | |
| 31 | Directly attributable | | 388 | | | |
| 32 | Not directly attributable | – | 3,966 | 1,816 | 5,781 | – |
| 33 | **Total attributable to regulated service** | | 4,353 | | | |
| 34 | | | | | | |
| 35 | **Operating costs directly attributable** | | 10,259 | | | |
| 36 | **Operating costs not directly attributable** | – | 3,966 | 1,816 | 5,781 | – |
| 37 | **Operational expenditure** | | 14,225 | | | |
| 38 | | | | | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | |
|---|---|---|
| 39 | **5d(ii): Other Cost Allocations** | |
| 40 | **Pass through and recoverable costs** | **($000)** |
| 41 | **Pass through costs** | |
| 42 | Directly attributable | 222 |
| 43 | Not directly attributable | – |
| 44 | **Total attributable to regulated service** | 222 |
| 45 | **Recoverable costs** | |
| 46 | Directly attributable | 8,220 |
| 47 | Not directly attributable | – |
| 48 | **Total attributable to regulated service** | 8,220 |
| 49 | | |

| *sch ref* | | | | | |
|---|---|---|---|---|---|
| 50 | **5d(iii): Changes in Cost Allocations* †** | | | | |
| 51 | | | | **($000)** | |
| 52 | **Change in cost allocation 1** | | | **CY-1** | **Current Year (CY)** |
| 53 | Cost category | | Original allocation | | |
| 54 | Original allocator or line items | | New allocation | | |
| 55 | New allocator or line items | | Difference | – | – |
| 56 | | | | | |
| 57 | Rationale for change | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | | | | **($000)** | |
| 61 | **Change in cost allocation 2** | | | **CY-1** | **Current Year (CY)** |
| 62 | Cost category | | Original allocation | | |
| 63 | Original allocator or line items | | New allocation | | |
| 64 | New allocator or line items | | Difference | – | – |
| 65 | | | | | |
| 66 | Rationale for change | | | | |
| 67 | | | | | |
| 68 | | | | | |
| 69 | | | | **($000)** | |
| 70 | **Change in cost allocation 3** | | | **CY-1** | **Current Year (CY)** |
| 71 | Cost category | | Original allocation | | |
| 72 | Original allocator or line items | | New allocation | | |
| 73 | New allocator or line items | | Difference | – | – |
| 74 | | | | | |
| 75 | Rationale for change | | | | |
| 76 | | | | | |
| 77 | | | | | |

78 ** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
79 *† include additional rows if needed*

*Company Name* **Top Energy Ltd**
*For Year Ended* **31 March 2017**

## SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4.
EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

### 7 5e(i): Regulated Service Asset Values

| sch ref | | Value allocated ($000s) Electricity distribution services |
|---|---|---|
| 8 | | |
| 9 | | |
| 10 | **Subtransmission lines** | |
| 11 | Directly attributable | 52,806 |
| 12 | Not directly attributable | – |
| 13 | **Total attributable to regulated service** | 52,806 |
| 14 | **Subtransmission cables** | |
| 15 | Directly attributable | 9,039 |
| 16 | Not directly attributable | – |
| 17 | **Total attributable to regulated service** | 9,039 |
| 18 | **Zone substations** | |
| 19 | Directly attributable | 38,050 |
| 20 | Not directly attributable | – |
| 21 | **Total attributable to regulated service** | 38,050 |
| 22 | **Distribution and LV lines** | |
| 23 | Directly attributable | 47,791 |
| 24 | Not directly attributable | – |
| 25 | **Total attributable to regulated service** | 47,791 |
| 26 | **Distribution and LV cables** | |
| 27 | Directly attributable | 36,918 |
| 28 | Not directly attributable | – |
| 29 | **Total attributable to regulated service** | 36,918 |
| 30 | **Distribution substations and transformers** | |
| 31 | Directly attributable | 27,786 |
| 32 | Not directly attributable | – |
| 33 | **Total attributable to regulated service** | 27,786 |
| 34 | **Distribution switchgear** | |
| 35 | Directly attributable | 16,192 |
| 36 | Not directly attributable | – |
| 37 | **Total attributable to regulated service** | 16,192 |
| 38 | **Other network assets** | |
| 39 | Directly attributable | 5,199 |
| 40 | Not directly attributable | – |
| 41 | **Total attributable to regulated service** | 5,199 |
| 42 | **Non-network assets** | |
| 43 | Directly attributable | – |
| 44 | Not directly attributable | 4,048 |
| 45 | **Total attributable to regulated service** | 4,048 |
| 46 | | |
| 47 | **Regulated service asset value directly attributable** | 233,781 |
| 48 | **Regulated service asset value not directly attributable** | 4,048 |
| 49 | **Total closing RAB value** | 237,830 |
| 50 | | |

### 51 5e(ii): Changes in Asset Allocations* †

| sch ref | | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|---|
| 52 | | | | | |
| 53 | **Change in asset value allocation 1** | | | | |
| 54 | Asset category | – | Original allocation | – | – |
| 55 | Original allocator or line items | – | New allocation | – | – |
| 56 | New allocator or line items | – | Difference | – | – |
| 57 | | | | | |
| 58 | Rationale for change | 0 | | | |
| 59 | | | | | |
| 60 | | | | | |

| sch ref | | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|---|
| 61 | | | | | |
| 62 | **Change in asset value allocation 2** | | | | |
| 63 | Asset category | – | Original allocation | – | – |
| 64 | Original allocator or line items | – | New allocation | – | – |
| 65 | New allocator or line items | – | Difference | – | – |
| 66 | | | | | |
| 67 | Rationale for change | 0 | | | |
| 68 | | | | | |
| 69 | | | | | |

| sch ref | | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|---|
| 70 | | | | | |
| 71 | **Change in asset value allocation 3** | | | | |
| 72 | Asset category | – | Original allocation | – | – |
| 73 | Original allocator or line items | – | New allocation | – | – |
| 74 | New allocator or line items | – | Difference | – | – |
| 75 | | | | | |
| 76 | Rationale for change | 0 | | | |
| 77 | | | | | |
| 78 | | | | | |

79 ** a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
80 *† include additional rows if needed*

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5d (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

| *sch ref* | | |
|---|---|---|
| 7 | | |
| 8 | Have costs been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination? | No |
| 9 | | |

| *sch ref* | Line Item* | Allocation methodology type | Cost allocator | Allocator type | Allocator Metric (%) | | Value allocated ($000) | | | | OVABAA allocation increase ($000) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10–11 | | | | | Electricity distribution services | Non-electricity distribution services | Arm's length deduction | Electricity distribution services | Non-electricity distribution services | Total | |
| 12 | **Service interruptions and emergencies** | | | | | | | | | | |
| 13 | No allocation | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | **Not directly attributable** | | | | | | - | - | - | | - |
| 18 | **Vegetation management** | | | | | | | | | | |
| 19 | No allocation | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 24 | **Routine and corrective maintenance and inspection** | | | | | | | | | | |
| 25 | No allocation | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 30 | **Asset replacement and renewal** | | | | | | | | | | |
| 31 | No allocation | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 35 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 36 | | | | | | | | | | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5d (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | **System operations and network support** | | | | | | | | | | |
| 38 | No allocation | | | | | | | | | - | |
| 39 | | | | | | | | | | - | |
| 40 | | | | | | | | | | - | |
| 41 | | | | | | | | | | - | |
| 42 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 43 | **Business support** | | | | | | | | | | |
| 44 | Corporate property expenses | ABAA | Asset Book Value | Proxy | 70.57% | 29.43% | | 327 | 136 | 464 | - |
| 45 | Corporate computer, telephone & PR | ABAA | Asset Book Value | Proxy | 70.57% | 29.43% | | 672 | 280 | 952 | - |
| 46 | Executive, directors and support | ABAA | Director time spent | Causal | 65.00% | 35.00% | | 1,036 | 558 | 1,593 | - |
| 44 | Audit, insurance,admin and consultancy | ABAA | Asset Book Value | Proxy | 70.57% | 29.43% | | 548 | 228 | 776 | - |
| 45 | Corporate training, recruitment and welfare | ABAA | Asset Book Value | Proxy | 70.57% | 29.43% | | 304 | 127 | 431 | - |
| 46 | Salaries executive and support | ABAA | EBITF | Proxy | 74.21% | 25.79% | | 211 | 73 | 284 | - |
| 45 | Corporate salaries for property, procurement & finance | ABAA | Time spent | Causal | 66.12% | 33.88% | | 484 | 248 | 732 | - |
| 47 | Salaries HR corporate | ABAA | Time spent | Causal | 70.00% | 30.00% | | 384 | 165 | 549 | - |
| 48 | **Not directly attributable** | | | | | | - | 3,966 | 1,816 | 5,781 | - |
| 49 | | | | | | | | | | | |
| 50 | **Operating costs not directly attributable** | | | | | | - | 3,966 | 1,816 | 5,781 | - |
| 51 | | | | | | | | | | | |
| 52 | **Pass through and recoverable costs** | | | | | | | | | | |
| 53 | **Pass through costs** | | | | | | | | | | |
| 54 | No allocation | | | | | | | | | - | |
| 55 | | | | | | | | | | - | |
| 56 | | | | | | | | | | - | |
| 57 | | | | | | | | | | - | |
| 58 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 59 | **Recoverable costs** | | | | | | | | | | |
| 60 | No allocation | | | | | | | | | - | |
| 61 | | | | | | | | | | - | |
| 62 | | | | | | | | | | - | |
| 63 | | | | | | | | | | - | |
| 64 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 65 | ** include additional rows if needed* | | | | | | | | | | |

| | |
|---|---|
| Company Name | Top Energy Ltd |
| For Year Ended | 31 March 2017 |

## SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5e (Report on Asset Allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

