# EDB Information Disclosure Requirements

## Information Templates

## for

## Schedules 1–10

| | |
|---|---|
| **Company Name** | Eastland Network Limited |
| **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

## Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

### *Company Name and Dates*

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.
The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).
The cell C8 entry (company name) is used in the template title blocks.
Dates should be entered in day/month/year order (Example -"1 April 2013").

### *Data Entry Cells and Calculated Cells*

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.
In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

### *Validation Settings on Data Entry Cells*

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

### *Conditional Formatting Settings on Data Entry Cells*

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).
Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).
Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).
Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.
Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

### *Inserting Additional Rows and Columns*

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.
Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.
Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.
The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

### *Disclosures by Sub-Network*

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

### *Schedule References*

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 24 March 2015). They provide a common reference between the rows in the determination and the template.

### *Description of Calculation References*

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

### *Worksheet Completion Sequence*

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

### 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** | 33,824 | 364 | 157,519 | 2,340 | 41,287 |
| Network | 16,722 | 180 | 77,877 | 1,157 | 20,412 |
| Non-network | 17,102 | 184 | 79,643 | 1,183 | 20,875 |
| | | | | | |
| **Expenditure on assets** | 28,062 | 302 | 130,688 | 1,942 | 34,254 |
| Network | 26,135 | 281 | 121,710 | 1,808 | 31,901 |
| Non-network | 1,928 | 21 | 8,978 | 133 | 2,353 |

### 1(ii): Revenue metrics

| | Revenue per GWh energy delivered to ICPs ($/GWh) | Revenue per average no. of ICPs ($/ICP) |
|---|---|---|
| **Total consumer line charge revenue** | 126,541 | 1,362 |
| Standard consumer line charge revenue | 126,541 | 1,362 |
| Non-standard consumer line charge revenue | – | – |

### 1(iii): Service intensity measures

| | | |
|---|---|---|
| Demand density | 15 | *Maximum coincident system demand per km of circuit length (for supply) (kW/km)* |
| Volume density | 69 | *Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)* |
| Connection point density | 6 | *Average number of ICPs per km of circuit length (for supply) (ICPs/km)* |
| Energy intensity | 10,762 | *Total energy delivered to ICPs per average number of ICPs (kWh/ICP)* |

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

| | ($000) | % of revenue |
|---|---|---|
| Operational expenditure | 9,248 | 26.49% |
| Pass-through and recoverable costs excluding financial incentives and wash-ups | 7,100 | 20.33% |
| Total depreciation | 6,307 | 18.06% |
| Total revaluations | 3,020 | 8.65% |
| Regulatory tax allowance | 3,274 | 9.38% |
| Regulatory profit/(loss) including financial incentives and wash-ups | 12,008 | 34.39% |
| **Total regulatory income** | 34,918 | |

### 1(v): Reliability

| | | |
|---|---|---|
| Interruption rate | 12.30 | *Interruptions per 100 circuit km* |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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 | 4.13% | 6.34% | 8.39% |
| 11 | Excluding revenue earned from financial incentives | 4.13% | 4.29% | 6.34% |
| 12 | Excluding revenue earned from financial incentives and wash-ups | 4.13% | 4.29% | 6.43% |
| 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 | 4.92% | 6.99% | 8.94% |
| 21 | Excluding revenue earned from financial incentives | 4.92% | 4.94% | 6.88% |
| 22 | Excluding revenue earned from financial incentives and wash-ups | 4.92% | 4.94% | 6.97% |
| 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 | | | | |

| | | | | |
|---|---|---|---|---|
| 30 | **2(ii): Information Supporting the ROI** | | **($000)** | |
| 31 | | | | |
| 32 | Total opening RAB value | 140,586 | | |
| 33 | *plus* Opening deferred tax | (4,525) | | |
| 34 | **Opening RIV** | | 136,061 | |
| 35 | | | | |
| 36 | **Line charge revenue** | | 34,599 | |
| 37 | | | | |
| 38 | Expenses cash outflow | 16,348 | | |
| 39 | *add* Assets commissioned | 7,724 | | |
| 40 | *less* Asset disposals | 313 | | |
| 41 | *add* Tax payments | 1,129 | | |
| 42 | *less* Other regulated income | 319 | | |
| 43 | **Mid-year net cash outflows** | | 24,569 | |
| 44 | | | | |
| 45 | **Term credit spread differential allowance** | | – | |
| 46 | | | | |
| 47 | Total closing RAB value | 151,867 | | |
| 48 | *less* Adjustment resulting from asset allocation | 7,158 | | |
| 49 | *less* Lost and found assets adjustment | – | | |
| 50 | *plus* Closing deferred tax | (6,671) | | |
| 51 | **Closing RIV** | | 138,039 | |
| 52 | | | | |
| 53 | **ROI – comparable to a vanilla WACC** | | | 8.94% |
| 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** | | | 8.39% |
| 60 | | | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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).
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*sch ref*

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

**Opening RIV** — N/A

| | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated income | Monthly net cash outflows |
|---|---|---|---|---|---|---|
| April | | | | | | – |
| May | | | | | | – |
| June | | | | | | – |
| July | | | | | | – |
| August | | | | | | – |
| September | | | | | | – |
| October | | | | | | – |
| November | | | | | | – |
| December | | | | | | – |
| January | | | | | | – |
| February | | | | | | – |
| March | | | | | | – |
| **Total** | – | – | – | – | – | – |

**Tax payments** — N/A

**Term credit spread differential allowance** — N/A

**Closing RIV** — N/A

**Monthly ROI – comparable to a vanilla WACC** — N/A

**Monthly ROI – comparable to a post tax WACC** — N/A

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

**Year-end ROI – comparable to a vanilla WACC** — 6.02%

**Year-end ROI – comparable to a post tax WACC** — 5.48%

** 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 | 3,746 | |
| Energy efficiency and demand incentive allowance | – | |
| Quality incentive adjustment | – | |
| Other financial incentives | – | |
| **Financial incentives** | | 3,746 |

**Impact of financial incentives on ROI** — 2.06%

| | | |
|---|---|---|
| Input methodology claw-back | – | |
| Recoverable customised price-quality path costs | – | |
| Catastrophic event allowance | – | |
| Capex wash-up adjustment | (167) | |
| Transmission asset wash-up adjustment | – | |
| 2013–2015 NPV wash-up allowance | – | |
| Reconsideration event allowance | – | |
| Other wash-ups | – | |
| **Wash-up costs** | | (167) |

**Impact of wash-up costs on ROI** — –0.09%

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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 | | 34,599 |
| 10 | *plus* | Gains / (losses) on asset disposals | | (301) |
| 11 | *plus* | Other regulated income (other than gains / (losses) on asset disposals) | | 619 |
| 12 | | | | |
| 13 | | **Total regulatory income** | | 34,918 |
| 14 | | **Expenses** | | |
| 15 | *less* | Operational expenditure | | 9,248 |
| 16 | | | | |
| 17 | *less* | Pass-through and recoverable costs excluding financial incentives and wash-ups | | 7,100 |
| 18 | | | | |
| 19 | | **Operating surplus / (deficit)** | | 18,570 |
| 20 | | | | |
| 21 | *less* | Total depreciation | | 6,307 |
| 22 | | | | |
| 23 | *plus* | Total revaluations | | 3,020 |
| 24 | | | | |
| 25 | | **Regulatory profit / (loss) before tax** | | 15,282 |
| 26 | | | | |
| 27 | *less* | Term credit spread differential allowance | | – |
| 28 | | | | |
| 29 | *less* | Regulatory tax allowance | | 3,274 |
| 30 | | | | |
| 31 | | **Regulatory profit/(loss) including financial incentives and wash-ups** | | 12,008 |
| 32 | | | | |
| 33 | **3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups** | | **($000)** | |
| 34 | | **Pass through costs** | | |
| 35 | | Rates | 250 | |
| 36 | | Commerce Act levies | 68 | |
| 37 | | Industry levies | 63 | |
| 38 | | CPP specified pass through costs | – | |
| 39 | | **Recoverable costs excluding financial incentives and wash-ups** | | |
| 40 | | Electricity lines service charge payable to Transpower | 5,965 | |
| 41 | | Transpower new investment contract charges | 109 | |
| 42 | | System operator services | – | |
| 43 | | Distributed generation allowance | 645 | |
| 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** | | 7,100 |
| 47 | | | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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).
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*sch ref*

### 3(iii): Incremental Rolling Incentive Scheme

($000)

| | | CY-1 31 Mar 16 | CY 31 Mar 17 |
|---|---|---|---|
| 51 | Allowed controllable opex | – | – |
| 52 | Actual controllable opex | – | – |
| 53 | | | |
| 54 | Incremental change in year | | – |
| 55 | | | |

| | | | 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** | | | – |

### 3(iv): Merger and Acquisition Expenditure

| | | ($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)* | |

### 3(v): Other Disclosures

| | | ($000) |
|---|---|---|
| 71 | Self-insurance allowance | – |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

### 4(i): Regulatory Asset Base Value (Rolled Forward)

| | | for year ended | RAB 31 Mar 13 ($000) | RAB 31 Mar 14 ($000) | RAB 31 Mar 15 ($000) | RAB 31 Mar 16 ($000) | RAB 31 Mar 17 ($000) |
|---|---|---|---|---|---|---|---|
| 10 | | **Total opening RAB value** | 122,464 | 123,189 | 125,599 | 139,164 | 140,586 |
| 12 | *less* | **Total depreciation** | 4,893 | 5,090 | 5,148 | 5,667 | 6,307 |
| 14 | *plus* | **Total revaluations** | 1,049 | 1,882 | 105 | 815 | 3,020 |
| 16 | *plus* | **Assets commissioned** | 4,831 | 5,764 | 18,615 | 6,363 | 7,724 |
| 18 | *less* | **Asset disposals** | 263 | 146 | 8 | 89 | 313 |
| 20 | *plus* | **Lost and found assets adjustment** | – | – | – | – | – |
| 22 | *plus* | **Adjustment resulting from asset allocation** | – | – | – | – | 7,158 |
| 24 | | **Total closing RAB value** | 123,189 | 125,599 | 139,164 | 140,586 | 151,867 |

### 4(ii): Unallocated Regulatory Asset Base

| | | | Unallocated RAB * ($000) | Unallocated RAB * ($000) | RAB ($000) | RAB ($000) |
|---|---|---|---|---|---|---|
| 29 | | **Total opening RAB value** | | 147,744 | | 140,586 |
| 30 | *less* | | | | | |
| 31 | | **Total depreciation** | | 6,307 | | 6,307 |
| 32 | *plus* | | | | | |
| 33 | | **Total revaluations** | | 3,020 | | 3,020 |
| 34 | *plus* | | | | | |
| 35 | | Assets commissioned (other than below) | 7,724 | | 7,724 | |
| 36 | | Assets acquired from a regulated supplier | – | | – | |
| 37 | | Assets acquired from a related party | – | | – | |
| 38 | | **Assets commissioned** | | 7,724 | | 7,724 |
| 39 | *less* | | | | | |
| 40 | | Asset disposals (other than below) | 313 | | 313 | |
| 41 | | Asset disposals to a regulated supplier | – | | – | |
| 42 | | Asset disposals to a related party | – | | – | |
| 43 | | **Asset disposals** | | 313 | | 313 |
| 45 | *plus* | **Lost and found assets adjustment** | | – | | – |
| 47 | *plus* | **Adjustment resulting from asset allocation** | | | | 7,158 |
| 49 | | **Total closing RAB value** | | 151,867 | | 151,867 |

** 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* | **Eastland Network Limited** |
| *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*

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

| | | | |
|---|---|---|---|
| 54 | | $CPI_4$ | 1,226 |
| 55 | | $CPI_4^{-4}$ | 1,200 |
| 56 | | Revaluation rate (%) | 2.17% |

| | | | Unallocated RAB * | | RAB | |
|---|---|---|---|---|---|---|
| | | | ($000) | ($000) | ($000) | ($000) |
| 60 | | Total opening RAB value | 147,744 | | 140,586 | |
| 61 | *less* | Opening value of fully depreciated, disposed and lost assets | 8,366 | | 1,208 | |
| 63 | | Total opening RAB value subject to revaluation | 139,378 | | 139,378 | |
| 64 | | **Total revaluations** | | 3,020 | | 3,020 |

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

| | | | Unallocated works under construction | | Allocated works under construction | |
|---|---|---|---|---|---|---|
| 68 | | **Works under construction—preceding disclosure year** | | 264 | | 264 |
| 69 | *plus* | Capital expenditure | 7,673 | | 7,673 | |
| 70 | *less* | Assets commissioned | 7,724 | | 7,724 | |
| 71 | *plus* | Adjustment resulting from asset allocation | | | | |
| 72 | | **Works under construction - current disclosure year** | | 213 | | 213 |
| 74 | | Highest rate of capitalised finance applied | | | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