7

8 Have assets been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination? Yes

9

| sch ref | Line Item* | Allocation methodology type | Allocator | Allocator type | Allocator Metric (%) Electricity distribution services | Allocator Metric (%) Non-electricity distribution services | Value allocated ($000) Arm's length deduction | Value allocated ($000) Electricity distribution services | Value allocated ($000) Non-electricity distribution services | Value allocated ($000) Total | OVABAA allocation increase ($000) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | **Subtransmission lines** | | | | | | | | | | |
| 13 | All 100% distribution | | | | | | | | | - | |
| 14 | | | | | | | | | | - | |
| 15 | | | | | | | | | | - | |
| 16 | | | | | | | | | | - | |
| 17 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 18 | **Subtransmission cables** | | | | | | | | | | |
| 19 | All 100% distribution | | | | | | | | | - | |
| 20 | | | | | | | | | | - | |
| 21 | | | | | | | | | | - | |
| 22 | | | | | | | | | | - | |
| 23 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 24 | **Zone substations** | | | | | | | | | | |
| 25 | All 100% distribution | | | | | | | | | - | |
| 26 | | | | | | | | | | - | |
| 27 | | | | | | | | | | - | |
| 28 | | | | | | | | | | - | |
| 29 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 30 | **Distribution and LV lines** | | | | | | | | | | |
| 31 | All 100% distribution | | | | | | | | | - | |
| 32 | | | | | | | | | | - | |
| 33 | | | | | | | | | | - | |
| 34 | | | | | | | | | | - | |
| 35 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 36 | **Distribution and LV cables** | | | | | | | | | | |
| 37 | All 100% distribution | | | | | | | | | - | |
| 38 | | | | | | | | | | - | |
| 39 | | | | | | | | | | - | |
| 40 | | | | | | | | | | - | |
| 41 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 42 | | | | | | | | | | | |
| 43 | **Distribution substations and transformers** | | | | | | | | | | |
| 44 | All 100% distribution | | | | | | | | | - | |
| 45 | | | | | | | | | | - | |
| 46 | | | | | | | | | | - | |
| 47 | | | | | | | | | | - | |
| 48 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 49 | | | | | | | | | | | |
| 50 | **Distribution switchgear** | | | | | | | | | | |
| 51 | All 100% distribution | | | | | | | | | - | |
| 52 | | | | | | | | | | - | |
| 53 | | | | | | | | | | - | |
| 54 | | | | | | | | | | - | |
| 55 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 56 | **Other network assets** | | | | | | | | | | |
| 57 | All 100% distribution | | | | | | | | | - | |
| 58 | | | | | | | | | | - | |
| 59 | | | | | | | | | | - | |
| 60 | | | | | | | | | | - | |
| 61 | **Not directly attributable** | | | | | | - | - | - | - | - |
| 62 | **Non-network assets** | | | | | | | | | | |
| 63 | All 100% distribution based on ACAM | ACAM | | | 100.00% | | | 4,048 | | 4,048 | |
| 64 | | | | | | | | | | - | |
| 65 | | | | | | | | | | - | |
| 66 | | | | | | | | | | - | |
| 67 | **Not directly attributable** | | | | | | - | 4,048 | - | 4,048 | - |
| 68 | | | | | | | | | | | |
| 69 | **Regulated service asset value not directly attributable** | | | | | | - | 4,048 | - | 4,048 | - |
| 70 | ** include additional rows if needed* | | | | | | | | | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

| sch ref | | | ($000) | ($000) |
|---|---|---|---|---|
| 7 | | **6a(i): Expenditure on Assets** | **($000)** | **($000)** |
| 8 | | Consumer connection | | 1,260 |
| 9 | | System growth | | 2,431 |
| 10 | | Asset replacement and renewal | | 6,536 |
| 11 | | Asset relocations | | – |
| 12 | | Reliability, safety and environment: | | |
| 13 | | Quality of supply | 90 | |
| 14 | | Legislative and regulatory | – | |
| 15 | | Other reliability, safety and environment | 4,148 | |
| 16 | | **Total reliability, safety and environment** | | 4,238 |
| 17 | | **Expenditure on network assets** | | 14,465 |
| 18 | | Expenditure on non-network assets | | 473 |
| 19 | | | | |
| 20 | | **Expenditure on assets** | | 14,939 |
| 21 | *plus* | Cost of financing | | 107 |
| 22 | *less* | Value of capital contributions | | 1,017 |
| 23 | *plus* | Value of vested assets | | – |
| 24 | | | | |
| 25 | | **Capital expenditure** | | 14,029 |
| 26 | | **6a(ii): Subcomponents of Expenditure on Assets (where known)** | | **($000)** |
| 27 | | Energy efficiency and demand side management, reduction of energy losses | | – |
| 28 | | Overhead to underground conversion | | – |
| 29 | | Research and development | | – |
| 30 | | **6a(iii): Consumer Connection** | | |
| 31 | | *Consumer types defined by EDB** | **($000)** | **($000)** |
| 32 | | Commercial and Industrial | 430 | |
| 33 | | Mass Market | 830 | |
| 34 | | | – | |
| 35 | | | – | |
| 36 | | | – | |
| 37 | | ** include additional rows if needed* | | |
| 38 | | **Consumer connection expenditure** | | 1,260 |
| 39 | | | | |
| 40 | *less* | Capital contributions funding consumer connection expenditure | 1,017 | |
| 41 | | **Consumer connection less capital contributions** | | 243 |

| sch ref | | | System Growth ($000) | Asset Replacement and Renewal ($000) |
|---|---|---|---|---|
| 42 | | **6a(iv): System Growth and Asset Replacement and Renewal** | | **Asset Replacement and** |
| 43 | | | **System Growth** | **Renewal** |
| 44 | | | **($000)** | **($000)** |
| 45 | | Subtransmission | 861 | 1,275 |
| 46 | | Zone substations | 804 | 195 |
| 47 | | Distribution and LV lines | 661 | 3,981 |
| 48 | | Distribution and LV cables | 17 | – |
| 49 | | Distribution substations and transformers | 0 | 300 |
| 50 | | Distribution switchgear | 87 | 785 |
| 51 | | Other network assets | – | – |
| 52 | | **System growth and asset replacement and renewal expenditure** | 2,431 | 6,536 |
| 53 | *less* | Capital contributions funding system growth and asset replacement and renewal | | |
| 54 | | **System growth and asset replacement and renewal less capital contributions** | 2,431 | 6,536 |
| 55 | | | | |

| sch ref | | | ($000) | ($000) |
|---|---|---|---|---|
| 56 | | **6a(v): Asset Relocations** | | |
| 57 | | *Project or programme** | **($000)** | **($000)** |
| 58 | | Nil | – | |
| 59 | | – | – | |
| 60 | | – | – | |
| 61 | | – | – | |
| 62 | | – | – | |
| 63 | | ** include additional rows if needed* | | |
| 64 | | All other projects or programmes - asset relocations | – | |
| 65 | | **Asset relocations expenditure** | | – |
| 66 | *less* | Capital contributions funding asset relocations | – | |
| 67 | | **Asset relocations less capital contributions** | | – |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | |
|---|---|---|---|---|
| 68 | | | | |
| 69 | | **6a(vi): Quality of Supply** | | |
| 70 | | *Project or programme** | **($000)** | **($000)** |
| 71 | | Power Quality Upgrades (C.1703.CU) | 90 | |
| 72 | | – | – | |
| 73 | | – | – | |
| 74 | | – | – | |
| 75 | | – | – | |
| 76 | | ** include additional rows if needed* | | |
| 77 | | All other projects programmes - quality of supply | – | |
| 78 | | **Quality of supply expenditure** | | 90 |
| 79 | *less* | Capital contributions funding quality of supply | – | |
| 80 | | **Quality of supply less capital contributions** | | 90 |
| 81 | | **6a(vii): Legislative and Regulatory** | | |
| 82 | | *Project or programme** | **($000)** | **($000)** |
| 83 | | Nil | – | |
| 84 | | – | – | |
| 85 | | – | – | |
| 86 | | – | – | |
| 87 | | – | – | |
| 88 | | ** include additional rows if needed* | | |
| 89 | | All other projects or programmes - legislative and regulatory | – | |
| 90 | | **Legislative and regulatory expenditure** | | – |
| 91 | *less* | Capital contributions funding legislative and regulatory | – | |
| 92 | | **Legislative and regulatory less capital contributions** | | – |
| 93 | | **6a(viii): Other Reliability, Safety and Environment** | | |
| 94 | | *Project or programme** | **($000)** | **($000)** |
| 95 | | WRR-KTA 110kV Stage 3 - Property | 1,651 | |
| 96 | | KOE Instal of Bus Tie CB, CTs and prot | 769 | |
| | | KWA T1 Transformer Protection Upgrade | 300 | |
| | | Kaikohe/Ngawha Protection Setting Review | 218 | |
| | | Replacing switches with Entecs | 155 | |
| | | Kerikeri CB Cable Connections | 141 | |
| | | DistributionTransformer data logger/MDI | 117 | |
| | | Taipa Generator Synchronising Project | 112 | |
| | | TPA 33kV Sub Transformer Monitoring | 111 | |
| | | NPL Alstom Protection Relays Replacement | 98 | |
| | | PUK CB and Tap Changer Control Upgrade | 96 | |
| | | Wiroa-KTA 110kV planning/design - Yr 2 | 77 | |
| | | WIKAIRE LINE 887 FERN FLAT ROAD | 76 | |
| | | Communications upgrades | 68 | |
| | | Fibre install - Waipapa to Wiroa | 56 | |
| 97 | | $50k or less | 103 | |
| 98 | | – | – | |
| 99 | | – | – | |
| 100 | | ** include additional rows if needed* | | |
| 101 | | All other projects or programmes - other reliability, safety and environment | – | |
| 102 | | **Other reliability, safety and environment expenditure** | | 4,148 |
| 103 | *less* | Capital contributions funding other reliability, safety and environment | – | |
| 104 | | **Other reliability, safety and environment less capital contributions** | | 4,148 |
| 105 | | | | |
| 106 | | **6a(ix): Non-Network Assets** | | |
| 107 | | **Routine expenditure** | | |
| 108 | | *Project or programme** | **($000)** | **($000)** |
| 109 | | Computer Hardware | 103 | |
| 110 | | L/Hold Buildings Fit | 37 | |
| 111 | | Plant & Equip (Equip) | 27 | |
| | | Plant & Equip (Furn) | 37 | |
| | | SCADA and Comms (Central Facilities / Communications Equipment | 36 | |
| 112 | | Software | 142 | |
| 113 | | Vehicles | 91 | |
| 114 | | ** include additional rows if needed* | | |
| 115 | | All other projects or programmes - routine expenditure | – | |
| 116 | | **Routine expenditure** | | 473 |

| | Company Name | Top Energy Ltd |
|---|---|---|
| | For Year Ended | 31 March 2017 |

## SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | | |
|---|---|---|---|---|
| *117* | **Atypical expenditure** | | | |
| *118* | *Project or programme** | | **($000)** | **($000)** |
| *119* | Nil | | – | |
| *120* | | – | – | |
| *121* | | – | – | |
| *122* | | – | – | |
| *123* | | – | – | |
| *124* | ** include additional rows if needed* | | | |
| *125* | All other projects or programmes - atypical expenditure | | – | |
| *126* | **Atypical expenditure** | | | – |
| *127* | | | | |
| *128* | **Expenditure on non-network assets** | | | 473 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.
EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| *sch ref* | | | |
|---|---|---|---|
| 7 | **6b(i): Operational Expenditure** | **($000)** | **($000)** |
| 8 | Service interruptions and emergencies | 1,635 | |
| 9 | Vegetation management | 1,762 | |
| 10 | Routine and corrective maintenance and inspection | 1,947 | |
| 11 | Asset replacement and renewal | 548 | |
| 12 | **Network opex** | | 5,892 |
| 13 | System operations and network support | 3,980 | |
| 14 | Business support | 4,353 | |
| 15 | **Non-network opex** | | 8,333 |
| 16 | | | |
| 17 | **Operational expenditure** | | 14,225 |
| 18 | **6b(ii): Subcomponents of Operational Expenditure (where known)** | | |
| 19 | Energy efficiency and demand side management, reduction of energy losses | | – |
| 20 | Direct billing* | | – |
| 21 | Research and development | | – |
| 22 | Insurance | | 330 |
| 23 | ** Direct billing expenditure by suppliers that directly bill the majority of their consumers* | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

# SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

*sch ref*

| sch ref | | Target ($000) [1] | Actual ($000) | % variance |
|---|---|---|---|---|
| 7 | **7(i): Revenue** | | | |
| 8 | Line charge revenue | 49,178 | 50,319 | 2% |

| sch ref | | Forecast ($000) [2] | Actual ($000) | % variance |
|---|---|---|---|---|
| 9 | **7(ii): Expenditure on Assets** | | | |
| 10 | Consumer connection | 1,480 | 1,260 | (15%) |
| 11 | System growth | 3,574 | 2,431 | (32%) |
| 12 | Asset replacement and renewal | 5,376 | 6,536 | 22% |
| 13 | Asset relocations | – | – | – |
| 14 | Reliability, safety and environment: | | | |
| 15 | Quality of supply | 4,077 | 90 | (98%) |
| 16 | Legislative and regulatory | – | – | – |
| 17 | Other reliability, safety and environment | – | 4,148 | – |
| 18 | **Total reliability, safety and environment** | 4,077 | 4,238 | 4% |
| 19 | **Expenditure on network assets** | 14,507 | 14,465 | (0%) |
| 20 | Expenditure on non-network assets | 255 | 473 | 86% |
| 21 | Expenditure on assets | 14,762 | 14,939 | 1% |
| 22 | **7(iii): Operational Expenditure** | | | |
| 23 | Service interruptions and emergencies | 1,200 | 1,635 | 36% |
| 24 | Vegetation management | 1,833 | 1,762 | (4%) |
| 25 | Routine and corrective maintenance and inspection | 1,765 | 1,947 | 10% |
| 26 | Asset replacement and renewal | 939 | 548 | (42%) |
| 27 | **Network opex** | 5,737 | 5,892 | 3% |
| 28 | System operations and network support | 4,508 | 3,980 | (12%) |
| 29 | Business support | 3,378 | 4,353 | 29% |
| 30 | **Non-network opex** | 7,886 | 8,333 | 6% |
| 31 | **Operational expenditure** | 13,623 | 14,225 | 4% |
| 32 | **7(iv): Subcomponents of Expenditure on Assets (where known)** | | | |
| 33 | Energy efficiency and demand side management, reduction of energy losses | – | – | – |
| 34 | Overhead to underground conversion | – | – | – |
| 35 | Research and development | – | – | – |
| 36 | | | | |
| 37 | **7(v): Subcomponents of Operational Expenditure (where known)** | | | |
| 38 | Energy efficiency and demand side management, reduction of energy losses | – | – | – |
| 39 | Direct billing | – | – | – |
| 40 | Research and development | – | – | – |
| 41 | Insurance | 202 | 330 | 63% |
| 42 | | | | |

43 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

44 *2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-Network Name* | |

## SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

*sch ref*

### 8(i): Billed Quantities by Price Component

| Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | Average no. of ICPs in disclosure year | Energy delivered to ICPs in disclosure year (MWh) |
|---|---|---|---|---|
| IND | Commercial | Non-standard | 3 | 57378 |
| TOU | Commercial | Standard | 56 | 35908 |
| GA | Commercial | Standard | 17 | 2719 |
| LR | Residential | Standard | 12888 | 57965 |
| SR | Residential | Standard | 13229 | 87562 |
| G | Commercial | Standard | 4846 | 70228 |
| CAP150 | Commercial | Standard | 75 | 8150 |
| STL (UM) | Unmetered | Standard | 253 | 1870 |
| LDG | Commercial | Non-standard | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| | | **Standard consumer totals** | 31,361 | 264,402 |
| | | **Non-standard consumer totals** | 4 | 57,378 |
| | | **Total for all consumers** | 31,365 | 321,780 |

*Add extra rows for additional consumer groups or price category codes as necessary*

**Billed quantities by price component**

| **Price component** | | Fixed | Variable | | | |
|---|---|---|---|---|---|---|
| **Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)** | | Days | kWh | | | |
| IND | | 57378 | 0 | | | |
| TOU | | 0 | 35908 | | | |
| GA | | 0 | 2719 | | | |
| LR | | 0 | 57965 | | | |
| SR | | 0 | 87562 | | | |
| G | | 0 | 70228 | | | |
| CAP150 | | 0 | 8150 | | | |
| STL (UM) | | 1870 | 0 | | | |
| LDG | | 0 | 0 | | | |
| 0 | | 0 | 0 | | | |
| **Standard consumer totals** | – | 1,870 | 262,533 | – | – | – |
| **Non-standard consumer totals** | – | 57,378 | – | – | – | – |
| **Total for all consumers** | – | 59,248 | 262,533 | – | – | – |

*Add extra columns for additional billed quantities by price component as necessary*

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-Network Name* | |

## SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

### 8(ii): Line Charge Revenues ($000) by Price Component

| Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | Total line charge revenue in disclosure year | Notional revenue foregone from posted discounts (if applicable) | Total distribution line charge revenue | Total transmission line charge revenue (if available) |
|---|---|---|---|---|---|---|
| IND | Commercial | Non-standard | $1,769 | 0 | 567 | 1202 |
| TOU | Commercial | Standard | $3,731 | 0 | 2795 | 937 |
| GA | Commercial | Standard | $401 | 0 | 301 | 101 |
| LR | Residential | Standard | $11,274 | 0 | 8444 | 2830 |
| SR | Residential | Standard | $16,676 | 0 | 12490 | 4186 |
| G | Commercial | Standard | $14,749 | 0 | 11047 | 3702 |
| CAP150 | Commercial | Standard | $1,286 | 0 | 963 | 323 |
| STL (UM) | Unmetered | Standard | $434 | 0 | 434 | 0 |
| LDG | Commercial | Non-standard | – | 0 | 0 | 0 |
| 0 | 0 | 0 | – | 0 | 0 | 0 |
| *Add extra rows for additional consumer groups or price category codes as necessary* | | | | | | |
| | | **Standard consumer totals** | $48,550 | – | $36,473 | $12,077 |
| | | **Non-standard consumer totals** | $1,769 | – | $567 | $1,202 |
| | | **Total for all consumers** | $50,319 | – | $37,041 | $13,279 |

**Line charge revenues ($000) by price component**

| **Price component** | 0 | Gross Income | Gross Income | 0 | Discount | Discount |
|---|---|---|---|---|---|---|
| **Rate (eg, $ per day, $ per kWh, etc.)** | 0 | $/Days | $/kWh | 0 | $/Days | $/kWh |
| IND | 0 | 1769 | 0 | 0 | 0 | 0 |
| TOU | 0 | 482 | 3250 | 0 | 0 | 0 |
| GA | 0 | 52 | 350 | 0 | 0 | 0 |
| LR | 0 | 706 | 10568 | 0 | 0 | 0 |
| SR | 0 | 1979 | 14696 | 0 | 0 | 0 |
| G | 0 | 707 | 14041 | 0 | 0 | 0 |
| CAP150 | 0 | 267 | 1018 | 0 | 0 | 0 |
| STL (UM) | 0 | 434 | 0 | 0 | 0 | 0 |
| LDG | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Standard consumer totals** | – | $4,627 | $43,923 | – | – | – |
| **Non-standard consumer totals** | – | $1,769 | – | – | – | – |
| **Total for all consumers** | – | $6,396 | $43,923 | – | – | – |

*Add extra columns for additional line charge revenues by price component as necessary*

**Check** **OK**

### 8(iii): Number of ICPs directly billed

| | |
|---|---|
| **Number of directly billed ICPs at year end** | 3 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

*sch ref*

| 8 | Voltage | Asset category | Asset class | Units | Items at start of year (quantity) | Items at end of year (quantity) | Net change | Data accuracy (1–4) |
|---|---|---|---|---|---|---|---|---|
| 9 | All | Overhead Line | Concrete poles / steel structure | No. | 34,537 | 34,810 | 273 | 3 |
| 10 | All | Overhead Line | Wood poles | No. | 1,880 | 1,644 | (236) | 3 |
| 11 | All | Overhead Line | Other pole types | No. | 2 | 4 | 2 | 3 |
| 12 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 270 | 301 | 31 | 3 |
| 13 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 56 | 56 | (0) | 4 |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 20 | 20 | (0) | 3 |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | – | – | – | 4 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | – | – | – | 4 |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | – | – | – | 4 |
| 18 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | – | – | – | 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | – | – | – | 4 |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | – | – | – | 4 |
| 21 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | – | – | – | 4 |
| 22 | HV | Subtransmission Cable | Subtransmission submarine cable | km | – | – | – | 4 |
| 23 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | 13 | 13 | – | 4 |
| 24 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | 2 | 2 | – | 4 |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | 4 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 7 | 7 | – | 4 |
| 27 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | 4 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 163 | 179 | 16 | 3 |
| 29 | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | 4 |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | 19 | 39 | 20 | 3 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 55 | 43 | (12) | 3 |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 85 | 96 | 11 | 3 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | – | – | – | 3 |
| 34 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 25 | 24 | (1) | 3 |
| 35 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 2,126 | 2,127 | 1 | 3 |
| 36 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | 4 |
| 37 | HV | Distribution Line | SWER conductor | km | 452 | 451 | (1) | 3 |
| 38 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 160 | 162 | 2 | 3 |
| 39 | HV | Distribution Cable | Distribution UG PILC | km | 32 | 32 | 0 | 3 |
| 40 | HV | Distribution Cable | Distribution Submarine Cable | km | 3 | 3 | (0) | 3 |
| 41 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 360 | 355 | (5) | 3 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | 4 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 1,279 | 1,288 | 9 | 3 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 32 | 14 | (18) | 3 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 172 | 181 | 9 | 3 |
| 46 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 5,152 | 5,166 | 14 | 3 |
| 47 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 824 | 834 | 10 | 3 |
| 48 | HV | Distribution Transformer | Voltage regulators | No. | 11 | 15 | 4 | 3 |
| 49 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 824 | 29 | (795) | 3 |
| 50 | LV | LV Line | LV OH Conductor | km | 221 | 222 | 1 | 3 |
| 51 | LV | LV Cable | LV UG Cable | km | 649 | 652 | 3 | 3 |
| 52 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 334 | 330 | (4) | 3 |
| 53 | LV | Connections | OH/UG consumer service connections | No. | 32,206 | 32,592 | 386 | 3 |
| 54 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 427 | 441 | 14 | 3 |
| 55 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 1 | 1 | – | 4 |
| 56 | All | Capacitor Banks | Capacitors including controls | No | 20 | 20 | – | 3 |
| 57 | All | Load Control | Centralised plant | Lot | 2 | 2 | – | 4 |
| 58 | All | Load Control | Relays | No | – | – | – | 1 |
| 59 | All | Civils | Cable Tunnels | km | – | – | – | 4 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