### 4(v): Regulatory Depreciation

| | Unallocated RAB * | | RAB | |
|---|---|---|---|---|
| | ($000) | ($000) | ($000) | ($000) |
| Depreciation - standard | 6,307 | | 6,307 | |
| Depreciation - no standard life assets | – | | – | |
| Depreciation - modified life assets | – | | – | |
| Depreciation - alternative depreciation in accordance with CPP | – | | – | |
| **Total depreciation** | | 6,307 | | 6,307 |

### 4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

| 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 |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

** include additional rows if needed*

### 4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

| | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Total opening RAB value** | 14,108 | 1,392 | 20,256 | 52,220 | 23,060 | 16,107 | 7,081 | 3,710 | 2,651 | 140,586 |
| *less* | Total depreciation | 722 | 31 | 1,360 | 1,841 | 805 | 646 | 479 | 305 | 119 | 6,307 |
| *plus* | Total revaluations | 301 | 30 | 419 | 1,129 | 503 | 343 | 164 | 77 | 53 | 3,020 |
| *plus* | Assets commissioned | 1,535 | – | 433 | 2,153 | 1,114 | 1,037 | 690 | 141 | 621 | 7,724 |
| *less* | Asset disposals | – | – | 11 | 4 | – | 52 | 43 | 40 | 163 | 313 |
| *plus* | Lost and found assets adjustment | – | – | – | – | – | – | – | – | – | – |
| *plus* | Adjustment resulting from asset allocation | – | – | – | – | – | – | – | – | 7,158 | 7,158 |
| *plus* | Asset category transfers | (114) | 0 | (413) | (54) | 218 | (195) | 668 | (71) | (40) | (0) |
| | **Total closing RAB value** | 15,108 | 1,391 | 19,326 | 53,605 | 24,090 | 16,594 | 8,081 | 3,511 | 10,161 | 151,867 |
| | **Asset Life** | | | | | | | | | | |
| | Weighted average remaining asset life | 34.6 | 43.4 | 29.9 | 38.4 | 40.9 | 31.5 | 25.9 | 16.7 | 14.4 | (years) |
| | Weighted average expected total asset life | 56.7 | 55.0 | 43.4 | 55.5 | 59.5 | 44.7 | 38.2 | 26.1 | 16.4 | (years) |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
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# 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* | | | | | |
|---|---|---|---|---|---|
| 7 | **5a(i): Regulatory Tax Allowance** | | | | **($000)** |
| 8 | | **Regulatory profit / (loss) before tax** | | | 15,282 |
| 9 | | | | | |
| 10 | *plus* | Income not included in regulatory profit / (loss) before tax but taxable | – | * | |
| 11 | | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | 2 | * | |
| 12 | | Amortisation of initial differences in asset values | 1,906 | | |
| 13 | | Amortisation of revaluations | 107 | | |
| 14 | | | | | 2,015 |
| 15 | | | | | |
| 16 | *less* | Total revaluations | 3,020 | | |
| 17 | | Income included in regulatory profit / (loss) before tax but not taxable | – | * | |
| 18 | | Discretionary discounts and customer rebates | – | | |
| 19 | | Expenditure or loss deductible but not in regulatory profit / (loss) before tax | – | * | |
| 20 | | Notional deductible interest | 2,584 | | |
| 21 | | | | | 5,604 |
| 22 | | | | | |
| 23 | | **Regulatory taxable income** | | | 11,693 |
| 24 | | | | | |
| 25 | *less* | Utilised tax losses | – | | |
| 26 | | Regulatory net taxable income | | | 11,693 |
| 27 | | | | | |
| 28 | | Corporate tax rate (%) | 28% | | |
| 29 | | **Regulatory tax allowance** | | | 3,274 |
| 30 | | | | | |
| 31 | * Workings to be provided in Schedule 14 | | | | |
| 32 | **5a(ii): Disclosure of Permanent Differences** | | | | |
| 33 | | In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i). | | | |
| 34 | **5a(iii): Amortisation of Initial Difference in Asset Values** | | | | **($000)** |
| 35 | | | | | |
| 36 | | Opening unamortised initial differences in asset values | 49,511 | | |
| 37 | *less* | Amortisation of initial differences in asset values | 1,906 | | |
| 38 | *plus* | Adjustment for unamortised initial differences in assets acquired | – | | |
| 39 | *less* | Adjustment for unamortised initial differences in assets disposed | 31 | | |
| 40 | | Closing unamortised initial differences in asset values | | | 47,574 |
| 41 | | | | | |
| 42 | | Opening weighted average remaining useful life of relevant assets (years) | | | 26 |
| 43 | | | | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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 | | 132,173 | |
| 47 | | | | | |
| 48 | | Adjusted depreciation | | 6,200 | |
| 49 | | Total depreciation | | 6,307 | |
| 50 | | Amortisation of revaluations | | | 107 |
| 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** | | (4,525) | |
| 61 | | | | | |
| 62 | *plus* | Tax effect of adjusted depreciation | | 1,736 | |
| 63 | | | | | |
| 64 | *less* | Tax effect of tax depreciation | | 1,781 | |
| 65 | | | | | |
| 66 | *plus* | Tax effect of other temporary differences* | | (3) | |
| 67 | | | | | |
| 68 | *less* | Tax effect of amortisation of initial differences in asset values | | 534 | |
| 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 | | (76) | |
| 73 | | | | | |
| 74 | *plus* | Deferred tax cost allocation adjustment | | (1,640) | |
| 75 | | | | | |
| 76 | | **Closing deferred tax** | | | (6,671) |
| 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** | | 66,904 | |
| 84 | *less* | Tax depreciation | | 6,362 | |
| 85 | *plus* | Regulatory tax asset value of assets commissioned | | 7,691 | |
| 86 | *less* | Regulatory tax asset value of asset disposals | | 41 | |
| 87 | *plus* | Lost and found assets adjustment | | – | |
| 88 | *plus* | Adjustment resulting from asset allocation | | 1,300 | |
| 89 | *plus* | Other adjustments to the RAB tax value | | – | |
| 90 | | **Closing sum of regulatory tax asset values** | | | 69,492 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
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# 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*

## 5b(i): Summary—Related Party Transactions

| | ($000) |
|---|---|
| Total regulatory income | 449 |
| Operational expenditure | 5,492 |
| Capital expenditure | 928 |
| Market value of asset disposals | – |
| Other related party transactions | – |

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

| Name of related party | Related party relationship |
|---|---|
| Eastech Limited | A subsidiary of the Eastland Group Ltd who is the 100% shareholder of Eastland Network Ltd |
| Eastland Generation Limited | A subsidiary of the Eastland Group Ltd who is the 100% shareholder of Eastland Network Ltd |
| Eastland Investment Properties Limited | A subsidiary of the Eastland Group Ltd who is the 100% shareholder of Eastland Network Ltd |
| Eastland Group Limited | Eastland Group Ltd is the 100% shareholder of Eastland Network Ltd |
| Flick Energy Ltd | Eastland Energy Solutions Ltd owned 18.65% of Flick Energy Ltd as at 31 March 2017. Eastland Energy Solutions is a wholly owned subsidiary of our parent Eastland Group Ltd. |

** include additional rows if needed*

## 5b(iii): Related Party Transactions

| Name of related party | Related party transaction type | Description of transaction | Value of transaction ($000) | Basis for determining value |
|---|---|---|---|---|
| Eastech Limited | Opex | Fault & Maintenance Services | 1,224 | ID clause 2.3.6(1)(b) |
| Eastech Limited | Capex | Electrical Contract Services that are capital in nature | 928 | IM clause 2.2.11(5)(b)(ii) |
| Eastech Limited | Sales | Miscellaneous Income | 13 | ID clause 2.3.7(2)(c) |
| Eastland Generation Limited | Sales | Maintenance Services | 275 | ID clause 2.3.7(2)(c) |
| Eastland Generation Limited | Sales | Connection Charges | 97 | ID clause 2.3.7(2)(a) |
| Eastland Generation Limited | Opex | Avoided Cost of Transmission | 450 | ID clause 2.3.6(1)(f) |
| Eastland Generation Limited | Opex | Avoided Cost of Distribution | 1,643 | ID clause 2.3.6(1)(f) |
| Eastland Investment Properties Limited | Opex | Rent | 11 | ID clause 2.3.6(1)(c)(i) |
| Eastland Group Limited | Opex | Management Fees/Shared Services | 2,163 | ID clause 2.3.6(1)(f) |
| Flick Energy Ltd | Sales | Line Charges | 63 | ID clause 2.3.7(2)(a) |
| | [Select one] | | | [Select one] |
| | [Select one] | | | [Select one] |
| | [Select one] | | | [Select one] |
| | [Select one] | | | [Select one] |
| | [Select one] | | | [Select one] |

** include additional rows if needed*

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

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

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| * include additional rows if needed | | | | | | – | – | – | – |

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

| | | |
|---|---|---|
| **Gross term credit spread differential** | | – |
| Total book value of interest bearing debt | | |
| Leverage | 44% | |
| Average opening and closing RAB values | | |
| **Attribution Rate (%)** | | – |
| **Term credit spread differential allowance** | | – |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

### 5d(i): Operating Cost Allocations

| | Value allocated ($000s) | | | | |
|---|---|---|---|---|---|
| | Arm's length deduction | Electricity distribution services | Non-electricity distribution services | Total | OVABAA allocation increase ($000s) |
| **Service interruptions and emergencies** | | | | | |
| Directly attributable | | 1,106 | | | |
| Not directly attributable | – | – | – | – | – |
| **Total attributable to regulated service** | | 1,106 | | | |
| **Vegetation management** | | | | | |
| Directly attributable | | 699 | | | |
| Not directly attributable | – | – | – | – | – |
| **Total attributable to regulated service** | | 699 | | | |
| **Routine and corrective maintenance and inspection** | | | | | |
| Directly attributable | | 910 | | | |
| Not directly attributable | – | – | – | – | – |
| **Total attributable to regulated service** | | 910 | | | |
| **Asset replacement and renewal** | | | | | |
| Directly attributable | | 1,857 | | | |
| Not directly attributable | – | – | – | – | – |
| **Total attributable to regulated service** | | 1,857 | | | |
| **System operations and network support** | | | | | |
| Directly attributable | | 1,391 | | | |
| Not directly attributable | – | – | – | – | – |
| **Total attributable to regulated service** | | 1,391 | | | |
| **Business support** | | | | | |
| Directly attributable | | 1,122 | | | |
| Not directly attributable | (60) | 2,163 | 3,561 | 5,665 | – |
| **Total attributable to regulated service** | | 3,285 | | | |
| | | | | | |
| **Operating costs directly attributable** | | 7,085 | | | |
| **Operating costs not directly attributable** | (60) | 2,163 | 3,561 | 5,665 | – |
| **Operational expenditure** | | 9,248 | | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

### 5d(ii): Other Cost Allocations

| | ($000) |
|---|---|
| **Pass through and recoverable costs** | |
| **Pass through costs** | |
| Directly attributable | 381 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 381 |
| **Recoverable costs** | |
| Directly attributable | 6,719 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 6,719 |

### 5d(iii): Changes in Cost Allocations* †

**Change in cost allocation 1**

| | | ($000) CY-1 | ($000) Current Year (CY) |
|---|---|---|---|
| Cost category | Original allocation | | |
| Original allocator or line items | New allocation | | |
| New allocator or line items | Difference | – | – |

Rationale for change: 0

**Change in cost allocation 2**

| | | ($000) CY-1 | ($000) Current Year (CY) |
|---|---|---|---|
| Cost category | Original allocation | | |
| Original allocator or line items | New allocation | | |
| New allocator or line items | Difference | – | – |

Rationale for change: 0

**Change in cost allocation 3**

| | | ($000) CY-1 | ($000) Current Year (CY) |
|---|---|---|---|
| Cost category | Original allocation | | |
| Original allocator or line items | New allocation | | |
| New allocator or line items | Difference | – | – |

Rationale for change: 0

** 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.*

*† include additional rows if needed*

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

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

| | Value allocated ($000s) Electricity distribution services |
|---|---|
| **Subtransmission lines** | |
| Directly attributable | 15,108 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 15,108 |
| **Subtransmission cables** | |
| Directly attributable | 1,391 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 1,391 |
| **Zone substations** | |
| Directly attributable | 19,326 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 19,326 |
| **Distribution and LV lines** | |
| Directly attributable | 53,605 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 53,605 |
| **Distribution and LV cables** | |
| Directly attributable | 24,090 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 24,090 |
| **Distribution substations and transformers** | |
| Directly attributable | 16,594 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 16,594 |
| **Distribution switchgear** | |
| Directly attributable | 8,081 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 8,081 |
| **Other network assets** | |
| Directly attributable | 3,511 |
| Not directly attributable | – |
| **Total attributable to regulated service** | 3,511 |
| **Non-network assets** | |
| Directly attributable | 7,234 |
| Not directly attributable | 2,927 |
| **Total attributable to regulated service** | 10,161 |
| **Regulated service asset value directly attributable** | 148,941 |
| **Regulated service asset value not directly attributable** | 2,927 |
| **Total closing RAB value** | 151,867 |