*sch ref*

| *8* | | **Disclosure Year (year ended)** | 31 March 2017 | | **Number of assets at disclosure year end by installation date** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *9* | **Voltage** | **Asset category** | **Asset class** | **Units** | **pre-1940** | **1940 –1949** | **1950 –1959** | **1960 –1969** | **1970 –1979** | **1980 –1989** | **1990 –1999** | **2000** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **No. with age unknown** | **Items at end of year (quantity)** | **No. with default dates** | **Data accuracy (1–4)** |
| *10* | All | Overhead Line | Concrete poles / steel structure | No. | 2 | 343 | 388 | 6,270 | 7,606 | 6,775 | 5,527 | 670 | 814 | 571 | 362 | 343 | 528 | 311 | 478 | 679 | 372 | 524 | 573 | 353 | 248 | 405 | 276 | 264 | 128 | – | 34,810 | – | 3 |
| *11* | All | Overhead Line | Wood poles | No. | – | 21 | 127 | 334 | 525 | 214 | 178 | 27 | 15 | 8 | 7 | 6 | 8 | 10 | 37 | 25 | 8 | 80 | – | 4 | 2 | 3 | 3 | 2 | – | – | 1,644 | – | 3 |
| *12* | All | Overhead Line | Other pole types | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | – | 2 | – | – | 4 | – | 3 |
| *13* | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | – | – | 5 | 21 | 107 | 73 | 24 | 0 | – | – | 0 | – | 1 | 1 | – | – | 2 | 2 | 27 | 21 | 1 | 4 | 12 | 0 | – | – | 301 | – | 3 |
| *14* | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | – | – | – | – | – | 56 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 56 | – | 3 |
| *15* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | 0 | – | 8 | 11 | – | – | – | – | 20 | – | 4 |
| *16* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *17* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *18* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *19* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *20* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *21* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *22* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *23* | HV | Subtransmission Cable | Subtransmission submarine cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *24* | HV | Zone substation Buildings | Zone substations up to 66kV | No. | – | – | – | 2 | 4 | 4 | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | 1 | – | 1 | – | – | – | 13 | – | 4 |
| *25* | HV | Zone substation Buildings | Zone substations 110kV+ | No. | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 4 |
| *26* | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *27* | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | – | – | – | 2 | – | 2 | – | – | – | – | – | – | – | – | – | – | – | 3 | – | – | – | – | – | – | – | – | 7 | – | 4 |
| *28* | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *29* | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | – | – | – | 14 | 6 | 22 | 3 | – | 5 | 3 | – | 2 | 5 | 3 | 3 | 2 | – | 5 | 3 | 1 | 36 | 31 | 5 | 30 | – | – | 179 | – | 3 |
| *30* | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *31* | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 6 | 25 | 8 | – | – | – | 39 | – | 3 |
| *32* | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | – | – | – | 2 | 1 | 11 | – | – | – | – | – | – | 3 | – | – | 4 | 3 | – | 3 | 5 | 1 | 4 | – | 6 | – | – | 43 | – | 3 |
| *33* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | – | – | – | 8 | 14 | 34 | – | – | 2 | – | – | – | – | – | – | 6 | 3 | 2 | 6 | – | 11 | – | 9 | – | 1 | – | 96 | – | 3 |
| *34* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 3 |
| *35* | HV | Zone Substation Transformer | Zone Substation Transformers | No. | – | – | – | 7 | 5 | 7 | – | – | – | – | – | – | – | – | – | 1 | – | – | 1 | – | 2 | – | – | 1 | – | – | 24 | – | 3 |
| *36* | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 2 | 54 | 116 | 410 | 493 | 360 | 301 | 96 | 61 | 6 | 11 | 26 | 33 | 18 | 13 | 26 | 9 | 12 | 25 | 19 | 6 | 16 | 8 | 6 | 0 | – | 2,127 | – | 3 |
| *37* | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *38* | HV | Distribution Line | SWER conductor | km | – | 84 | 77 | 106 | 44 | 46 | 33 | 6 | 1 | – | 0 | 6 | 9 | 3 | 12 | 5 | 4 | 1 | 1 | 0 | 1 | 7 | 4 | 1 | 1 | – | 451 | – | 3 |
| *39* | HV | Distribution Cable | Distribution UG XLPE or PVC | km | – | – | – | 0 | 1 | 2 | 13 | 26 | 4 | 2 | 8 | 11 | 18 | 11 | 9 | 17 | 3 | 4 | 9 | 8 | 8 | 2 | 3 | 1 | 0 | – | 162 | – | 3 |
| *40* | HV | Distribution Cable | Distribution UG PILC | km | – | – | – | 0 | 3 | 6 | 10 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | – | 0 | 0 | 0 | 0 | – | 0 | – | – | – | 32 | – | 3 |
| *41* | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | 1 | – | – | – | 1 | – | – | – | – | – | – | – | 3 | – | 3 |
| *42* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 2 | 4 | 5 | 4 | 4 | 1 | 9 | 4 | 2 | 1 | 3 | 5 | 2 | 2 | 16 | 70 | 112 | 28 | 46 | 6 | 2 | 8 | 9 | 9 | 1 | – | 355 | – | 3 |
| *43* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 3 |
| *44* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | – | 25 | 25 | 163 | 140 | 77 | 101 | 30 | 13 | 4 | 40 | 22 | 35 | 39 | 45 | 49 | 86 | 63 | 67 | 39 | 51 | 31 | 63 | 63 | 17 | – | 1,288 | – | 3 |
| *45* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | – | – | – | – | – | – | 4 | 3 | – | – | 2 | – | – | – | 1 | 1 | – | – | – | – | 1 | 2 | – | – | – | – | 14 | – | 3 |
| *46* | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | – | – | – | 1 | 1 | 5 | 6 | 7 | – | 2 | 11 | 11 | 24 | 22 | 13 | 18 | 1 | 5 | 16 | 14 | 9 | 2 | 10 | 3 | – | – | 181 | – | 3 |
| *47* | HV | Distribution Transformer | Pole Mounted Transformer | No. | 11 | 106 | 198 | 185 | 394 | 478 | 1,166 | 164 | 172 | 95 | 110 | 162 | 185 | 205 | 194 | 207 | 141 | 155 | 229 | 123 | 112 | 115 | 99 | 124 | 36 | – | 5,166 | – | 3 |
| *48* | HV | Distribution Transformer | Ground Mounted Transformer | No. | – | – | 1 | 6 | 28 | 33 | 131 | 61 | 31 | 24 | 50 | 54 | 78 | 67 | 39 | 61 | 21 | 22 | 34 | 21 | 15 | 21 | 22 | 11 | 3 | – | 834 | – | 3 |
| *49* | HV | Distribution Transformer | Voltage regulators | No. | – | – | – | – | – | – | 1 | – | – | 1 | – | – | 2 | 1 | 1 | 2 | – | 1 | – | – | – | 1 | 4 | 1 | – | – | 15 | – | 3 |
| *50* | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | 3 | 4 | 10 | 6 | 1 | – | 1 | – | 2 | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | 29 | – | 3 |
| *51* | LV | LV Line | LV OH Conductor | km | – | 3 | 10 | 40 | 57 | 44 | 41 | 5 | 4 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | – | 222 | – | 3 |
| *52* | LV | LV Cable | LV UG Cable | km | – | – | – | 35 | 98 | 111 | 154 | 32 | 16 | 6 | 23 | 36 | 34 | 31 | 19 | 18 | 7 | 8 | 4 | 3 | 3 | 4 | 6 | 3 | 1 | – | 652 | – | 3 |
| *53* | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | – | – | 1 | 21 | 56 | 68 | 70 | 19 | 5 | 3 | 12 | 17 | 16 | 15 | 11 | 10 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | – | – | 330 | – | 3 |
| *54* | LV | Connections | OH/UG consumer service connections | No. | – | – | – | – | – | – | – | 500 | 1,200 | 534 | 810 | 30 | – | 1,372 | – | 1,155 | 612 | 240 | 372 | 177 | 215 | 219 | 236 | 229 | 691 | 24,000 | 32,592 | – | 2 |
| *55* | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | – | – | 34 | 4 | 78 | 10 | 1 | 2 | – | 4 | – | – | 8 | – | 3 | 86 | 8 | 20 | 2 | 7 | 30 | 48 | 30 | 41 | 25 | – | 441 | – | 4 |
| *56* | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 4 |
| *57* | All | Capacitor Banks | Capacitors including controls | No | – | – | – | 4 | 2 | 2 | 9 | 1 | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | 20 | – | 3 |
| *58* | All | Load Control | Centralised plant | Lot | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | – | – | 2 | – | 4 |
| *59* | All | Load Control | Relays | No | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |
| *60* | All | Civils | Cable Tunnels | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

| *sch ref* | | | | |
|---|---|---|---|---|
| *9* | | | | |
| *10* | **Circuit length by operating voltage (at year end)** | **Overhead (km)** | **Underground (km)** | **Total circuit length (km)** |
| *11* | > 66kV | 56 | – | 56 |
| *12* | 50kV & 66kV | – | – | – |
| *13* | 33kV | 301 | 20 | 321 |
| *14* | SWER (all SWER voltages) | 451 | 2 | 453 |
| *15* | 22kV (other than SWER) | 22 | 10 | 32 |
| *16* | 6.6kV to 11kV (inclusive—other than SWER) | 2,105 | 186 | 2,291 |
| *17* | Low voltage (< 1kV) | 223 | 655 | 878 |
| *18* | **Total circuit length (for supply)** | 3,158 | 872 | 4,030 |
| *19* | | | | |
| *20* | Dedicated street lighting circuit length (km) | 10 | 320 | 330 |
| *21* | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | | 788 |
| *22* | | | | |

| *sch ref* | | | |
|---|---|---|---|
| *23* | **Overhead circuit length by terrain (at year end)** | **Circuit length (km)** | **(% of total overhead length)** |
| *24* | Urban | 172 | 5% |
| *25* | Rural | 2,053 | 65% |
| *26* | Remote only | 5 | 0% |
| *27* | Rugged only | 648 | 21% |
| *28* | Remote and rugged | – | – |
| *29* | Unallocated overhead lines | 280 | 9% |
| *30* | **Total overhead length** | 3,158 | 100% |
| *31* | | | |
| *32* | | **Circuit length (km)** | **(% of total circuit length)** |
| *33* | Length of circuit within 10km of coastline or geothermal areas (where known) | 3,749 | 93% |
| *34* | | **Circuit length (km)** | **(% of total overhead length)** |
| *35* | Overhead circuit requiring vegetation management | 305 | 10% |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |

## SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

*sch ref*

| sch ref | Location * | Number of ICPs served | Line charge revenue ($000) |
|---|---|---|---|
| *8* | | | |
| *9* | Kerikeri Retirement Centre (Simply Energy) | 59 | 71 |
| *10* | | | |
| *11* | | | |
| *12* | | | |
| *13* | | | |
| *14* | | | |
| *15* | | | |
| *16* | | | |
| *17* | | | |
| *18* | | | |
| *19* | | | |
| *20* | | | |
| *21* | | | |
| *22* | | | |
| *23* | | | |
| *24* | | | |
| *25* | | | |