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

**Change in asset value allocation 1**

| | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | – | – |
| Rationale for change | | | | |

**Change in asset value allocation 2**

| | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | – | – |
| Rationale for change | | | | |

**Change in asset value allocation 3**

| | | | ($000) CY-1 | Current Year (CY) |
|---|---|---|---|---|
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | – | – |
| Rationale for change | | | | |

** 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 compone*
*† include additional rows if needed*

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
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## 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*

### 6a(i): Expenditure on Assets

| | | | ($000) | ($000) |
|---|---|---|---|---|
| 8 | | Consumer connection | | 105 |
| 9 | | System growth | | 411 |
| 10 | | Asset replacement and renewal | | 6,195 |
| 11 | | Asset relocations | | 25 |
| 12 | | Reliability, safety and environment: | | |
| 13 | | Quality of supply | 29 | |
| 14 | | Legislative and regulatory | – | |
| 15 | | Other reliability, safety and environment | 382 | |
| 16 | | **Total reliability, safety and environment** | | 411 |
| 17 | | **Expenditure on network assets** | | 7,146 |
| 18 | | Expenditure on non-network assets | | 527 |
| 19 | | | | |
| 20 | | **Expenditure on assets** | | 7,673 |
| 21 | *plus* | Cost of financing | | – |
| 22 | *less* | Value of capital contributions | | – |
| 23 | *plus* | Value of vested assets | | – |
| 24 | | | | |
| 25 | | **Capital expenditure** | | 7,673 |

### 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 | – |

### 6a(iii): Consumer Connection

| | *Consumer types defined by EDB** | ($000) | ($000) |
|---|---|---|---|
| 32 | Residential | 17 | |
| 33 | Commercial | – | |
| 34 | Industrial | 88 | |
| 35 | [EDB consumer type] | – | |
| 36 | [EDB consumer type] | – | |
| 37 | ** include additional rows if needed* | | |
| 38 | **Consumer connection expenditure** | | 105 |
| 39 | | | |
| 40 | *less* Capital contributions funding consumer connection expenditure | – | |
| 41 | **Consumer connection less capital contributions** | | 105 |

### 6a(iv): System Growth and Asset Replacement and Renewal

| | | System Growth ($000) | Asset Replacement and Renewal ($000) |
|---|---|---|---|
| 45 | Subtransmission | – | 1,697 |
| 46 | Zone substations | – | 445 |
| 47 | Distribution and LV lines | 154 | 2,340 |
| 48 | Distribution and LV cables | 111 | 150 |
| 49 | Distribution substations and transformers | 146 | 610 |
| 50 | Distribution switchgear | – | 721 |
| 51 | Other network assets | – | 232 |
| 52 | **System growth and asset replacement and renewal expenditure** | 411 | 6,195 |
| 53 | *less* Capital contributions funding system growth and asset replacement and renewal | – | – |
| 54 | **System growth and asset replacement and renewal less capital contributions** | 411 | 6,195 |

### 6a(v): Asset Relocations

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| 58 | Asset relocations (for Territorial authorities) | 25 | |
| 59 | [Description of material project or programme] | – | |
| 60 | [Description of material project or programme] | – | |
| 61 | [Description of material project or programme] | – | |
| 62 | [Description of material project or programme] | – | |
| 63 | ** include additional rows if needed* | | |
| 64 | All other projects or programmes - asset relocations | – | |
| 65 | **Asset relocations expenditure** | | 25 |
| 66 | *less* Capital contributions funding asset relocations | – | |
| 67 | **Asset relocations less capital contributions** | | 25 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
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## 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*

### 6a(vi): Quality of Supply

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| | SCADA Master Station Development | 29 | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | ** include additional rows if needed* | | |
| | All other projects programmes - quality of supply | – | |
| | **Quality of supply expenditure** | | 29 |
| *less* | Capital contributions funding quality of supply | – | |
| | **Quality of supply less capital contributions** | | 29 |

### 6a(vii): Legislative and Regulatory

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | ** include additional rows if needed* | | |
| | All other projects or programmes - legislative and regulatory | – | |
| | **Legislative and regulatory expenditure** | | – |
| *less* | Capital contributions funding legislative and regulatory | – | |
| | **Legislative and regulatory less capital contributions** | | – |

### 6a(viii): Other Reliability, Safety and Environment

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| | CBD UG Project (Stg2 Roebuck, Disrallei Streets) - Environ | 282 | |
| | Wairoa GXP 11kV Feeder Rationalisation/Reinstatement | 74 | |
| | Service Fuse Boxes & Meter Bds to Replace Galv Meter Box, 50pa - Safety | 26 | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | ** include additional rows if needed* | | |
| | All other projects or programmes - other reliability, safety and environment | – | |
| | **Other reliability, safety and environment expenditure** | | 382 |
| *less* | Capital contributions funding other reliability, safety and environment | – | |
| | **Other reliability, safety and environment less capital contributions** | | 382 |

### 6a(ix): Non-Network Assets

**Routine expenditure**

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| | Test Instrument & Safety Equipment, Additional/Upgrade | 2 | |
| | Vehicle Replacement @ $60k each | 131 | |
| | General asset replacement | 16 | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | ** include additional rows if needed* | | |
| | All other projects or programmes - routine expenditure | – | |
| | **Routine expenditure** | | 148 |

**Atypical expenditure**

| | *Project or programme** | ($000) | ($000) |
|---|---|---|---|
| | Property Capital Projects (ENL Carnarvon St office refurb) | 275 | |
| | Solar PV Trial | 104 | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | [Description of material project or programme] | – | |
| | ** include additional rows if needed* | | |
| | All other projects or programmes - atypical expenditure | – | |
| | **Atypical expenditure** | | 379 |
| | **Expenditure on non-network assets** | | 527 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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* | | ($000) | ($000) |
|---|---|---|---|
| 7 | **6b(i): Operational Expenditure** | | |
| 8 | Service interruptions and emergencies | 1,106 | |
| 9 | Vegetation management | 699 | |
| 10 | Routine and corrective maintenance and inspection | 910 | |
| 11 | Asset replacement and renewal | 1,857 | |
| 12 | **Network opex** | | 4,572 |
| 13 | System operations and network support | 1,391 | |
| 14 | Business support | 3,285 | |
| 15 | **Non-network opex** | | 4,676 |
| 16 | | | |
| 17 | **Operational expenditure** | | 9,248 |
| 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 | | 144 |
| 23 | ** Direct billing expenditure by suppliers that directly bill the majority of their consumers* | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

| | | Target ($000) [1] | Actual ($000) | % variance |
|---|---|---|---|---|
| 7 | **7(i): Revenue** | | | |
| 8 | Line charge revenue | 35,494 | 34,599 | (3%) |
| | | **Forecast ($000) [2]** | **Actual ($000)** | **% variance** |
| 9 | **7(ii): Expenditure on Assets** | | | |
| 10 | Consumer connection | 112 | 105 | (7%) |
| 11 | System growth | 1,104 | 411 | (63%) |
| 12 | Asset replacement and renewal | 7,668 | 6,195 | (19%) |
| 13 | Asset relocations | 56 | 25 | (56%) |
| 14 | Reliability, safety and environment: | | | |
| 15 | Quality of supply | 101 | 29 | (71%) |
| 16 | Legislative and regulatory | – | – | – |
| 17 | Other reliability, safety and environment | 602 | 382 | (37%) |
| 18 | **Total reliability, safety and environment** | 703 | 411 | (42%) |
| 19 | **Expenditure on network assets** | 9,643 | 7,146 | (26%) |
| 20 | Expenditure on non-network assets | 2,293 | 527 | (77%) |
| 21 | Expenditure on assets | 11,936 | 7,673 | (36%) |
| 22 | **7(iii): Operational Expenditure** | | | |
| 23 | Service interruptions and emergencies | 1,138 | 1,106 | (3%) |
| 24 | Vegetation management | 1,079 | 699 | (35%) |
| 25 | Routine and corrective maintenance and inspection | 1,516 | 910 | (40%) |
| 26 | Asset replacement and renewal | 1,934 | 1,857 | (4%) |
| 27 | **Network opex** | 5,667 | 4,572 | (19%) |
| 28 | System operations and network support | 1,510 | 1,391 | (8%) |
| 29 | Business support | 3,495 | 3,285 | (6%) |
| 30 | **Non-network opex** | 5,005 | 4,676 | (7%) |
| 31 | **Operational expenditure** | 10,672 | 9,248 | (13%) |
| 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 | 144 | 144 | 0% |
| 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* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-Network Name* | **Total Gisborne & Wairoa** |

## 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) | Billed quantities by price component | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Price component | Fixed | Variable Uncontrolled | Variable Controlled | Variable Night (Mass Market) | Variable Evening Peak (TOU) | Variable Morning Peak (TOU) | Variable Off Peak (TOU) | Variable Night (TOU) |
| | | | | | | Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.) | Days | kWh | kWh | kWh | kWh | kWh | kWh | kWh |
| 15 | PDH0030 | Domestic | Standard | 13,717 | 81,555 | | 5,006,705 | 58,433,592 | 23,096,991 | 24,247 | – | – | – | – |
| 16 | PDL0030 | Domestic | Standard | 5,657 | 35,298 | | 2,064,805 | 26,415,626 | 8,840,517 | 41,824 | – | – | – | – |
| 17 | PNH0003 | Non-Domestic, High density | Standard | 134 | 659 | | 48,910 | 658,335 | 201 | – | – | – | – | – |
| | PNH0030 | Non-Domestic, High density | Standard | 1,672 | 21,110 | | 610,280 | 20,074,359 | 1,002,568 | 32,615 | – | – | – | – |
| | PNH0100 | Non-Domestic, High density | Standard | 283 | 20,319 | | 103,295 | 19,736,688 | 347,900 | 234,073 | – | – | – | – |
| | PNH0300 | Non-Domestic, High density | Standard | 68 | 14,011 | | 24,820 | 14,011,454 | – | – | – | – | – | – |
| | PTH0300 | Non-Domestic, High density | Standard | 6 | 2,604 | | 2,190 | – | – | – | 470,167 | 656,280 | 856,631 | 620,792 |
| | PNH0500 | Non-Domestic, High density | Standard | 16 | 8,283 | | 5,840 | – | – | – | 1,281,613 | 2,141,246 | 2,686,826 | 2,173,551 |
| | PNH1000 | Non-Domestic, High density | Standard | 21 | 24,148 | | 7,665 | – | – | – | 4,050,672 | 5,668,961 | 7,544,389 | 6,883,553 |
| | PNH4500 | Non-Domestic, High density | Standard | 1 | 8,216 | | 365 | – | – | – | 1,403,499 | 1,854,243 | 2,543,489 | 2,414,357 |
| | PNH6500 | Non-Domestic, High density | Standard | 1 | 17,848 | | 365 | – | – | – | 2,783,778 | 4,366,791 | 5,431,561 | 5,266,247 |
| | PNL0003 | Non-Domestic, Low density | Standard | 120 | 238 | | 43,800 | 237,918 | – | – | – | – | – | – |
| | PNL0030 | Non-Domestic, Low density | Standard | 3,577 | 18,158 | | 1,305,605 | 16,651,798 | 1,490,964 | 15,226 | – | – | – | – |
| | PNL0100 | Non-Domestic, Low density | Standard | 100 | 4,416 | | 36,500 | 4,269,322 | 136,977 | 9,980 | – | – | – | – |
| | PNL0300 | Non-Domestic, Low density | Standard | 19 | 2,151 | | 6,935 | 2,150,673 | – | – | – | – | – | – |
| | PTL0300 | Non-Domestic, Low density | Standard | 1 | 111 | | 365 | – | – | – | 746 | 56,215 | 52,191 | 1,786 |
| | PNL0500 | Non-Domestic, Low density | Standard | 4 | 833 | | 1,460 | – | – | – | 145,599 | 207,357 | 274,535 | 205,687 |
| | PNL1000 | Non-Domestic, Low density | Standard | 1 | 1,066 | | 365 | – | – | – | 187,196 | 273,033 | 365,683 | 239,794 |
| 18 | PNL4500 | Non-Domestic, Low density | Standard | 1 | 12,403 | | 365 | – | – | – | 2,119,113 | 2,966,214 | 3,959,820 | 3,357,621 |
| 19 | PNL6500 | Non-Domestic, Low density | Standard | – | – | | – | – | – | – | – | – | – | – |
| 20 | PNG0500 | Generation | Standard | – | – | | – | – | – | – | – | – | – | – |
| 21 | PNG1000 | Generation (Gensets) | Standard | 6 | – | | 2,190 | – | – | – | – | – | – | – |
| 22 | PNG4500 | Generation | Standard | 1 | – | | 365 | – | – | – | – | – | – | – |
| 23 | PNG6500 | Generation (Waihi) | Standard | 1 | – | | 365 | – | – | – | – | – | – | – |
| 24 | Power Factor Charges | All Customers (If Required) | Standard | – | – | | – | – | – | – | – | – | – | – |
| 25 | *Add extra rows for additional consumer groups or price category codes as necessary* | | | | | | | | | | | | | |
| 26 | | | **Standard consumer totals** | 25,407 | 273,425 | | 9,273,555 | | | 357,965 | 12,442,383 | 18,190,340 | 23,715,125 | 21,163,388 |
| 27 | | | **Non-standard consumer totals** | – | – | | – | | | – | – | – | – | – |
| 28 | | | **Total for all consumers** | 25,407 | 273,425 | | 9,273,555 | | | 357,965 | 12,442,383 | 18,190,340 | 23,715,125 | 21,163,388 |

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

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-Network Name* | **Total Gisborne & Wairoa** |

## 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) | Line charge revenues ($000) by price component | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Price component | Fixed Component Only | Variable Uncontrolled (Mass Market) | Variable Controlled (Mass Market) | Variable Night (Mass Market) | Variable Evening Peak (TOU) | Variable Morning Peak (TOU) | Variable Off Peak (TOU) | Variable Night (TOU) |
| | | | | | | | Rate (eg, $ per day, $ per kWh, etc.) | $ per day | $ per kWh | $ per kWh | $ per kWh | $ per kWh | $ per kWh | $ per kWh | $ per kWh |
| PDH0030 | Domestic | Standard | $11,895 | – | $8,499 | $3,397 | | $792 | $9,210 | $1,893 | $0 | – | – | – | – |
| PDL0030 | Domestic | Standard | $6,086 | – | $4,332 | $1,754 | | $341 | $4,865 | $880 | $1 | – | – | – | – |
| PNH0003 | Non-Domestic, High density | Standard | $117 | – | $74 | $42 | | $21 | $96 | – | – | – | – | – | – |
| PNH0030 | Non-Domestic, High density | Standard | $3,541 | – | $2,311 | $1,231 | | $1,372 | $2,100 | $68 | $1 | – | – | – | – |
| PNH0100 | Non-Domestic, High density | Standard | $2,143 | – | $1,363 | $780 | | $712 | $1,410 | $16 | $4 | – | – | – | – |
| PNH0300 | Non-Domestic, High density | Standard | $1,157 | – | $742 | $414 | | $340 | $816 | – | – | – | – | – | – |
| PTH0300 | Non-Domestic, High density | Standard | $166 | – | $108 | $58 | | $56 | $17 | – | – | $22 | $29 | $30 | $11 |
| PNH0500 | Non-Domestic, High density | Standard | $481 | – | $314 | $168 | | $154 | – | – | – | $69 | $108 | $106 | $44 |
| PNH1000 | Non-Domestic, High density | Standard | $1,247 | – | $810 | $437 | | $305 | $1 | – | – | $218 | $285 | $298 | $140 |
| PNH4500 | Non-Domestic, High density | Standard | $362 | – | $233 | $128 | | $43 | – | – | – | $76 | $93 | $101 | $49 |
| PNH6500 | Non-Domestic, High density | Standard | $759 | – | $489 | $270 | | $61 | – | – | – | $151 | $222 | $217 | $108 |
| PNL0003 | Non-Domestic, Low density | Standard | $59 | – | $38 | $21 | | $19 | $40 | – | – | – | – | – | – |
| PNL0030 | Non-Domestic, Low density | Standard | $4,916 | – | $3,280 | $1,635 | | $2,986 | $1,823 | $107 | $0 | – | – | – | – |
| PNL0100 | Non-Domestic, Low density | Standard | $613 | – | $391 | $222 | | $251 | $354 | $7 | $0 | – | – | – | – |
| PNL0300 | Non-Domestic, Low density | Standard | $239 | – | $155 | $85 | | $96 | $143 | – | – | – | – | – | – |
| PTL0300 | Non-Domestic, Low density | Standard | $14 | – | $9 | $5 | | $9 | – | – | – | – | $3 | $2 | – |
| PNL0500 | Non-Domestic, Low density | Standard | $73 | – | $48 | $25 | | $38 | – | – | – | $8 | $11 | $11 | $5 |
| PNL1000 | Non-Domestic, Low density | Standard | $60 | – | $39 | $21 | | $15 | – | – | – | $11 | $14 | $15 | $5 |
| PNL4500 | Non-Domestic, Low density | Standard | $550 | – | $353 | $197 | | $37 | – | – | – | $119 | $156 | $164 | $74 |
| PNL6500 | Non-Domestic, Low density | Standard | – | – | – | – | | – | – | – | – | – | – | – | – |
| PNG0500 | Generation | Standard | – | – | – | – | | – | – | – | – | – | – | – | – |
| PNG1000 | Generation (Gensets) | Standard | $60 | – | $60 | – | | $60 | – | – | – | – | – | – | – |
| PNG4500 | Generation | Standard | $25 | – | $25 | – | | $25 | – | – | – | – | – | – | – |
| PNG6500 | Generation (Waihi) | Standard | $38 | – | $38 | – | | $38 | – | – | – | – | – | – | – |
| Power Factor Charges | All Customers (If Required) | Standard | – | – | – | – | | – | – | – | – | – | – | – | – |
| *Add extra rows for additional consumer groups or price category codes as necessary* | | | | | | | | | | | | | | | |
| | | **Standard consumer totals** | $34,599 | – | $23,710 | $10,890 | | $7,769 | | | $7 | $674 | $922 | $944 | $437 |
| | | **Non-standard consumer totals** | – | – | – | – | | – | | | – | – | – | – | – |
| | | **Total for all consumers** | $34,599 | – | $23,710 | $10,890 | | $7,769 | | | $7 | $674 | $922 | $944 | $437 |

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

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

| | | | |
|---|---|---|---|
| **Number of directly billed ICPs at year end** | 7 | **Check** | **Error** |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Ltd - All** |

## 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* | 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. | 15077 | 15752 | 675 | 1 |
| 10 | All | Overhead Line | Wood poles | No. | 18781 | 18564 | (217) | 1 |
| 11 | All | Overhead Line | Other pole types | No. | – | – | – | 4 |
| 12 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 336 | 336 | – | 1 |
| 13 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 307 | 307 | – | 1 |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 1 | 1 | – | 1 |
| 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. | 26 | 26 | – | 1 |
| 24 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | 3 | 3 | – | 1 |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | 4 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 46 | 45 | (1) | 1 |
| 27 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | 4 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 4 | 4 | – | 1 |
| 29 | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | 4 |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | 4 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 1 | 1 | – | 1 |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 100 | 100 | – | 1 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 7 | 7 | – | 1 |
| 34 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 51 | 51 | – | 1 |
| 35 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 2,398 | 2,396 | (2) | 1 |
| 36 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | 4 |
| 37 | HV | Distribution Line | SWER conductor | km | 1 | 1 | – | 1 |
| 38 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 29 | 31 | 2 | 1 |
| 39 | HV | Distribution Cable | Distribution UG PILC | km | 104 | 104 | – | 1 |
| 40 | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | 4 |
| 41 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 49 | 49 | – | 1 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | 22 | 22 | – | 1 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 4319 | 4318 | (1) | 1 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 88 | 80 | (8) | 1 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 252 | 259 | 7 | 1 |
| 46 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 3043 | 3032 | (11) | 1 |
| 47 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 578 | 574 | (4) | 1 |
| 48 | HV | Distribution Transformer | Voltage regulators | No. | 9 | 9 | – | 1 |
| 49 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | 4 |
| 50 | LV | LV Line | LV OH Conductor | km | 517 | 514 | (3) | 1 |
| 51 | LV | LV Cable | LV UG Cable | km | 261 | 263 | 2 | 1 |
| 52 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 21 | 21 | – | 1 |
| 53 | LV | Connections | OH/UG consumer service connections | No. | 31523 | 31370 | (153) | 1 |
| 54 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 200 | 203 | 3 | 1 |
| 55 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 745 | 792 | 47 | 1 |
| 56 | All | Capacitor Banks | Capacitors including controls | No | 1 | 1 | – | 3 |
| 57 | All | Load Control | Centralised plant | Lot | 8 | 8 | – | 1 |
| 58 | All | Load Control | Relays | No | 15604 | 15632 | 28 | 1 |
| 59 | All | Civils | Cable Tunnels | km | – | – | – | 4 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Ltd - Gisborne** |

## 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* | 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. | 12,442 | 12610 | 168 | 1 |
| 10 | All | Overhead Line | Wood poles | No. | 14,342 | 14153 | (189) | 1 |
| 11 | All | Overhead Line | Other pole types | No. | – | – | – | 4 |
| 12 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 269 | 269 | (0) | 1 |
| 13 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 180 | 180 | (0) | 1 |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 1 | 1 | (0) | 1 |
| 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. | 14 | 14 | – | 1 |
| 24 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | 3 | 3 | – | 1 |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | 4 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 44 | 43 | (1) | 1 |
| 27 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | 4 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | – | – | – | 1 |
| 29 | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | 4 |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | 4 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | – | – | – | 1 |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 86 | 86 | – | 1 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 5 | 5 | – | 1 |
| 34 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 32 | 32 | – | 1 |
| 35 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 1,717 | 1,715 | (2) | 1 |
| 36 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | 4 |
| 37 | HV | Distribution Line | SWER conductor | km | – | – | – | 1 |
| 38 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 26 | 28 | 2 | 1 |
| 39 | HV | Distribution Cable | Distribution UG PILC | km | 88 | 88 | (0) | 1 |
| 40 | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | 4 |
| 41 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 22 | 22 | – | 1 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | 22 | 22 | – | 1 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 2,993 | 2991 | (2) | 1 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 70 | 62 | (8) | 1 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 212 | 213 | 1 | 1 |
| 46 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 2,092 | 2086 | (6) | 1 |
| 47 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 458 | 454 | (4) | 1 |
| 48 | HV | Distribution Transformer | Voltage regulators | No. | 7 | 7 | – | 1 |
| 49 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | 4 |
| 50 | LV | LV Line | LV OH Conductor | km | 382 | 380 | (2) | 1 |
| 51 | LV | LV Cable | LV UG Cable | km | 212 | 213 | 1 | 1 |
| 52 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 21 | 21 | 0 | 1 |
| 53 | LV | Connections | OH/UG consumer service connections | No. | 25,128 | 25014 | (114) | 1 |
| 54 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 166 | 166 | – | 1 |
| 55 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 594 | 637 | 43 | 1 |
| 56 | All | Capacitor Banks | Capacitors including controls | No | 1 | 1 | – | 3 |
| 57 | All | Load Control | Centralised plant | Lot | 5 | 5 | – | 1 |
| 58 | All | Load Control | Relays | No | 15,436 | 15455 | 19 | 1 |
| 59 | All | Civils | Cable Tunnels | km | – | – | – | 4 |

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| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Ltd - Wairoa** |

## 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* | 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. | 2,833 | 3,142 | 309 | 1 |
| *10* | All | Overhead Line | Wood poles | No. | 4,222 | 4,411 | 189 | 1 |
| *11* | All | Overhead Line | Other pole types | No. | – | – | – | 4 |
| *12* | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 67 | 67 | 0 | 1 |
| *13* | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 127 | 127 | – | 1 |
| *14* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 0 | 0 | – | 1 |
| *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. | 12 | 12 | – | 1 |
| *24* | HV | Zone substation Buildings | Zone substations 110kV+ | No. | – | – | – | 1 |
| *25* | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | 4 |
| *26* | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 1 | 2 | 1 | 1 |
| *27* | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | 4 |
| *28* | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 4 | 4 | – | 1 |
| *29* | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | 4 |
| *30* | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | 4 |
| *31* | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 1 | 1 | – | 1 |
| *32* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 14 | 14 | – | 1 |
| *33* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 2 | 2 | – | 1 |
| *34* | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 19 | 19 | – | 1 |
| *35* | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 680 | 682 | 2 | 1 |
| *36* | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | 4 |
| *37* | HV | Distribution Line | SWER conductor | km | 1 | 1 | – | 1 |
| *38* | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 5 | 3 | (2) | 1 |
| *39* | HV | Distribution Cable | Distribution UG PILC | km | 16 | 16 | – | 1 |
| *40* | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | 4 |
| *41* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 27 | 27 | – | 1 |
| *42* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | 1 |
| *43* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 1,325 | 1,327 | 2 | 1 |
| *44* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 10 | 18 | 8 | 1 |
| *45* | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 47 | 46 | (1) | 1 |
| *46* | HV | Distribution Transformer | Pole Mounted Transformer | No. | 940 | 946 | 6 | 1 |
| *47* | HV | Distribution Transformer | Ground Mounted Transformer | No. | 116 | 120 | 4 | 1 |
| *48* | HV | Distribution Transformer | Voltage regulators | No. | 2 | 2 | – | 1 |
| *49* | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | 4 |
| *50* | LV | LV Line | LV OH Conductor | km | 132 | 134 | 2 | 1 |
| *51* | LV | LV Cable | LV UG Cable | km | 51 | 50 | (1) | 1 |
| *52* | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 1 | 1 | 0 | 1 |
| *53* | LV | Connections | OH/UG consumer service connections | No. | 6,242 | 6,356 | 114 | 1 |
| *54* | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 37 | 37 | – | 1 |
| *55* | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 198 | 155 | (43) | 1 |
| *56* | All | Capacitor Banks | Capacitors including controls | No | – | – | – | 4 |
| *57* | All | Load Control | Centralised plant | Lot | 3 | 3 | – | 1 |
| *58* | All | Load Control | Relays | No | 196 | 177 | (19) | 1 |
| *59* | All | Civils | Cable Tunnels | km | – | – | – | 4 |