*26* ** Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network*

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

| *sch ref* | | | | |
|---|---|---|---|---|
| *8* | | **9e(i): Consumer Connections** | | |
| *9* | | *Number of ICPs connected in year by consumer type* | | |
| *10* | | *Consumer types defined by EDB** | **Number of connections (ICPs)** | |
| *11* | | General Advance | 20 | |
| *12* | | Residential Low User | 139 | |
| *13* | | Residential Standard | 105 | |
| *14* | | General Commercial | 57 | |
| | | Medium Commercial | 3 | |
| *15* | | Streetlights and Unmetered | 7 | |
| *16* | | ** include additional rows if needed* | | |
| *17* | | **Connections total** | 331 | |
| *18* | | | | |
| *19* | | **Distributed generation** | | |
| *20* | | Number of connections made in year | 167 | **connections** |
| *21* | | Capacity of distributed generation installed in year | 0.64762 | **MVA** |
| *22* | | **9e(ii): System Demand** | | |
| *23* | | | | |
| *24* | | | | |
| *25* | | **Maximum coincident system demand** | **Demand at time of maximum coincident demand (MW)** | |
| *26* | | GXP demand | 44.2 | |
| *27* | *plus* | Distributed generation output at HV and above | 24.5 | |
| *28* | | **Maximum coincident system demand** | 68.7 | |
| *29* | *less* | Net transfers to (from) other EDBs at HV and above | 0 | |
| *30* | | **Demand on system for supply to consumers' connection points** | 68.7 | |
| *31* | | **Electricity volumes carried** | **Energy (GWh)** | |
| *32* | | Electricity supplied from GXPs | 152 | |
| *33* | *less* | Electricity exports to GXPs | 0 | |
| *34* | *plus* | Electricity supplied from distributed generation | 199 | |
| *35* | *less* | Net electricity supplied to (from) other EDBs | 0 | |
| *36* | | **Electricity entering system for supply to consumers' connection points** | 351 | |
| *37* | *less* | Total energy delivered to ICPs | 322 | |
| *38* | | **Electricity losses (loss ratio)** | 29 | 8.3% |
| *39* | | | | |
| *40* | | **Load factor** | 0.6 | |
| *41* | | **9e(iii): Transformer Capacity** | | |
| *42* | | | **(MVA)** | |
| *43* | | Distribution transformer capacity (EDB owned) | 279 | |
| *44* | | Distribution transformer capacity (Non-EDB owned, estimated) | 42 | |
| *45* | | **Total distribution transformer capacity** | 321 | |
| *46* | | | | |
| *47* | | **Zone substation transformer capacity** | 408 | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

*sch ref*

| sch ref | | | |
|---|---|---|---|
| 8 | **10(i): Interruptions** | | |
| 9 | **Interruptions by class** | **Number of interruptions** | |
| 10 | Class A (planned interruptions by Transpower) | – | |
| 11 | Class B (planned interruptions on the network) | 207 | |
| 12 | Class C (unplanned interruptions on the network) | 409 | |
| 13 | Class D (unplanned interruptions by Transpower) | 2 | |
| 14 | Class E (unplanned interruptions of EDB owned generation) | – | |
| 15 | Class F (unplanned interruptions of generation owned by others) | – | |
| 16 | Class G (unplanned interruptions caused by another disclosing entity) | – | |
| 17 | Class H (planned interruptions caused by another disclosing entity) | – | |
| 18 | Class I (interruptions caused by parties not included above) | – | |
| 19 | **Total** | 618 | |
| 20 | | | |
| 21 | **Interruption restoration** | **≤3Hrs** | **>3hrs** |
| 22 | Class C interruptions restored within | 204 | 205 |
| 23 | | | |
| 24 | **SAIFI and SAIDI by class** | **SAIFI** | **SAIDI** |
| 25 | Class A (planned interruptions by Transpower) | – | – |
| 26 | Class B (planned interruptions on the network) | 0.28 | 42.85 |
| 27 | Class C (unplanned interruptions on the network) | 5.37 | 578.50 |
| 28 | Class D (unplanned interruptions by Transpower) | 1.95 | 729.10 |
| 29 | Class E (unplanned interruptions of EDB owned generation) | – | – |
| 30 | Class F (unplanned interruptions of generation owned by others) | – | – |
| 31 | Class G (unplanned interruptions caused by another disclosing entity) | – | – |
| 32 | Class H (planned interruptions caused by another disclosing entity) | – | – |
| 33 | Class I (interruptions caused by parties not included above) | – | – |
| 34 | **Total** | 7.60 | 1,350.5 |
| 35 | | | |
| 36 | **Normalised SAIFI and SAIDI** | **Normalised SAIFI** | **Normalised SAIDI** |
| 37 | Classes B & C (interruptions on the network) | 5.40 | 465.41 |
| 38 | | | |
| 39 | **Quality path normalised reliability limit** | **SAIFI reliability limit** | **SAIDI reliability limit** |
| 40 | SAIFI and SAIDI limits applicable to disclosure year* | 6.25 | 516.68 |
| 41 | ** not applicable to exempt EDBs* | | |

| | |
|---|---|
| *Company Name* | **Top Energy Ltd** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | |

## SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

42 ### 10(ii): Class C Interruptions and Duration by Cause

43

| | Cause | SAIFI | SAIDI |
|---|---|---|---|
| 44 | | | |
| 45 | Lightning | 0.10 | 7.72 |
| 46 | Vegetation | 0.74 | 94.63 |
| 47 | Adverse weather | 0.37 | 110.04 |
| 48 | Adverse environment | 0.01 | 1.57 |
| 49 | Third party interference | 0.46 | 50.42 |
| 50 | Wildlife | 1.14 | 143.91 |
| 51 | Human error | 0.40 | 6.69 |
| 52 | Defective equipment | 1.32 | 121.03 |
| 53 | Cause unknown | 0.82 | 42.50 |

54

55 ### 10(iii): Class B Interruptions and Duration by Main Equipment Involved

56

| | Main equipment involved | SAIFI | SAIDI |
|---|---|---|---|
| 57 | | | |
| 58 | Subtransmission lines | – | – |
| 59 | Subtransmission cables | – | – |
| 60 | Subtransmission other | – | – |
| 61 | Distribution lines (excluding LV) | 0.19 | 33.40 |
| 62 | Distribution cables (excluding LV) | 0.09 | 9.45 |
| 63 | Distribution other (excluding LV) | – | – |

64 ### 10(iv): Class C Interruptions and Duration by Main Equipment Involved

65

| | Main equipment involved | SAIFI | SAIDI |
|---|---|---|---|
| 66 | | | |
| 67 | Subtransmission lines | 1.76 | 197.91 |
| 68 | Subtransmission cables | 0.04 | 0.09 |
| 69 | Subtransmission other | – | – |
| 70 | Distribution lines (excluding LV) | 3.37 | 373.36 |
| 71 | Distribution cables (excluding LV) | 0.20 | 7.15 |
| 72 | Distribution other (excluding LV) | – | – |

73 ### 10(v): Fault Rate

| | Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|---|---|---|---|---|
| 74 | | | | |
| 75 | Subtransmission lines | 12 | 357 | 3.36 |
| 76 | Subtransmission cables | 1 | 20 | 4.95 |
| 77 | Subtransmission other | – | | |
| 78 | Distribution lines (excluding LV) | 381 | 2,578 | 14.78 |
| 79 | Distribution cables (excluding LV) | 15 | 197 | 7.61 |
| 80 | Distribution other (excluding LV) | – | | |
| 81 | **Total** | 409 | | |

| | |
|---|---|
| Company Name | Top Energy Ltd |
| For Year Ended | 31 March 2017 |

## Schedule 14 Mandatory Explanatory Notes

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).

2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.

3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

*Return on Investment (Schedule 2)*

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

| **Box 1: Explanatory comment on return on investment** |
|---|
| There have been no reclassifications in 2017. The monthly ROI for the first/last 3 months are greater than 40% of annual cashflow. |

*Regulatory Profit (Schedule 3)*

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-

   5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3

   5.2 information on reclassified items in accordance with subclause 2.7.1(2).

| **Box 2: Explanatory comment on regulatory profit.** |
|---|
| A loss on disposal of $116k and other income which consists of reimbursement of fault expenses received from external parties $84.2k, Transpower loss and constraints payments $347.3k, and reimbursement by Ngawha Generation Ltd of $64.1k for Network injection charges and connection charges.<br><br>The Information disclosure 2017, discretionary discount is not included in Line revenue, instead it is included on Schedule 5a as a tax deduction only.<br><br>The Information disclosure 2016, discretionary discount of $5122k was included as revenue and has been recalculated in 2017 as a tax deduction only. |

*Merger and acquisition expenses (3(iv) of Schedule 3)*

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

   6.1 information on reclassified items in accordance with subclause 2.7.1(2)

   6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

| **Box 3: Explanatory comment on merger and acquisition expenditure** |
|---|
| Not applicable |

*Value of the Regulatory Asset Base (Schedule 4)*

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

| **Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)** |
|---|
| There has been no change to the RAB roll forward |

*Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)*

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-

   8.1 Income not included in regulatory profit / (loss) before tax but taxable;

   8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;

   8.3 Income included in regulatory profit / (loss) before tax but not taxable;

   8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

| **Box 5: Regulatory tax allowance: permanent differences** |
| --- |
| Line 11 – The total comprises disallowed entertainment expenses ($14k) and disallowed legal expenses ($2k). These items fall within category 8.2 above. |

*Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)*

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

| **Box 6: Tax effect of other temporary differences (current disclosure year)** |
| --- |
| Line 66 - The total comprises timing differences arising from the movement in payroll accruals between the beginning and end of the year to 31 March 2017 ($-106k), multiplied by the tax rate of 28%. |

*Related party transactions: disclosure of related party transactions (Schedule 5b)*

10. In the box below, provide descriptions of related party transactions beyond those disclosed on Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.6(1)(b).

| **Box 7: Related party transactions** |
| --- |
| Line 23 – Avoided Transmission Charges are paid by TEN in respect of embedded generation provided by Ngawha Generation Ltd (NGL). These charges are based on the Transpower market rate.<br><br>Line 24 – The Ngawha Connection Agreement charge is levied on NGL and is calculated based on the dedicated network asset value multiplied by the vanilla WACC.<br><br>Line 25 – The Injection charges levied on NGL are calculated based on the Transpower market rate.<br><br>Line 26 – Asset construction services are provided by Top Energy Contracting Services (TECS), a division of Top Energy Ltd (TEL). Services are provided as contracted by TEN and are charged on a cost recovery basis.<br><br>Line 27 – Asset maintenance services are also provided to TEN by TECS in respect of the system fixed asset. Services are provided as contracted by TEN and are charged at cost. |

*Cost allocation (Schedule 5d)*

11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 8: Cost allocation**
No changes to methodology have been made to cost allocations during the period.

*Asset allocation (Schedule 5e)*

12. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 9: Commentary on asset allocation**
There are no allocations due to using ACAM.

*Capital Expenditure for the Disclosure Year (Schedule 6a)*

13. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-

    13.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;

    13.2 information on reclassified items in accordance with subclause 2.7.1(2),

**Box 10: Explanation of capital expenditure for the disclosure year**
The Top Energy Asset Management Plan identifies a program of work consisting of a set of defined projects which are to be undertaken in any financial year. These projects are the basis on which the year's disclosed CAPEX expenditure is based. All projects are identified by the asset classification (transmission, distribution, substations etc) and type of work (system growth, relocation, replacement etc).

For non-network assets, assets are grouped into the respective asset category.