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| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - ALL** |

## 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. | – | 1 | 88 | 249 | 1,846 | 3,212 | 2,845 | 495 | 1,401 | 782 | 239 | 271 | 368 | 238 | 221 | 387 | 410 | 423 | 412 | 439 | 361 | 382 | 389 | 260 | 33 | – | 15752 | – | 1 |
| 11 | All | Overhead Line | Wood poles | No. | 20 | 112 | 2,628 | 5,459 | 1,947 | 1,495 | 2,620 | 428 | 844 | 238 | 131 | 182 | 156 | 176 | 188 | 284 | 265 | 227 | 211 | 188 | 209 | 148 | 201 | 188 | 19 | – | 18564 | – | 1 |
| 12 | All | Overhead Line | Other pole types | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 13 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | – | – | 72 | 116 | 71 | 37 | 6 | 7 | 4 | 3 | 11 | – | 5 | 4 | 0 | 0 | – | – | – | – | 0 | – | 0 | 0 | – | – | 336 | – | 1 |
| 14 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 0 | 17 | 86 | 61 | 111 | 30 | 0 | 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | 307 | – | 1 |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | – | – | – | – | – | – | – | – | 0 | – | – | – | 1 | 1 | – | 0 | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 18 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 21 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 22 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 23 | HV | Subtransmission Cable | Subtransmission submarine cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 24 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | – | – | – | – | 1 | 10 | 7 | – | 2 | – | 1 | 1 | – | 1 | 1 | – | – | 1 | 1 | – | – | – | – | – | – | – | 26 | – | 1 |
| 25 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – | – | 3 | – | 1 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 27 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | – | – | – | – | 3 | 5 | 9 | 4 | 2 | 3 | 6 | 1 | – | – | 2 | 1 | – | 4 | 2 | 2 | 1 | – | – | – | – | – | 45 | – | 1 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 29 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | – | – | – | – | – | – | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 | – | 1 |
| 30 | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 32 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | 1 | – | 1 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | – | – | 1 | – | – | 29 | 9 | 9 | 5 | 18 | 6 | 4 | – | 7 | – | – | – | – | – | – | 12 | – | – | – | – | – | 100 | – | 1 |
| 34 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | – | – | – | – | – | – | 5 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 7 | – | 1 |
| 35 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | – | – | 10 | 9 | 1 | 8 | 5 | 10 | 2 | – | 2 | – | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | 51 | – | 1 |
| 36 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 65 | 86 | 530 | 890 | 350 | 204 | 173 | 11 | 7 | 11 | 4 | 8 | 9 | 7 | 9 | 3 | 1 | 4 | 3 | 2 | 4 | 2 | 8 | 4 | 0 | – | 2396 | – | 1 |
| 37 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 38 | HV | Distribution Line | SWER conductor | km | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 |
| 39 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | – | – | 0 | 1 | 3 | 6 | 6 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | – | 31 | – | 1 |
| 40 | HV | Distribution Cable | Distribution UG PILC | km | – | – | 1 | 9 | 13 | 27 | 25 | 2 | 5 | 4 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | – | – | – | 104 | – | 1 |
| 41 | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | – | – | – | 1 | 5 | 9 | 18 | 12 | 1 | – | 1 | – | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | 49 | – | 1 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | – | 7 | – | – | – | – | 15 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 22 | – | 1 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | – | – | 229 | 842 | 722 | 439 | 465 | 55 | 122 | 139 | 135 | 120 | 84 | 112 | 95 | 82 | 113 | 108 | 104 | 65 | 75 | 93 | 76 | 41 | 1 | 1 | 4318 | – | 1 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | – | – | – | – | 3 | 7 | 19 | 8 | 17 | 6 | 9 | 1 | – | 5 | 4 | – | – | 1 | – | – | – | – | – | – | – | – | 80 | – | 1 |
| 46 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | – | – | – | 1 | 4 | 7 | 66 | 14 | 36 | 18 | 15 | 7 | 6 | 17 | 9 | 8 | 7 | 5 | 6 | 4 | 8 | 6 | 9 | 6 | – | – | 259 | – | 1 |
| 47 | HV | Distribution Transformer | Pole Mounted Transformer | No. | – | – | 93 | 623 | 505 | 358 | 411 | 52 | 100 | 58 | 99 | 95 | 71 | 83 | 45 | 45 | 63 | 61 | 58 | 50 | 66 | 49 | 40 | 7 | – | – | 3032 | – | 1 |
| 48 | HV | Distribution Transformer | Ground Mounted Transformer | No. | – | – | 15 | 55 | 47 | 34 | 41 | 27 | 55 | 25 | 28 | 33 | 25 | 21 | 29 | 16 | 13 | 23 | 16 | 22 | 18 | 16 | 9 | 6 | – | – | 574 | – | 1 |
| 49 | HV | Distribution Transformer | Voltage regulators | No. | – | – | – | 5 | – | 3 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 9 | – | 1 |
| 50 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 51 | LV | LV Line | LV OH Conductor | km | 7 | 33 | 113 | 166 | 70 | 53 | 51 | 2 | 7 | 4 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | – | – | 514 | – | 1 |
| 52 | LV | LV Cable | LV UG Cable | km | 0 | 0 | 3 | 22 | 42 | 63 | 38 | 7 | 16 | 14 | 8 | 5 | 5 | 4 | 7 | 6 | 5 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | – | – | 263 | – | 1 |
| 53 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | – | – | 1 | 1 | 2 | 6 | 6 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | – | – | 0 | 0 | 0 | 0 | 0 | 0 | 0 | – | 22 | – | 1 |
| 54 | LV | Connections | OH/UG consumer service connections | No. | – | 71 | 1,683 | 6,637 | 5,594 | 6,378 | 5,500 | 411 | 690 | 756 | 752 | 539 | 382 | 416 | 387 | 386 | 254 | 107 | 115 | 95 | 118 | 99 | – | – | – | – | 31370 | – | 1 |
| 55 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | – | – | – | – | 10 | 25 | 34 | 13 | 25 | 3 | 8 | 7 | 6 | 10 | 10 | 2 | – | – | 2 | – | 23 | 4 | 2 | 19 | – | – | 203 | – | 1 |
| 56 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | – | – | – | 1 | – | 27 | 131 | 53 | 51 | 26 | 38 | 32 | 38 | 20 | 14 | 14 | 15 | 14 | 11 | 14 | 20 | 150 | 101 | 15 | 7 | – | 792 | – | 1 |
| 57 | All | Capacitor Banks | Capacitors including controls | No | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 |
| 58 | All | Load Control | Centralised plant | Lot | – | – | – | – | 5 | 2 | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | 8 | – | 1 |
| 59 | All | Load Control | Relays | No | 5 | – | – | – | 1 | – | 138 | 136 | 736 | 943 | 979 | 425 | 718 | 549 | 874 | 31 | 59 | 29 | 57 | 42 | 29 | 48 | 48 | 9 | 2 | 9,774 | 15632 | – | 1 |
| 60 | All | Civils | Cable Tunnels | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |

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| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - Gisborne** |

## 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. | – | 1 | 23 | 40 | 1,423 | 2,275 | 2,662 | 348 | 1,025 | 573 | 155 | 193 | 300 | 185 | 191 | 330 | 359 | 410 | 402 | 431 | 332 | 356 | 343 | 228 | 25 | – | 12610 | – | 1 |
| 11 | All | Overhead Line | Wood poles | No. | 2 | 30 | 1,607 | 4,807 | 1,460 | 1,116 | 2,011 | 131 | 592 | 175 | 88 | 121 | 102 | 103 | 127 | 267 | 173 | 216 | 190 | 162 | 167 | 131 | 184 | 181 | 10 | – | 14153 | – | 1 |
| 12 | All | Overhead Line | Other pole types | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 13 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | – | – | 72 | 116 | 37 | 5 | 6 | 7 | 4 | 3 | 11 | – | 5 | 4 | 0 | 0 | – | – | – | – | 0 | – | 0 | 0 | – | – | 269.30073 | – | 1 |
| 14 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 0 | 17 | 29 | 61 | 49 | 23 | 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | 180.38147 | – | 1 |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | 0 | – | – | – | – | – | – | – | – | – | – | 1.344625 | – | 1 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 18 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 21 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 22 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 23 | HV | Subtransmission Cable | Subtransmission submarine cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 24 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | – | – | – | – | 1 | 3 | 4 | – | 2 | – | 1 | 1 | – | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | 14 | – | 1 |
| 25 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – | – | 3 | – | 1 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 27 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | – | – | – | – | 3 | 5 | 9 | 2 | 2 | 3 | 6 | 1 | – | – | 2 | 1 | – | 4 | 2 | 2 | 1 | – | – | – | – | – | 43 | – | 1 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 29 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 1 |
| 30 | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 32 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 1 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | – | – | – | – | – | 19 | 9 | 9 | 5 | 18 | 6 | 4 | – | 4 | – | – | – | – | – | – | 12 | – | – | – | – | – | 86 | – | 1 |
| 34 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | – | – | – | – | – | – | 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 5 | – | 1 |
| 35 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | – | – | 8 | 7 | 1 | 2 | 5 | 2 | 2 | – | 2 | – | – | – | 3 | – | – | – | – | – | – | – | – | – | – | – | 32 | – | 1 |
| 36 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | – | 6 | 322 | 706 | 305 | 141 | 168 | 11 | 5 | 7 | 2 | 2 | 6 | 4 | 3 | 2 | 1 | 4 | 3 | 2 | 3 | 1 | 7 | 3 | – | – | 1714.6213 | – | 1 |
| 37 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 38 | HV | Distribution Line | SWER conductor | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 1 |
| 39 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | – | – | 0 | 0 | 3 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | – | 27.556372 | – | 1 |
| 40 | HV | Distribution Cable | Distribution UG PILC | km | – | – | 1 | 8 | 10 | 21 | 23 | 2 | 5 | 4 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | – | – | – | 88.246229 | – | 1 |
| 41 | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | – | – | – | 1 | 1 | 1 | 8 | 10 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 22 | – | 1 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | – | 7 | – | – | – | – | 15 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 22 | – | 1 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | – | – | 207 | 506 | 480 | 269 | 316 | 41 | 96 | 95 | 82 | 72 | 63 | 80 | 72 | 63 | 90 | 94 | 77 | 49 | 50 | 83 | 68 | 38 | – | – | 2991 | – | 1 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | – | – | – | – | 3 | 3 | 17 | 8 | 13 | 6 | 7 | 1 | – | 1 | 2 | – | – | 1 | – | – | – | – | – | – | – | – | 62 | – | 1 |
| 46 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | – | – | – | 1 | 3 | 1 | 56 | 14 | 29 | 18 | 8 | 6 | 6 | 12 | 6 | 8 | 6 | 5 | 6 | 3 | 6 | 6 | 8 | 5 | – | – | 213 | – | 1 |
| 47 | HV | Distribution Transformer | Pole Mounted Transformer | No. | – | – | 84 | 349 | 346 | 240 | 287 | 41 | 81 | 40 | 62 | 57 | 52 | 64 | 39 | 35 | 57 | 49 | 44 | 39 | 44 | 41 | 31 | 4 | – | – | 2086 | – | 1 |
| 48 | HV | Distribution Transformer | Ground Mounted Transformer | No. | – | – | 15 | 36 | 39 | 24 | 32 | 23 | 50 | 22 | 21 | 26 | 16 | 15 | 20 | 14 | 12 | 20 | 16 | 16 | 11 | 13 | 8 | 5 | – | – | 454 | – | 1 |
| 49 | HV | Distribution Transformer | Voltage regulators | No. | – | – | – | 4 | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 7 | – | 1 |
| 50 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| 51 | LV | LV Line | LV OH Conductor | km | 0 | 2 | 70 | 136 | 60 | 44 | 49 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | – | – | 380.04552 | – | 1 |
| 52 | LV | LV Cable | LV UG Cable | km | – | – | 1 | 18 | 31 | 47 | 30 | 7 | 16 | 14 | 7 | 4 | 4 | 3 | 5 | 5 | 5 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | – | – | 212.9654 | – | 1 |
| 53 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | – | – | 1 | 1 | 2 | 5 | 6 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | – | – | 0 | 0 | 0 | 0 | 0 | 0 | 0 | – | 20.995931 | – | 1 |
| 54 | LV | Connections | OH/UG consumer service connections | No. | – | 71 | 1,667 | 4,859 | 4,497 | 4,917 | 4,682 | 340 | 607 | 589 | 384 | 360 | 302 | 358 | 326 | 327 | 228 | 102 | 111 | 84 | 112 | 91 | – | – | – | – | 25014 | – | 1 |
| 55 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | – | – | – | – | 9 | 15 | 26 | 11 | 18 | 3 | 7 | 7 | 3 | 10 | 9 | 2 | – | – | 1 | – | 23 | 4 | 2 | 16 | – | – | 166 | – | 1 |
| 56 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | – | – | – | 1 | – | 22 | 100 | 39 | 24 | 22 | 30 | 31 | 18 | 17 | 13 | 10 | 13 | 14 | 8 | 9 | 18 | 133 | 97 | 15 | 3 | – | 637 | – | 1 |
| 57 | All | Capacitor Banks | Capacitors including controls | No | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 |
| 58 | All | Load Control | Centralised plant | Lot | – | – | – | – | 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 5 | – | 1 |
| 59 | All | Load Control | Relays | No | 5 | – | – | – | 1 | – | 136 | 136 | 731 | 939 | 965 | 412 | 710 | 540 | 870 | 31 | 59 | 29 | 56 | 42 | 28 | 48 | 47 | 9 | 2 | 9,659 | 15455 | – | 1 |
| 60 | All | Civils | Cable Tunnels | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - Wairoa** |

## 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. | – | – | 65 | 209 | 423 | 937 | 183 | 147 | 376 | 209 | 84 | 78 | 68 | 53 | 30 | 57 | 51 | 13 | 10 | 8 | 29 | 26 | 46 | 32 | 8 | – | 3142 | – | 1 |
| *11* | All | Overhead Line | Wood poles | No. | 18 | 82 | 1,021 | 652 | 487 | 379 | 609 | 297 | 252 | 63 | 43 | 61 | 54 | 73 | 61 | 17 | 92 | 11 | 21 | 26 | 42 | 17 | 17 | 7 | 9 | – | 4411 | – | 1 |
| *12* | All | Overhead Line | Other pole types | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *13* | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | – | – | – | – | 34 | 32 | – | – | 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 66.660611 | – | 1 |
| *14* | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | – | 0 | 57 | – | 63 | 7 | – | 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 126.68756 | – | 1 |
| *15* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | – | – | – | – | – | – | – | – | 0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0.065236 | – | 1 |
| *16* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *17* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *18* | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *19* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *20* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *21* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *22* | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *23* | HV | Subtransmission Cable | Subtransmission submarine cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *24* | HV | Zone substation Buildings | Zone substations up to 66kV | No. | – | – | – | – | – | 7 | 3 | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | – | – | – | – | – | – | 12 | – | 1 |
| *25* | HV | Zone substation Buildings | Zone substations 110kV+ | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 1 |
| *26* | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *27* | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 1 |
| *28* | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *29* | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | – | – | – | – | – | – | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 | – | 1 |
| *30* | HV | Zone substation switchgear | 33kV RMU | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *31* | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *32* | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | 1 | – | 1 |
| *33* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | – | – | 1 | – | – | 10 | – | – | – | – | – | – | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | 14 | – | 1 |
| *34* | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 1 |
| *35* | HV | Zone Substation Transformer | Zone Substation Transformers | No. | – | – | 2 | 2 | – | 6 | – | 8 | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | 19 | – | 1 |
| *36* | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 65 | 81 | 209 | 184 | 45 | 63 | 5 | – | 3 | 3 | 2 | 6 | 3 | 2 | 6 | 1 | – | 1 | – | 0 | 1 | 0 | 1 | 1 | 0 | – | 681.74499 | – | 1 |
| *37* | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *38* | HV | Distribution Line | SWER conductor | km | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0.7193 | – | 1 |
| *39* | HV | Distribution Cable | Distribution UG XLPE or PVC | km | – | – | – | 0 | – | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | – | 0 | – | 0 | 0 | 0 | 0 | – | – | – | 3.259198 | – | 1 |
| *40* | HV | Distribution Cable | Distribution UG PILC | km | – | – | – | 1 | 3 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | – | – | – | – | 0 | – | – | – | – | – | 15.528954 | – | 1 |
| *41* | HV | Distribution Cable | Distribution Submarine Cable | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *42* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | – | – | – | – | 4 | 8 | 10 | 2 | 1 | – | – | – | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | 27 | – | 1 |
| *43* | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | 0 | – | 1 |
| *44* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | – | – | 22 | 336 | 242 | 170 | 149 | 14 | 26 | 44 | 53 | 48 | 21 | 32 | 23 | 19 | 23 | 14 | 27 | 16 | 25 | 10 | 8 | 3 | 1 | 1 | 1327 | – | 1 |
| *45* | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | – | – | – | – | – | 4 | 2 | – | 4 | – | 2 | – | – | 4 | 2 | – | – | – | – | – | – | – | – | – | – | – | 18 | – | 1 |
| *46* | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | – | – | – | – | 1 | 6 | 10 | – | 7 | – | 7 | 1 | – | 5 | 3 | – | 1 | – | – | 1 | 2 | – | 1 | 1 | – | – | 46 | – | 1 |
| *47* | HV | Distribution Transformer | Pole Mounted Transformer | No. | – | – | 9 | 274 | 159 | 118 | 124 | 11 | 19 | 18 | 37 | 38 | 19 | 19 | 6 | 10 | 6 | 12 | 14 | 11 | 22 | 8 | 9 | 3 | – | – | 946 | – | 1 |
| *48* | HV | Distribution Transformer | Ground Mounted Transformer | No. | – | – | – | 19 | 8 | 10 | 9 | 4 | 5 | 3 | 7 | 7 | 9 | 6 | 9 | 2 | 1 | 3 | – | 6 | 7 | 3 | 1 | 1 | – | – | 120 | – | 1 |
| *49* | HV | Distribution Transformer | Voltage regulators | No. | – | – | – | 1 | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 1 |
| *50* | HV | Distribution Substations | Ground Mounted Substation Housing | No. | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |
| *51* | LV | LV Line | LV OH Conductor | km | 7 | 31 | 43 | 30 | 9 | 9 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | – | – | 0 | – | – | – | 0 | 1 | 0 | – | – | 134.4486 | – | 1 |
| *52* | LV | LV Cable | LV UG Cable | km | 0 | 0 | 1 | 4 | 11 | 17 | 7 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | – | – | 49.551032 | – | 1 |
| *53* | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | – | – | – | 0 | 0 | 0 | – | – | 0 | – | 0 | – | 0 | 0 | – | 0 | – | – | – | – | – | – | – | – | – | – | 0.67152 | – | 1 |
| *54* | LV | Connections | OH/UG consumer service connections | No. | – | – | 16 | 1,778 | 1,097 | 1,461 | 818 | 71 | 83 | 167 | 368 | 179 | 80 | 58 | 61 | 59 | 26 | 5 | 4 | 11 | 6 | 8 | – | – | – | – | 6356 | – | 1 |
| *55* | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | – | – | – | – | 1 | 10 | 8 | 2 | 7 | – | 1 | – | 3 | – | 1 | – | – | – | 1 | – | – | – | – | 3 | – | – | 37 | – | 1 |
| *56* | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | – | – | – | – | – | 5 | 31 | 14 | 27 | 4 | 8 | 1 | 20 | 3 | 1 | 4 | 2 | – | 3 | 5 | 2 | 17 | 4 | – | 4 | – | 155 | – | 1 |
| *57* | All | Capacitor Banks | Capacitors including controls | No | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 1 |
| *58* | All | Load Control | Centralised plant | Lot | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | 3 | – | 1 |
| *59* | All | Load Control | Relays | No | – | – | – | – | – | – | 2 | – | 5 | 4 | 14 | 13 | 8 | 9 | 4 | – | – | – | 1 | – | 1 | – | 1 | – | 115 | 177 | – | 1 |
| *60* | All | Civils | Cable Tunnels | km | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0 | – | 4 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - ALL** |

## 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 | 307 | – | 307 |
| 12 | 50kV & 66kV | 301 | 1 | 302 |
| 13 | 33kV | 34 | 0 | 34 |
| 14 | SWER (all SWER voltages) | 1 | – | 1 |
| 15 | 22kV (other than SWER) | – | – | – |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 2,397 | 135 | 2,531 |
| 17 | Low voltage (< 1kV) | 514 | 263 | 777 |
| 18 | **Total circuit length (for supply)** | 3,553 | 399 | 3,952 |
| 19 | | | | |
| 20 | Dedicated street lighting circuit length (km) | 13 | 8 | 21 |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | | 1,000 |
| 22 | | | | |
| 23 | **Overhead circuit length by terrain (at year end)** | **Circuit length (km)** | **(% of total overhead length)** | |
| 24 | Urban | 191 | 5% | |
| 25 | Rural | 1,718 | 48% | |
| 26 | Remote only | 376 | 11% | |
| 27 | Rugged only | 989 | 28% | |
| 28 | Remote and rugged | 280 | 8% | |
| 29 | Unallocated overhead lines | – | – | |
| 30 | **Total overhead length** | 3,553 | 100% | |
| 31 | | | | |
| 32 | | **Circuit length (km)** | **(% of total circuit length)** | |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 1,657 | 42% | |
| 34 | | **Circuit length (km)** | **(% of total overhead length)** | |
| 35 | Overhead circuit requiring vegetation management | 3,553 | 100% | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - GIS** |

## 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 | 180 | – | 180 |
| 12 | 50kV & 66kV | 268 | 1 | 270 |
| 13 | 33kV | – | – | – |
| 14 | SWER (all SWER voltages) | – | – | – |
| 15 | 22kV (other than SWER) | – | – | – |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 1,715 | 116 | 1,830 |
| 17 | Low voltage (< 1kV) | 380 | 213 | 593 |
| 18 | **Total circuit length (for supply)** | 2,543 | 330 | 2,873 |
| 19 | | | | |
| 20 | Dedicated street lighting circuit length (km) | 13 | 8 | 21 |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | | 700 |
| 22 | | | | |
| 23 | **Overhead circuit length by terrain (at year end)** | **Circuit length (km)** | **(% of total overhead length)** | |
| 24 | Urban | 168 | 7% | |
| 25 | Rural | 1,353 | 53% | |
| 26 | Remote only | 292 | 11% | |
| 27 | Rugged only | 614 | 24% | |
| 28 | Remote and rugged | 116 | 5% | |
| 29 | Unallocated overhead lines | – | – | |
| 30 | **Total overhead length** | 2,543 | 100% | |
| 31 | | | | |
| 32 | | **Circuit length (km)** | **(% of total circuit length)** | |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 1,329 | 46% | |
| 34 | | **Circuit length (km)** | **(% of total overhead length)** | |
| 35 | Overhead circuit requiring vegetation management | 2,543 | 100% | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - WRA** |

## 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 | 126 | – | 126 |
| 12 | 50kV & 66kV | 32 | – | 32 |
| 13 | 33kV | 34 | 0 | 34 |
| 14 | SWER (all SWER voltages) | 1 | – | 1 |
| 15 | 22kV (other than SWER) | – | – | – |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 682 | 19 | 701 |
| 17 | Low voltage (< 1kV) | 134 | 50 | 184 |
| 18 | **Total circuit length (for supply)** | 1,010 | 69 | 1,079 |
| 19 | | | | |
| 20 | Dedicated street lighting circuit length (km) | 0 | 0 | 1 |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | | 300 |
| 22 | | | | |
| 23 | **Overhead circuit length by terrain (at year end)** | **Circuit length (km)** | **(% of total overhead length)** | |
| 24 | Urban | 23 | 2% | |
| 25 | Rural | 365 | 36% | |
| 26 | Remote only | 84 | 8% | |
| 27 | Rugged only | 374 | 37% | |
| 28 | Remote and rugged | 164 | 16% | |
| 29 | Unallocated overhead lines | – | – | |
| 30 | **Total overhead length** | 1,010 | 100% | |
| 31 | | | | |
| 32 | | **Circuit length (km)** | **(% of total circuit length)** | |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 328 | 30% | |
| 34 | | **Circuit length (km)** | **(% of total overhead length)** | |
| 35 | Overhead circuit requiring vegetation management | 1,010 | 100% | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *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*

| | Location * | Number of ICPs served | Line charge revenue ($000) |
|---|---|---|---|
| 8 | | | |
| 9 | | | |
| 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* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - ALL** |

# 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*

## 9e(i): Consumer Connections

*Number of ICPs connected in year by consumer type*

| *Consumer types defined by EDB** | Number of connections (ICPs) |
|---|---|
| Domestic/Residential | 19447 |
| Commercial | 5944 |
| Large Commercial | 59 |
| Industrial | 5 |
| [EDB consumer type] | 0 |
| **Connections total** | 25,455 |