The materiality threshold has not been changed and is $50k

No information has been reclassified.

*Operational Expenditure for the Disclosure Year (Schedule 6b)*

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

    14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;

    14.2 Information on reclassified items in accordance with subclause 2.7.1(2);

14.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

| **Box 11: Explanation of operational expenditure for the disclosure year** |
| --- |
| Top Energy reports all Fault and Emergency asset replacement as CAPEX under asset replacement. Only the activities; of locating, looking for, finding a fault or a defected item of equipment and repair of that equipment are reported as OPEX.<br><br>The system operations and Business support were greater than forecast due to increased costs.<br><br>No items were re-classified in the Disclosure Year<br><br>No atypical operational expenditure was incurred. |

*Variance between forecast and actual expenditure (Schedule 7)*

15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

| **Box 12: Explanatory comment on variance in actual to forecast expenditure** |
| --- |
| Project programming necessitated the shift of some project work forward and others backward from FYE 2017 to FYE 2018 and vice versa. This change of project mix created some additional variance between project categories and the actual CAPEX spend for the year**.** Variances to system growth and asset replacement and renewal categories are due to project timelines from carrying projects over from the preceding financial year. The Safety and Environment underspend are due to projects from Safety and Environment being brought forward to FYE 2018. The projects themselves and associated costs did not change.<br><br>Overall network Opex was slightly over target however service interruptions and emergencies spend was significantly impacted by several events during the year. In May 2016 and March 2017, severe weather events occurred, the latter caused by Cyclone Debbie crossing the region.<br><br>Non Network Opex values for Target 2017 were obtained from the AMP2016 with no reclassifications. The split of costs varies between System operations and Business support however overall the variance is minimal. |

*Information relating to revenues and quantities for the disclosure year*

16. In the box below provide-

16.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and

16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

**Box 13: Explanatory comment relating to revenue for the disclosure year**

Price structure categories are Industrial, Commercial and Residential, which has been grouped as low user or standard. Changes made to the price category structure from 1.4.2016 have been used in schedule 8.

Continued work towards closing CAP150, these being discontinued as meters are being replaced.

The forecast revenue is $49,178k which was 2 % less than actual $50,319k. A discretionary discount was paid out in October 2016 for $5,191k and does not make up part of the line revenue.

*Network Reliability for the Disclosure Year (Schedule 10)*

17. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

**Box 14: Commentary on network reliability for the disclosure year**

There has been no change to the methodology used to acquire and record customer outages for the 2017 Information Disclosure.

Quality performance was within the regulatory targets for SAIDI and SAIFI. There were two Major Event Days resulting from a storm in May and a 33kV bus protection failure in September.

33kV sub-transmission ring circuits have been completed as part of our Network investment programme to provide a more reliable supply to many of our zone substations. This has already reduced the number of 33kV sub-transmission faults that would have previously caused an outage for customers connected to the affected substations.

*Insurance cover*

18. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

18.1 The EDB's approaches and practices with regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;

18.2 In respect of any self-insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

| **Box 15: Explanation of insurance cover** |
| --- |
| Insurance is obtained for assets of a material nature that are contained in one location. For example, substation assets are insured; however individual poles and conductor/cable across the network are not. Inventory and critical spares are also insured due to common storage locations. Insurance levels are approx. $98million.<br><br>A major event that would affect assets that are self-insured (poles and conductor/cables) would require additional debt facilities to be obtained. There is no reinsurance. |

*Amendments to previously disclosed information*

19. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

19.1 a description of each error; and

19.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

**Box 16: Disclosure of amendment to previously disclosed information**

The Discretionary Discount ($5122K) treatment has been amended in the 2016 Information Disclosure, from a deduction from revenue on schedule 8 to a tax deduction on schedule 5a as required by the regulations. The changes are highlighted in brown.

The 2016 Schedules effected are;

**(i) Schedule 8: Gross Network Line Revenue**

Has increased to $46,887.4k from $41,765k.

Originally published 2016 Price component;

| Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | Total line charge revenue in disclosure year | Notional revenue foregone from posted | Total distribution line charge revenue | Total transmission line charge revenue (if available) | Line charge revenues ($000) by price component | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Gross Income $/Days | Gross Income $/kWh | | Discount $/Days | Discount $/kWh |
| IND | industrial | Non-standard | 1,739 | 0 | 839 | 900 | | 1,749 | 0 | | -10 | 0 |
| TOU | commercial | Standard | 3,613 | 0 | 2,649 | 964 | | 605 | 3,089 | | -12 | -69 |
| CAP150 | commercial | Standard | 2,030 | 0 | 1,482 | 548 | | 403 | 1,698 | | -26 | -45 |
| DAY | residential | Standard | 1,816 | 0 | 1,302 | 514 | | 50 | 1,919 | | -44 | -109 |
| FC | residential | Standard | 354 | 0 | 261 | 93 | | 0 | 354 | | 0 | 0 |
| NGT | residential | Standard | 143 | 0 | 105 | 38 | | 0 | 143 | | 0 | 0 |
| PC | residential | Standard | 17,832 | 0 | 12,243 | 5,589 | | 1,200 | 20,214 | | -1,044 | -2,538 |
| UC | residential | Standard | 13,816 | 0 | 9,891 | 3,925 | | 453 | 14,587 | | -386 | -838 |
| STL (UM) | Unmetered | Standard | 422 | 0 | 421.92 | 0.00 | | 422 | 0 | | 0 | 0 |
| | | | 0.000 | | | | | 0.000 | 0 | | 0 | 0 |
| *Add extra rows for additional consumer groups or price category codes as necessary* | | | | | | | | | | | | |
| Standard consumer totals | | | 40,026 | 0 | 28,355 | 11,671 | 0 | 3,132 | 42,005 | 0 | -1,512 | -3,599 |
| Non-standard consumer totals | | | 1,739 | 0 | 839 | 900 | 0 | 1,749 | 0 | 0 | -10 | 0 |
| Total for all consumers | | | 41,765 | 0 | 29,194 | 12,571 | 0 | 4,882 | 42,005 | 0 | -1,522 | -3,599 |

Revised schedule 8 2016 Price component;

| Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | Total line charge revenue in disclosure year | Notional revenue foregone from posted | Total distribution line charge revenue | Total transmission line charge revenue (if available) | Line charge revenues ($000) by price component | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Gross Income $/Days | Gross Income $/kWh | | Discount $/Days | Discount $/kWh |
| IND | industrial | Non-standard | 1,749 | 0 | 850 | 900 | | 1,749 | 0 | | 0 | 0 |
| TOU | commercial | Standard | 3,694 | 0 | 2,730 | 964 | | 605 | 3,089 | | 0 | 0 |
| CAP150 | commercial | Standard | 2,101 | 0 | 1,553 | 548 | | 403 | 1,698 | | 0 | 0 |
| DAY | residential | Standard | 1,970 | 0 | 1,456 | 514 | | 50 | 1,920 | | 0 | 0 |
| FC | residential | Standard | 354 | 0 | 261 | 93 | | 0 | 354 | | 0 | 0 |
| NGT | residential | Standard | 143 | 0 | 105 | 38 | | 0 | 143 | | 0 | 0 |
| PC | residential | Standard | 21,414 | 0 | 15,825 | 5,589 | | 1,200 | 20,214 | | 0 | 0 |
| UC | residential | Standard | 15,040 | 0 | 11,115 | 3,925 | | 453 | 14,587 | | 0 | 0 |
| STL (UM) | Unmetered | Standard | 422 | 0 | 422 | 0 | | 422 | 0 | | 0 | 0 |
| | | | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 |
| *Add extra rows for additional consumer groups or price category codes as necessary* | | | | | | | | | | | | |
| Standard consumer totals | | | 45,138 | 0 | 33,467 | 11,671 | 0 | 3,133 | 42,005 | 0 | 0 | 0 |
| Non-standard consumer totals | | | 1,749 | 0 | 849 | 900 | 0 | 1,749 | 0 | 0 | 0 | 0 |
| Total for all consumers | | | 46,887 | 0 | 34,316 | 12,571 | 0 | 4,882 | 42,005 | 0 | 0 | 0 |

## (ii) Schedule 7 (i) Forecast compared to Actual

The target revenue was 10 % under and has been revised to 1 % over target.

Originally published 2016 Target v Actual;

| 7(i): Revenue | Target ($000) [1] | Actual ($000) | % variance |
|---|---|---|---|
| Line charge revenue | 46,632 | 41,765 | (10%) |

Revised schedule 7. 2016 Target v Actual;

| 7(i): Revenue | Target ($000) [1] | Actual ($000) | % variance |
|---|---|---|---|
| Line charge revenue | 46,632 | 46,887 | 1% |

## (iii) Schedule 5a (i) Tax Allowance

Regulatory taxable income remains at $11,183k with a change in profit before tax and the inclusion of the discretionary discount as a deduction.

Originally published 5a Tax;

| 5a(i): Regulatory Tax Allowance | | | | ($000) |
|---|---|---|---|---|
| | **Regulatory profit / (loss) before tax** | | | 12,806 |
| *plus* | Income not included in regulatory profit / (loss) before tax but taxable | – | * | |
| | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | 9 | * | |
| | Amortisation of initial differences in asset values | 3,399 | | |
| | Amortisation of revaluations | 1,013 | | |
| | | | | 4,421 |
| *less* | Total revaluations | 1,268 | | |
| | Income included in regulatory profit / (loss) before tax but not taxable | – | * | |
| | Discretionary discounts and customer rebates | – | | |
| | Expenditure or loss deductible but not in regulatory profit / (loss) before tax | – | * | |
| | Notional deductible interest | 4,775 | | |
| | | | | 6,043 |
| | **Regulatory taxable income** | | | 11,183 |
| *less* | Utilised tax losses | – | | |
| | Regulatory net taxable income | | | 11,183 |
| | Corporate tax rate (%) | 28% | | |
| | **Regulatory tax allowance** | | | 3,131 |

Revised 2016 schedule 5a Tax;

**5a(i): Regulatory Tax Allowance** ($000)

| | | | | |
|---|---|---|---|---|
| | **Regulatory profit / (loss) before tax** | | | 17,928 |
| *plus* | Income not included in regulatory profit / (loss) before tax but taxable | – | * | |
| | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | 9 | * | |
| | Amortisation of initial differences in asset values | 3,399 | | |
| | Amortisation of revaluations | 1,013 | | |
| | | | | 4,421 |
| *less* | Total revaluations | 1,268 | | |
| | Income included in regulatory profit / (loss) before tax but not taxable | – | * | |
| | Discretionary discounts and customer rebates | 5,122 | | |
| | Expenditure or loss deductible but not in regulatory profit / (loss) before tax | – | * | |
| | Notional deductible interest | 4,775 | | |
| | | | | 11,165 |
| | **Regulatory taxable income** | | | 11,183 |
| *less* | Utilised tax losses | – | | |
| | Regulatory net taxable income | | | 11,183 |
| | Corporate tax rate (%) | 28% | | |
| | **Regulatory tax allowance** | | | 3,131 |

## (iv) Schedule 3 (i) Profit

An increase in Regulatory Profit from $12,806 to $17,928 due to the increase in Line charge revenue.

Originally published 3(i) Profit;

**3(i): Regulatory Profit** ($000)

| | | |
|---|---|---|
| | **Income** | |
| | Line charge revenue | 41,765 |
| *plus* | Gains / (losses) on asset disposals | 6 |
| *plus* | Other regulated income (other than gains / (losses) on asset disposals) | 637 |
| | **Total regulatory income** | 42,409 |
| | **Expenses** | |
| *less* | Operational expenditure | 14,445 |
| *less* | Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,001 |
| | **Operating surplus / (deficit)** | 19,962 |
| *less* | Total depreciation | 8,425 |
| *plus* | Total revaluations | 1,268 |
| | **Regulatory profit / (loss) before tax** | 12,806 |
| *less* | Term credit spread differential allowance | – |
| *less* | Regulatory tax allowance | 3,131 |
| | **Regulatory profit/(loss) including financial incentives and wash-ups** | 9,674 |

Revised 2016 schedule 3(i) Profit;

### 3(i): Regulatory Profit

| | | ($000) |
|---|---|---|
| | **Income** | |
| | Line charge revenue | 46,887 |
| *plus* | Gains / (losses) on asset disposals | 6 |
| *plus* | Other regulated income (other than gains / (losses) on asset disposals) | 637 |
| | **Total regulatory income** | 47,531 |
| | **Expenses** | |
| *less* | Operational expenditure | 14,445 |
| *less* | Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,001 |
| | **Operating surplus / (deficit)** | 25,084 |
| *less* | Total depreciation | 8,425 |
| *plus* | Total revaluations | 1,268 |
| | **Regulatory profit / (loss) before tax** | 17,928 |
| *less* | Term credit spread differential allowance | – |
| *less* | Regulatory tax allowance | 3,131 |
| | **Regulatory profit/(loss) including financial incentives and wash-ups** | 14,796 |

## (v). Schedule 2 ROI

The resulting change to the 2016 ROI on schedule 2:
-Comparable to a post-tax WACC has increased from 2.14% to 4.90%
-Comparable to a vanilla WACC has increased from 3.11% to 6.09%

Originally published 2016 schedule 2 ROI;

| 2(i): Return on Investment | CY-2<br>31 Mar 14<br>% | CY-1<br>31 Mar 15<br>% | Current Year CY<br>31 Mar 16<br>% |
|---|---|---|---|
| ROI – comparable to a post tax WACC | | | |
| Reflecting all revenue earned | 4.42% | 2.68% | 3.88% |
| Excluding revenue earned from financial incentives | 3.75% | 2.01% | 3.19% |
| Excluding revenue earned from financial incentives and wash-ups | 3.75% | 2.01% | 2.46% |
| **Mid-point estimate of post tax WACC** | 5.43% | 6.10% | 5.37% |
| 25th percentile estimate | 4.71% | 5.39% | 4.66% |
| 75th percentile estimate | 6.14% | 6.82% | 6.09% |
| ROI – comparable to a vanilla WACC | | | |
| Reflecting all revenue earned | 5.10% | 3.47% | 4.53% |
| Excluding revenue earned from financial incentives | 4.43% | 2.79% | 3.84% |
| Excluding revenue earned from financial incentives and wash-ups | 4.43% | 2.79% | 3.11% |
| **WACC rate used to set regulatory price path** | 8.77% | 8.77% | 7.19% |
| **Mid-point estimate of vanilla WACC** | 6.11% | 6.89% | 6.02% |
| 25th percentile estimate | 5.39% | 6.17% | 5.30% |
| 75th percentile estimate | 6.83% | 7.60% | 6.74% |

| 2(ii): Information Supporting the ROI | | | ($000) | |
|---|---|---|---|---|
| | Total opening RAB value | 216,722 | | |
| *plus* | Opening deferred tax | (5,077) | | |
| **Opening RIV** | | | 211,645 | |
| **Line charge revenue** | | | 41,765 | |
| | Expenses cash outflow | 22,446 | | |
| *add* | Assets commissioned | 15,017 | | |
| *less* | Asset disposals | 31 | | |
| *add* | Tax payments | 1,398 | | |
| *less* | Other regulated income | 643 | | |
| **Mid-year net cash outflows** | | | 38,187 | |
| **Term credit spread differential allowance** | | | – | |
| | Total closing RAB value | 224,551 | | |
| *less* | Adjustment resulting from asset allocation | – | | |
| *less* | Lost and found assets adjustment | – | | |
| *plus* | Closing deferred tax | (6,810) | | |
| **Closing RIV** | | | 217,741 | |
| **ROI – comparable to a vanilla WACC** | | | | 4.53% |
| | Leverage (%) | | | 44% |
| | Cost of debt assumption (%) | | | 5.26% |
| | Corporate tax rate (%) | | | 28% |
| **ROI – comparable to a post tax WACC** | | | | 3.88% |

## Schedule 2 original continued

**Opening RIV** 211,645

| | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated | Monthly net cash |
|---|---|---|---|---|---|---|
| April | 3,725 | 1,727 | 71 | – | 39 | 1,758 |
| May | 3,926 | 1,727 | 737 | – | 39 | 2,425 |
| June | 3,890 | 1,812 | 802 | – | 59 | 2,555 |
| July | 4,324 | 2,012 | 497 | 2 | 39 | 2,468 |
| August | 4,046 | 1,761 | 705 | 7 | 40 | 2,420 |
| September | 1,485 | 1,895 | 1,024 | 1 | 101 | 2,817 |
| October | 1,463 | 1,777 | 41 | 4 | 40 | 1,774 |
| November | 3,973 | 2,158 | 1,353 | 9 | 72 | 3,429 |
| December | 3,868 | 1,824 | 33 | – | 39 | 1,818 |
| January | 3,620 | 1,714 | 2,604 | – | 71 | 4,247 |
| February | 3,572 | 1,833 | 1,999 | 3 | 45 | 3,784 |
| March | 3,873 | 2,207 | 5,151 | 5 | 57 | 7,295 |
| **Total** | 41,765 | 22,446 | 15,017 | 31 | 643 | 36,788 |

| | |
|---|---|
| **Tax payments** | 1,398 |
| **Term credit spread differential allowance** | – |
| **Closing RIV** | 217,741 |
| **Monthly ROI – comparable to a vanilla WACC** | 4.60% |
| **Monthly ROI – comparable to a post tax WACC** | 3.95% |

### 2(iv): Year-End ROI Rates for Comparison Purposes

| | |
|---|---|
| **Year-end ROI – comparable to a vanilla WACC** | 2.52% |
| **Year-end ROI – comparable to a post tax WACC** | 1.87% |

**these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on*

### 2(v): Financial Incentives and Wash-Ups

| | | |
|---|---|---|
| Net recoverable costs allowed under incremental rolling incentive scheme | – | |
| Purchased assets – avoided transmission charge | 2,018 | |
| Energy efficiency and demand incentive allowance | | |
| Quality incentive adjustment | | |
| Other financial incentives | | |
| **Financial incentives** | | 2,018 |
| **Impact of financial incentives on ROI** | | 0.69% |
| Input methodology claw-back | 1,554 | |
| Recoverable customised price-quality path costs | | |
| Catastrophic event allowance | | |
| Capex wash-up adjustment | | |
| Transmission asset wash-up adjustment | | |
| 2013-2015 NPV wash-up allowance | 578 | |
| Reconsideration event allowance | | |
| Other wash-ups | | |
| **Wash-up costs** | | 2,132 |
| **Impact of wash-up costs on ROI** | | 0.72% |

Revised 2016 schedule 2 ROI;

## 2(i): Return on Investment

| | CY-2<br>31 Mar 14 | CY-1<br>31 Mar 15 | Current Year CY<br>31 Mar 16 |
|---|---|---|---|
| ROI – comparable to a post tax WACC | % | % | % |
| Reflecting all revenue earned | 4.42% | 2.68% | 6.34% |
| Excluding revenue earned from financial incentives | 3.75% | 2.01% | 5.64% |
| Excluding revenue earned from financial incentives and wash-ups | 3.75% | 2.01% | 4.90% |
| **Mid-point estimate of post tax WACC** | 5.43% | 6.10% | 5.37% |
| 25th percentile estimate | 4.71% | 5.39% | 4.66% |
| 75th percentile estimate | 6.14% | 6.82% | 6.09% |
| ROI – comparable to a vanilla WACC | | | |
| Reflecting all revenue earned | 5.10% | 3.47% | 6.99% |
| Excluding revenue earned from financial incentives | 4.43% | 2.79% | 6.29% |
| Excluding revenue earned from financial incentives and wash-ups | 4.43% | 2.79% | 5.55% |
| **WACC rate used to set regulatory price path** | 8.77% | 8.77% | 7.19% |
| **Mid-point estimate of vanilla WACC** | 6.11% | 6.89% | 6.02% |
| 25th percentile estimate | 5.39% | 6.17% | 5.30% |
| 75th percentile estimate | 6.83% | 7.60% | 6.74% |

## 2(ii): Information Supporting the ROI

| | | | ($000) | |
|---|---|---|---|---|
| | Total opening RAB value | 216,722 | | |
| *plus* | Opening deferred tax | (5,077) | | |
| **Opening RIV** | | | 211,645 | |
| **Line charge revenue** | | | 46,887 | |
| | Expenses cash outflow | 22,446 | | |
| *add* | Assets commissioned | 15,017 | | |
| *less* | Asset disposals | 31 | | |
| *add* | Tax payments | 1,398 | | |
| *less* | Other regulated income | 643 | | |
| **Mid-year net cash outflows** | | | 38,187 | |
| **Term credit spread differential allowance** | | | – | |
| | Total closing RAB value | 224,551 | | |
| *less* | Adjustment resulting from asset allocation | – | | |
| *less* | Lost and found assets adjustment | – | | |
| *plus* | Closing deferred tax | (6,810) | | |
| **Closing RIV** | | | 217,741 | |
| | **ROI – comparable to a vanilla WACC** | | | 6.99% |
| | Leverage (%) | | | 44% |
| | Cost of debt assumption (%) | | | 5.26% |
| | Corporate tax rate (%) | | | 28% |
| | **ROI – comparable to a post tax WACC** | | | 6.34% |

Revised Sch 2. Continued…

| | |
|---|---|
| **Opening RIV** | 211,645 |

| | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated | Monthly net cash |
|---|---|---|---|---|---|---|
| April | 3,725 | 1,727 | 71 | - | 33 | 1,758 |
| May | 3,926 | 1,727 | 737 | - | 33 | 2,425 |
| June | 3,890 | 1,612 | 802 | - | 53 | 2,555 |
| July | 4,324 | 2,012 | 437 | 2 | 33 | 2,468 |
| August | 4,046 | 1,761 | 705 | 7 | 40 | 2,420 |
| September | 3,985 | 1,835 | 1,024 | 1 | 101 | 2,817 |
| October | 4,085 | 1,777 | 41 | 4 | 40 | 1,774 |
| November | 3,973 | 2,156 | 1,353 | 9 | 72 | 3,429 |
| December | 3,868 | 1,624 | 33 | - | 39 | 1,618 |
| January | 3,620 | 1,714 | 2,604 | - | 71 | 4,247 |
| February | 3,572 | 1,833 | 1,399 | 3 | 45 | 3,784 |
| March | 3,873 | 2,207 | 5,151 | 5 | 57 | 7,295 |
| **Total** | **46,887** | 22,446 | 15,017 | 31 | 643 | 36,768 |

| | |
|---|---|
| **Tax payments** | 1,398 |
| **Term credit spread differential allowance** | - |
| **Closing RIV** | 217,741 |
| **Monthly ROI – comparable to a vanilla WACC** | **7.11%** |
| **Monthly ROI – comparable to a post tax WACC** | **6.46%** |