** include additional rows if needed*

### Distributed generation

| | | |
|---|---|---|
| Number of connections made in year | 74 | **connections** |
| Capacity of distributed generation installed in year | 0.29 | **MVA** |

## 9e(ii): System Demand

| | | Demand at time of maximum coincident demand (MW) | |
|---|---|---|---|
| | **Maximum coincident system demand** | | |
| | GXP demand | 58 | |
| *plus* | Distributed generation output at HV and above | 0 | |
| | **Maximum coincident system demand** | 59 | |
| *less* | Net transfers to (from) other EDBs at HV and above | 0 | |
| | **Demand on system for supply to consumers' connection points** | 59 | |

| | | Energy (GWh) | |
|---|---|---|---|
| | **Electricity volumes carried** | | |
| | Electricity supplied from GXPs | 284.2 | |
| *less* | Electricity exports to GXPs | 0 | |
| *plus* | Electricity supplied from distributed generation | 17.5 | |
| *less* | Net electricity supplied to (from) other EDBs | 0 | |
| | **Electricity entering system for supply to consumers' connection points** | 302 | |
| *less* | Total energy delivered to ICPs | 273 | |
| | **Electricity losses (loss ratio)** | 28 | 9.4% |
| | **Load factor** | 0.59 | |

## 9e(iii): Transformer Capacity

| | (MVA) |
|---|---|
| Distribution transformer capacity (EDB owned) | 224 |
| Distribution transformer capacity (Non-EDB owned, estimated) | 37 |
| **Total distribution transformer capacity** | 261 |
| **Zone substation transformer capacity** | 323 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - GIS** |

# 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*

## 9e(i): Consumer Connections

*Number of ICPs connected in year by consumer type*

| *Consumer types defined by EDB** | Number of connections (ICPs) |
|---|---|
| Domestic/Residential | 16286 |
| Commercial | 4320 |
| Large Commercial | 47 |
| Industrial | 4 |
| [EDB consumer type] | 0 |
| **Connections total** | 20,657 |

** include additional rows if needed*

### Distributed generation

| | | |
|---|---|---|
| Number of connections made in year | 70 | **connections** |
| Capacity of distributed generation installed in year | 0.22 | **MVA** |

## 9e(ii): System Demand

| | | Demand at time of maximum coincident demand (MW) | |
|---|---|---|---|
| | **Maximum coincident system demand** | | |
| | GXP demand | 50 | |
| *plus* | Distributed generation output at HV and above | 0 | |
| | **Maximum coincident system demand** | 50 | |
| *less* | Net transfers to (from) other EDBs at HV and above | 0 | |
| | **Demand on system for supply to consumers' connection points** | 50 | |

| | | Energy (GWh) | |
|---|---|---|---|
| | **Electricity volumes carried** | | |
| | Electricity supplied from GXPs | 241 | |
| *less* | Electricity exports to GXPs | 0 | |
| *plus* | Electricity supplied from distributed generation | 7 | |
| *less* | Net electricity supplied to (from) other EDBs | 0 | |
| | **Electricity entering system for supply to consumers' connection points** | 249 | |
| *less* | Total energy delivered to ICPs | 273 | |
| | **Electricity losses (loss ratio)** | (25) | (9.9%) |
| | **Load factor** | 0.56 | |

## 9e(iii): Transformer Capacity

| | (MVA) |
|---|---|
| Distribution transformer capacity (EDB owned) | 178 |
| Distribution transformer capacity (Non-EDB owned, estimated) | 28 |
| **Total distribution transformer capacity** | 206 |
| **Zone substation transformer capacity** | 272 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - WRA** |

# 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*

## 9e(i): Consumer Connections

*Number of ICPs connected in year by consumer type*

| *Consumer types defined by EDB** | Number of connections (ICPs) |
|---|---|
| Domestic/Residential | 3161 |
| Commercial | 1624 |
| Large Commercial | 12 |
| Industrial | 1 |
| [EDB consumer type] | 0 |
| **Connections total** | 4,798 |

** include additional rows if needed*

### Distributed generation

| | | |
|---|---|---|
| Number of connections made in year | 4 | **connections** |
| Capacity of distributed generation installed in year | 0.07 | **MVA** |

## 9e(ii): System Demand

| | | Demand at time of maximum coincident demand (MW) | |
|---|---|---|---|
| | **Maximum coincident system demand** | | |
| | GXP demand | 8 | |
| *plus* | Distributed generation output at HV and above | 0 | |
| | **Maximum coincident system demand** | 8 | |
| *less* | Net transfers to (from) other EDBs at HV and above | 0 | |
| | **Demand on system for supply to consumers' connection points** | 8 | |

| | | Energy (GWh) | |
|---|---|---|---|
| | **Electricity volumes carried** | | |
| | Electricity supplied from GXPs | 43 | |
| *less* | Electricity exports to GXPs | 0 | |
| *plus* | Electricity supplied from distributed generation | 10 | |
| *less* | Net electricity supplied to (from) other EDBs | 0 | |
| | **Electricity entering system for supply to consumers' connection points** | 53 | |
| *less* | Total energy delivered to ICPs | 48 | |
| | **Electricity losses (loss ratio)** | 5 | 9.4% |
| | **Load factor** | 0.78 | |

## 9e(iii): Transformer Capacity

| | (MVA) |
|---|---|
| Distribution transformer capacity (EDB owned) | 46 |
| Distribution transformer capacity (Non-EDB owned, estimated) | 9 |
| **Total distribution transformer capacity** | 55 |
| **Zone substation transformer capacity** | 51 |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - ALL** |

## 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*

### 10(i): Interruptions

**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) | 273 |
| 13 | Class D (unplanned interruptions by Transpower) | – |
| 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) | 1 |
| 17 | Class H (planned interruptions caused by another disclosing entity) | 1 |
| 18 | Class I (interruptions caused by parties not included above) | 4 |
| 19 | **Total** | 486 |

**Interruption restoration**

| | | ≤3Hrs | >3hrs |
|---|---|---|---|
| 22 | Class C interruptions restored within | 161 | 111 |

**SAIFI and SAIDI by class**

| | | SAIFI | SAIDI |
|---|---|---|---|
| 25 | Class A (planned interruptions by Transpower) | – | – |
| 26 | Class B (planned interruptions on the network) | 0.98 | 195.67 |
| 27 | Class C (unplanned interruptions on the network) | 3.54 | 1,727.84 |
| 28 | Class D (unplanned interruptions by Transpower) | 2.01 | 241.13 |
| 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) | 0.05 | 0.87 |
| 32 | Class H (planned interruptions caused by another disclosing entity) | 0.01 | 2.86 |
| 33 | Class I (interruptions caused by parties not included above) | 0.03 | 1.51 |
| 34 | **Total** | 6.62 | 2,169.9 |

**Normalised SAIFI and SAIDI**

| | | Normalised SAIFI | Normalised SAIDI |
|---|---|---|---|
| 37 | Classes B & C (interruptions on the network) | 3.10 | 270.90 |

**Quality path normalised reliability limit**

| | | SAIFI reliability limit | SAIDI reliability limit |
|---|---|---|---|
| 40 | SAIFI and SAIDI limits applicable to disclosure year* | 3.77 | 285.78 |

** not applicable to exempt EDBs*

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - ALL** |

## 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.

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

| Cause | SAIFI | SAIDI |
|---|---|---|
| Lightning | 0.01 | 1.26 |
| Vegetation | 0.31 | 36.75 |
| Adverse weather | 0.23 | 78.62 |
| Adverse environment | 0.04 | 1.16 |
| Third party interference | 1.21 | 1,523.35 |
| Wildlife | 0.17 | 8.96 |
| Human error | – | – |
| Defective equipment | 0.86 | 59.55 |
| Cause unknown | 0.70 | 18.18 |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | 0.68 | 148.44 |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 0.25 | 42.36 |
| Distribution cables (excluding LV) | 0.05 | 4.79 |
| Distribution other (excluding LV) | – | – |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | 1.28 | 1,508.35 |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 2.20 | 217.22 |
| Distribution cables (excluding LV) | 0.05 | 2.27 |
| Distribution other (excluding LV) | – | – |

### 10(v): Fault Rate

| Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|---|---|---|---|
| Subtransmission lines | 11 | 641 | 1.71 |
| Subtransmission cables | – | 1 | – |
| Subtransmission other | – | | |
| Distribution lines (excluding LV) | 254 | 2,399 | 10.59 |
| Distribution cables (excluding LV) | 8 | 133 | 6.03 |
| Distribution other (excluding LV) | – | | |
| **Total** | 273 | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - GIS** |

# 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*

## 10(i): Interruptions

### Interruptions by class

| | | Number of interruptions |
|---|---|---|
| 10 | Class A (planned interruptions by Transpower) | – |
| 11 | Class B (planned interruptions on the network) | 175 |
| 12 | Class C (unplanned interruptions on the network) | 210 |
| 13 | Class D (unplanned interruptions by Transpower) | – |
| 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) | 3 |
| 19 | **Total** | 388 |

### Interruption restoration

| | | ≤3Hrs | >3hrs |
|---|---|---|---|
| 22 | Class C interruptions restored within | 125 | 84 |

### SAIFI and SAIDI by class

| | | SAIFI | SAIDI |
|---|---|---|---|
| 25 | Class A (planned interruptions by Transpower) | – | – |
| 26 | Class B (planned interruptions on the network) | 1.17 | 232.47 |
| 27 | Class C (unplanned interruptions on the network) | 3.48 | 2,015.50 |
| 28 | Class D (unplanned interruptions by Transpower) | 2.46 | 293.98 |
| 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) | 0.03 | 1.56 |
| 34 | **Total** | 7.15 | 2,543.5 |

### Normalised SAIFI and SAIDI

| | | Normalised SAIFI | Normalised SAIDI |
|---|---|---|---|
| 37 | Classes B & C (interruptions on the network) | 3.03 | 299.12 |

### Quality path normalised reliability limit

| | | SAIFI reliability limit | SAIDI reliability limit |
|---|---|---|---|
| 40 | SAIFI and SAIDI limits applicable to disclosure year* | N/A | N/A |

** not applicable to exempt EDBs*

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

| Cause | SAIFI | SAIDI |
|---|---|---|
| Lightning | 0.00 | 0.41 |
| Vegetation | 0.31 | 35.02 |
| Adverse weather | 0.15 | 29.23 |
| Adverse environment | 0.04 | 0.90 |
| Third party interference | 1.45 | 1,869.75 |
| Wildlife | 0.16 | 6.01 |
| Human error | – | – |
| Defective equipment | 0.70 | 54.83 |
| Cause unknown | 0.67 | 19.35 |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | 0.84 | 182.98 |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 0.27 | 44.84 |
| Distribution cables (excluding LV) | 0.06 | 4.55 |
| Distribution other (excluding LV) | – | – |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | 1.32 | 1,852.80 |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 2.11 | 160.58 |
| Distribution cables (excluding LV) | 0.06 | 2.13 |
| Distribution other (excluding LV) | – | – |

## 10(v): Fault Rate

| Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|---|---|---|---|
| Subtransmission lines | 6 | 448 | 1.34 |
| Subtransmission cables | – | 1 | – |
| Subtransmission other | – | | |
| Distribution lines (excluding LV) | 198 | 1,717 | 11.53 |
| Distribution cables (excluding LV) | 6 | 114 | 5.27 |
| Distribution other (excluding LV) | – | | |
| **Total** | 210 | | |

| | |
|---|---|
| *Company Name* | **Eastland Network Limited** |
| *For Year Ended* | **31 March 2017** |
| *Network / Sub-network Name* | **Eastland Network Limited - WRA** |

# 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*

## 10(i): Interruptions

| | Number of interruptions |
|---|---|
| **Interruptions by class** | |
| Class A (planned interruptions by Transpower) | – |
| Class B (planned interruptions on the network) | 32 |
| Class C (unplanned interruptions on the network) | 63 |
| Class D (unplanned interruptions by Transpower) | – |
| Class E (unplanned interruptions of EDB owned generation) | – |
| Class F (unplanned interruptions of generation owned by others) | – |
| Class G (unplanned interruptions caused by another disclosing entity) | 1 |
| Class H (planned interruptions caused by another disclosing entity) | 1 |
| Class I (interruptions caused by parties not included above) | 1 |
| **Total** | 98 |

| | ≤3Hrs | >3hrs |
|---|---|---|
| **Interruption restoration** | | |
| Class C interruptions restored within | 36 | 27 |

| | SAIFI | SAIDI |
|---|---|---|
| **SAIFI and SAIDI by class** | | |
| Class A (planned interruptions by Transpower) | – | – |
| Class B (planned interruptions on the network) | 0.18 | 37.52 |
| Class C (unplanned interruptions on the network) | 3.76 | 491.75 |
| Class D (unplanned interruptions by Transpower) | 0.07 | 13.76 |
| Class E (unplanned interruptions of EDB owned generation) | – | – |
| Class F (unplanned interruptions of generation owned by others) | – | – |
| Class G (unplanned interruptions caused by another disclosing entity) | 0.24 | 4.60 |
| Class H (planned interruptions caused by another disclosing entity) | 0.04 | 15.16 |
| Class I (interruptions caused by parties not included above) | 0.04 | 1.30 |
| **Total** | 4.33 | 564.1 |

| | Normalised SAIFI | Normalised SAIDI |
|---|---|---|
| **Normalised SAIFI and SAIDI** | | |
| Classes B & C (interruptions on the network) | 0.92 | 86.11 |

| | SAIFI reliability limit | SAIDI reliability limit |
|---|---|---|
| **Quality path normalised reliability limit** | | |
| SAIFI and SAIDI limits applicable to disclosure year* | N/A | N/A |