## 2(iv): Year-End ROI Rates for Comparison Purposes

| | |
|---|---|
| **Year-end ROI – comparable to a vanilla WACC** | **4.86%** |
| **Year-end ROI – comparable to a post tax WACC** | **4.21%** |

** these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on I*

## 2(v): Financial Incentives and Wash-Ups

| | | |
|---|---|---|
| Net recoverable costs allowed under incremental rolling incentive scheme | - | |
| Purchased assets – avoided transmission charge | 2,018 | |
| Energy efficiency and demand incentive allowance | | |
| Quality incentive adjustment | | |
| Other financial incentives | | |
| **Financial incentives** | | 2,018 |
| **Impact of financial incentives on ROI** | | **0.70%** |
| Input methodology claw-back | 1,554 | |
| Recoverable customised price-quality path costs | | |
| Catastrophic event allowance | | |
| Capex wash-up adjustment | | |
| Transmission asset wash-up adjustment | | |
| 2013–2015 NPV wash-up allowance | 578 | |
| Reconsideration event allowance | | |
| Other wash-ups | | |
| **Wash-up costs** | | 2,132 |
| **Impact of wash-up costs on ROI** | | **0.74%** |

## (vi) Schedule 1 Analytical Ratios

Originally published 2016 schedule 1 Analytics;

### 1(i): Expenditure metrics

| | Expenditure per GWh energy delivered to ICPs ($/GWh) | Expenditure per average no. of ICPs ($/ICP) | Expenditure per MW maximum coincident system demand ($/MW) | Expenditure per km circuit length ($/km) | Expenditure per MVA of capacity from EDB-owned distribution transformers |
|---|---|---|---|---|---|
| **Operational expenditure** | 44,566 | 466 | 207,933 | 3,597 | 52,810 |
| Network | 19,116 | 200 | 89,190 | 1,543 | 22,652 |
| Non-network | 25,450 | 266 | 118,743 | 2,054 | 30,158 |
| **Expenditure on assets** | 50,786 | 531 | 236,954 | 4,099 | 60,181 |
| Network | 48,715 | 509 | 227,295 | 3,932 | 57,728 |
| Non-network | 2,070 | 22 | 9,659 | 167 | 2,453 |

### 1(ii): Revenue metrics

| | Revenue per GWh energy delivered to ICPs ($/GWh) | Revenue per average no. of ICPs ($/ICP) |
|---|---|---|
| **Total consumer line charge revenue** | 128,854 | 1,346 |
| Standard consumer line charge revenue | 151,390 | 1,290 |
| Non-standard consumer line charge revenue | 29,116 | 579,801 |

### 1(iii): Service intensity measures

| | | |
|---|---|---|
| Demand density | 17 | *Maximum coincident system demand per km of circuit length (for supply) (k* |
| Volume density | 81 | *Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km* |
| Connection point density | 8 | *Average number of ICPs per km of circuit length (for supply) (ICPs/km)* |
| Energy intensity | 10,447 | *Total energy delivered to ICPs per average number of ICPs (kWh/ICP)* |

### 1(iv): Composition of regulatory income

| | ($000) | % of revenue |
|---|---|---|
| Operational expenditure | 14,445 | 34.06% |
| Pass-through and recoverable costs excluding financial incentives ar | 8,001 | 18.87% |
| Total depreciation | 8,425 | 19.87% |
| Total revaluations | 1,268 | 2.99% |
| Regulatory tax allowance | 3,131 | 7.38% |
| Regulatory profit/(loss) including financial incentives and wash-ups | 9,674 | 22.81% |
| **Total regulatory income** | 42,409 | |

### 1(v): Reliability

| | | |
|---|---|---|
| Interruption rate | 15.21 | *Interruptions per 100 circuit km* |

Revised 2016 schedule 1 Analytics;

**1(i): Expenditure metrics**

| | Expenditure per GWh energy delivered to ICPs ($/GWh) | Expenditure per average no. of ICPs ($/ICP) | Expenditure per MW maximum coincident system demand ($/MW) | Expenditure per km circuit length ($/km) | Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA) |
|---|---|---|---|---|---|
| **Operational expenditure** | 44,566 | 466 | 207,933 | 3,597 | 52,810 |
| Network | 19,116 | 200 | 89,190 | 1,543 | 22,652 |
| Non-network | 25,450 | 266 | 118,743 | 2,054 | 30,158 |
| **Expenditure on assets** | 50,786 | 531 | 236,954 | 4,099 | 60,181 |
| Network | 48,715 | 509 | 227,295 | 3,932 | 57,728 |
| Non-network | 2,070 | 22 | 9,659 | 167 | 2,453 |

**1(ii): Revenue metrics**

| | Revenue per GWh energy delivered to ICPs ($/GWh) | Revenue per average no. of ICPs ($/ICP) |
|---|---|---|
| **Total consumer line charge revenue** | 144,655 | 1,511 |
| Standard consumer line charge revenue | 170,724 | 1,455 |
| Non-standard consumer line charge revenue | 29,284 | 583,146 |

**1(iii): Service intensity measures**

| | | |
|---|---|---|
| Demand density | 17 | *Maximum coincident system demand per km of circuit length (for supply) (kW/km)* |
| Volume density | 81 | *Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)* |
| Connection point density | 8 | *Average number of ICPs per km of circuit length (for supply) (ICPs/km)* |
| Energy intensity | 10,447 | *Total energy delivered to ICPs per average number of ICPs (kWh/ICP)* |

**1(iv): Composition of regulatory income**

| | ($000) | % of revenue |
|---|---|---|
| Operational expenditure | 14,445 | 30.39% |
| Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,001 | 16.83% |
| Total depreciation | 8,425 | 17.73% |
| Total revaluations | 1,268 | 2.67% |
| Regulatory tax allowance | 3,131 | 6.59% |
| Regulatory profit/(loss) including financial incentives and wash-ups | 14,796 | 31.13% |
| **Total regulatory income** | 47,531 | |

**1(v): Reliability**

| | | |
|---|---|---|
| Interruption rate | 15.21 | *Interruptions per 100 circuit km* |

| | |
|---|---|
| Company Name | Top Energy Ltd |
| For Year Ended | 2017 |

## Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.

2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

*Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)*

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

| Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts |
|---|
| The inflators used are consistent with those used by the Commission in its DPP Determination. |

*Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)*

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

| Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts |
|---|
| The inflators used are consistent with those used by the Commission in its DPP Determination. |

| | |
|---|---|
| Company Name | Top Energy Ltd |
| For Year Ended | 2017 |

## Schedule 15 Voluntary Explanatory Notes

1. This schedule enables EDBs to provide, should they wish to-

    1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;

    1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of the final wash-ups.

2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

3. Provide additional explanatory comment in the box below.

**Box 1: Voluntary explanatory comment on disclosed information**

The ROI – post tax excluding revenue earned from financial incentives and wash-ups is 7.44%. This is impacted by two key factors.

i. Discount – a $5.1m discretionary discount was paid during the year. If this discount was a posted discount, this would have reduced the ROI by 2.42%
ii. Revaluation – the CPI value used for the revaluation calculation was 2.17%, significantly higher than last year of 0.59%. The difference had a ROI impact of +1.6%

Taking both these factors into account, the ROI would drop from 7.44% to 3.41%

## Directors Certificate

# Certification for Year-end Disclosures

Clause 2.9.2
Electricity Distribution Information Disclosure Determination 2012

We, Murray Ian Bain and Gregory Mark Steed, being directors of Top Energy Limited certify that, having made all reasonable enquiry, to the best of our knowledge –

a) The information prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2 and 2.7.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and

b) The historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10 and 14 has been properly extracted from Top Energy's accounting and other records sourced from its financial and non-financial systems, and that sufficient records have been retained; and

M I Bain

G M Steed

29 August 2017

Deloitte.

## INDEPENDENT ASSURANCE REPORT TO THE DIRECTORS OF TOP ENERGY LIMITED AND TO THE COMMERCE COMMISSION

The Auditor-General is the auditor of Top Energy (the company). The Auditor-General has appointed me, Andrew Burgess, using the staff and resources of Deloitte Limited, to provide an opinion, on his behalf, on whether the information disclosed in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, the system average interruption duration index ('SAIDI') and system average interruption frequency index ('SAIFI') information disclosed in Schedule 10 and the explanatory notes in boxes 1 to 12 in Schedule 14 ('the Disclosure Information') for the disclosure year ended 31 March 2017, have been prepared, in all material respects, in accordance with the Electricity Distribution Information Disclosure Determination 2012 (the 'Determination').

### Directors' responsibility for the Disclosure Information

The directors of the company are responsible for preparation of the Disclosure Information in accordance with the Determination, and for such internal control as the directors determine is necessary to enable the preparation of the Disclosure Information that is free from material misstatement.

### Our responsibility for the Disclosure Information

Our responsibility is to express an opinion on whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

### Basis of opinion

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised) *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* issued by the External Reporting Board and the Standard on Assurance Engagements 3100: *Compliance Engagements* issued by the External Reporting Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared in all material respects in accordance with the Determination.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, we considered internal control relevant to the company's preparation of the Disclosure Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

### Use of this report

This independent assurance report has been prepared solely for the directors of the company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company or the Commerce Commission, or for any other purpose than that for which it was prepared.

### Scope and inherent limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Disclosure Information nor do we guarantee complete accuracy of the Disclosure Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information.

The opinion expressed in this independent assurance report has been formed on the above basis.

**Independence and quality control**

When carrying out the engagement, we complied with the Auditor-General's:

- independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board; and

- quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

We also complied with the independence requirements specified in the Determination.

The Auditor-General, and his employees, and Deloitte Limited and its partners and employees may deal with the company and its subsidiaries on normal terms within the ordinary course of trading activities of the company. Other than any dealings on normal terms within the ordinary course of business, this engagement, the assurance engagement related to Electricity Distribution Services Default Price-Quality Path Determination 2015, verification of unique emissions factor application and the annual audit of the company's financial statements, we have no relationship with or interests in the company and its subsidiaries.

**Opinion**

In our opinion:

- As far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the company;

- As far as appears from an examination, the information used in the preparation of the Disclosure Information has been properly extracted from the company's accounting and other records and has been sourced, where appropriate, from the company's financial and non-financial systems; and

- The Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

In forming our opinion, we have obtained sufficient recorded evidence and all the information and explanations we have required.

Andrew Burgess, Partner
**for Deloitte Limited**
**On behalf of the Auditor-General**
Auckland, New Zealand
29 August 2017