** not applicable to exempt EDBs*

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

| Cause | SAIFI | SAIDI |
|---|---|---|
| Lightning | 0.05 | 4.91 |
| Vegetation | 0.29 | 44.21 |
| Adverse weather | 0.60 | 290.86 |
| Adverse environment | 0.06 | 2.28 |
| Third party interference | 0.18 | 34.84 |
| Wildlife | 0.21 | 21.60 |
| Human error | – | – |
| Defective equipment | 1.55 | 79.86 |
| Cause unknown | 0.82 | 13.19 |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | – | – |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 0.16 | 31.71 |
| Distribution cables (excluding LV) | 0.02 | 5.81 |
| Distribution other (excluding LV) | – | – |

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

| Main equipment involved | SAIFI | SAIDI |
|---|---|---|
| Subtransmission lines | 1.14 | 28.25 |
| Subtransmission cables | – | – |
| Subtransmission other | – | – |
| Distribution lines (excluding LV) | 2.59 | 460.63 |
| Distribution cables (excluding LV) | 0.03 | 2.87 |
| Distribution other (excluding LV) | – | – |

## 10(v): Fault Rate

| Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|---|---|---|---|
| Subtransmission lines | 5 | 193 | 2.59 |
| Subtransmission cables | – | 0 | – |
| Subtransmission other | – | | |
| Distribution lines (excluding LV) | 56 | 682 | 8.21 |
| Distribution cables (excluding LV) | 2 | 19 | 10.59 |
| Distribution other (excluding LV) | – | | |
| **Total** | 63 | | |

Company Name Eastland Network

For Year Ended 31 March 2017

# Schedule 14 Mandatory Explanatory Notes

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012)*

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 2.5.2.

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 clause 2.7.1(2).

| **Box 1: Explanatory comment on return on investment** |
| --- |
| There are no reclassified items. |

*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 regulatory line income' other than gains and losses on asset sales, as disclosed in 3(i) of Schedule 3

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

**Box 2: Explanatory comment on regulatory profit**

Other Income consists of

- An administration fee for loss rental rebates $55k
- Distributed generation (solar PV) connection fees $7k
- Pole rental from chorus $23k
- New connection fees $28k
- Compensation receipts for debt being paid over time for damage to network assets $122k
- Recovery of costs from Eastland Generation for services provided by Eastland Network staff $276k
- Income overcharge correction $36k – Where retailers have supplied incorrect or unable to provide volumetric data and so estimates have been used. This is the wash-up adjustment.
- The remaining $72k relates to various minor items.

*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 clause 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**

There was no merger or acquisition expenditure during the year.

*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 clause 2.7.1(2).

**Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)**

The RAB has increased by $11m during the year partially due to the increase in CPI but also Eastland has reallocated the Land & Buildings valued at $7.2m related to network operations back to the electricity network business. Previously these had been held at the group level and rent paid by Eastland Network. However these assets were transferred during the year to the Network and consequently reallocated back to the RAB.

During the year Eastland rebuilt it's RAB asset register to enable the matching of assets with the Financial Asset register. As a result of this and also on-going data checks, the following asset category transfers have occurred.

| | |
|---|---|
| Subtransmission lines | ($114k) |
| Subtransmission cables | - |
| Zone Substations | ($413k) |
| Distribution and LV lines | ( $54k) |
| Distribution and LV cables | $218k |
| Distribution substations and transformers | ($195k) |
| Distribution switchgear | $668k |
| Other network assets | ($71k) |
| Non-network assets | ($40k) |

The change in RAB data has also resulted in a change of asset lives. This is a reflection of the more accurate data contained within the Financial Register that has now been transferred to the RAB. The new register allows us to maintain a greater level of accuracy than was available in the unmatched register.

Additionally, the Regulatory Tax Asset base has also been rebuilt to match the financial tax register and improve accuracy of data reported in the future.

**Transfer of Assets**

Eastland Network is part of Eastland Group. In past years, assets (land, buildings and vehicles) owned by Eastland Network have been included in the Group Asset register but not in the Regulatory Asset Base. These assets have now been transferred to Eastland Network and consequently have been allocated to the RAB for the 2017 disclosure year.

The assets were included in the Unallocated RAB from 1/04/2016. The opening Unallocated RAB value includes these transferred assets (140,586k + 7,158k = 147,744k)

However an adjustment has been made to the RAB revaluation amount (S.4 cell O62) to account for the fact that the opening RAB value doesn't include the transferred assets.

The classification and values included in this disclosure year are:

Non-network assets - Land, Buildings and vehicles $7,158k

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

8. In the box below, provide descriptions and workings of the following items, as recorded in the asterisked categories in 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**

Permanent difference relate to Non-deductible entertainment expenses.

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

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

**Box 6: Temporary differences / Tax effect of other temporary differences (current disclosure year)**

Temporary Differences total $9k and equate to a $3k tax effect.

| | |
|---|---|
| Net employee provisions | ($ 1k) |
| Doubtful debt provisions | $ 10k |

*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 clause 2.3.6(1)(b).

**Box 7: Related party transactions**

Eastech Ltd provides fault and maintenance services to Eastland Network Ltd. Eastland Network has contracts with a number of providers who all work to an agreed price schedule. This schedule applies to all electrical services providers.

Eastland Network provides technical support such as engineering and project management services to Eastland Generation Ltd for generation assets used to provide network support. These services are charged out at cost recovery.

Avoided costs of transmission are paid to Eastland Generation for reducing the RCPD charges from Transpower in accordance with the requirements under the Distributed Generation Pricing Principles in Part 6 of the Electricity Industry Participation Code.

Avoided costs of distribution are also paid to Eastland Generation for network support provided in key parts of the network. These payments are also made in accordance with the Distributed Generation Pricing Principles in Part 6 of the Electricity Industry Participation Code.

*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 clause 2.7.1(2).

**Box 8: Cost allocation**

Shared services costs included in business support are not directly attributable to the network and have therefore been allocated to the network and other businesses included in the group. Allocation is based on key cost drivers such as employee numbers, asset values and technology devices employed.

All other operating expenditure is considered directly attributable to the provision of electricity network distribution servies and therefore not allocated.

*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 clause 2.7.1(2).

**Box 9: Commentary on asset allocation**

Where thresholds are applicable, Eastland has applied ACAM to allocate not directly attributable assets. These assets include land, buildings and Solar PV assets.

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

13. In the box below, comment on capital expenditure 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 clause 2.7.1(2),

**Box 10: Explanation of capital expenditure for the disclosure year**

The majority of the capital expenditure is focused on Asset replacement and renewal to maintain the network fit for purpose by replacing aged assets.

Major expenditure items for categories in asset replacement and renewal were:

Subtransmission assets formerly owned by Transpower - $1.7m including a number of projects for improving the reliability of these lines by installing Interphase spacers, structure replacements and grillage as well as replacing some assets in the zone substations.

Distribution and LV line pole replacements - $2m and $199k for conductor replacement.

Other reliability, safety and environment expenditure - $257k CBD UG project.

There is no materiality threshold applied to the schedule.

There are no items reclassified during the year.

*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 operating expenditure, as reported in 6b(i) of Schedule 6b;

    14.2 information on reclassified items in accordance with clause 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**

Asset replacement and renewal expenditure accounts for the second largest share of expenditure after business support costs. This amount includes Avoided Cost Of Distribution payments of $1.6m. These payments are made for generation services who provide network support which avoid significant upgrades for capacity and security.

There have been no reclassified items during the year.

*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 clause 2.7.1(2).

**Box 12: Explanatory comment on variance in actual to forecast expenditure**

## CAPITAL EXPENDITURE

### Customer Connections variance (-$7k)

This variance against this unplanned/customer driven expenditure category is not considered material.

### System Growth variances (-$693k)

The target for unplanned growth requirements, particularly unplanned upgrades to existing assets as a result of consumer initiated growth, was less than anticipated, (-$172k). The planned Mahia subtransmission line extension and substation upgrade, (-$457k), was deferred as negotiations over required private land access have not been completed.

### Asset Replacement and Renewal variances (-$1.473m)

$553k of the variance relates to Transpower assets acquired in 2015. A number of projects, (and associated budget), were put forward based on out of date asset condition information provided by Transpower and included in their asset management planning. Since taking over ownership and operational responsibility for these assets, Eastland has been able to conduct its own asset condition assessments and continually update plans regarding required expenditure on the assets. This variance is a result of being able to defer a 110V battery Bank replacement project at Gisborne substation, ($197k) and the scaling back of the scope of protection and transformer replacement projects at Tuai and Wairoa substations, ($354k).

Continuing issues regarding the lack of suitable field service resources to carry out projects was responsible for the deferral and or scaling back of a number of Asset Replacement and Renewal projects. This resulted in $789k of actual versus budget variance for this expenditure category.

The field service resources availability issue was exacerbated during the year in that Eastland's primary contractor underwent a change of owner and a subsequent organisational restructure. Eastland continues to work closely with this contractor and other contractors who are not based in the area, to address issues relating to the right sizing of field service resources to meet the requirements of identified projects and associated budgets.

### Asset Relocation variance (-$31k)

Variance was due to the amount budgeted to address unplanned requests made by local body and territorial authorities to relocate assets being more than required to meet the minimal requests made, (and subsequent expenditure), during 2017.

**Reliability, Safety and Environment (-$292k)**

a) Quality of Supply, (-$72k)

This variance relates to two projects, ($50k Kaiti Substation security upgrade and $30k Generator set site establishment at Raupunga and Ruakituri locations), which were required to be deferred pending finalisation of land access negotiations and the granting of resource consents.

The Kaiti and Generator set variances were in part offset by an unbudgeted spend, ($16k), on a previously unidentified project to enhance security at three key network sites through the installation of security cameras.

b) Other (-$220k)

As with part of the variance associated with Asset Replacement and Renewal projects and budget, this variance is a direct result of projects having to be deferred because of a lack of suitable field service resources.

**Non- network Assets (-$1.766m)**

a) Typical, (-$62k)

This variance relates to $13k of savings made against the budget/provision in relation to Test Instrument & Safety Equipment and General Asset Replacement.

An additional $49k of variance is related to the planned replacement of vehicles. Associated with the non-replacement of a departed staff member, the replacement of one vehicle was able to be cancelled and savings against budget were achieved in relation to the two replacement vehicles purchased.

b) Atypical, (-$1,704k)

This majority of this variance, (-$1.3m) relates to the deferral of an IT project to purchase and implement Asset Management software.

The remainder of the variance relates to the deferral of $390k of non-network building projects in Carnarvon Street and $100k of savings associated with a Solar DG trial.

**OPERATIONAL EXPENDITURE**

**Service Interruptions and Emergencies (-$32k)**

This -2.5% variance against budget for this unplanned expenditure category is not considered material.

**Routine and Corrective Maintenance and Inspection (-$606k)**

Underspend against unplanned/contingency activities accounts for -$306k of the total variance for this expenditure category.

-$104k of variance is in relation to ex-Transpower assets where budgeted activity forecasts were based on information provided by Transpower which has proved to be incorrect.

-$132k variance in relation to the routine patrolling and maintenance of 11kV overhead lines was a result of the deficit of suitable field service resources/contractors.

-$52k of variance is related to minor underspends and/or cost savings over numerous activities that make up this expenditure category.

**Asset Replacement and Renewal (-$77k)**

This -4% variance against budget for this expenditure category is primarily the result of minor cost savings made over a number of projects.

**Vegetation Management (-$380k)**

-$122k of this variance relates to underspend against unplanned/contingency vegetation management activities.

-$258k of variance resulted from the deficit of suitable field service resources/contractors as described above.

*Information relating to revenue 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 clauses 2.4.1 and 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**

Actual revenue was 3% below target as a result of a mild winter and therefore volumes were 3% lower than expected.

*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**

In the 2017 period there were less interuptions than the previous period.

However Network Reliability was severely impacted when a light fixed wing plane crashed into both circuits of the 110kV line suppling eletricity into Gisborne and the upper East Coast. This caused power to be cut to these areas for an excess of 30 hours while inital repairs were made. A further planned outage was required several days later to enable the completion of the repairs and full n-1 security reinstated to the region.

Total SAIDI for that one unplanned event was 1499 (normalised to 12.81). The additional planned outage for this event has been included in the Class B statistics and as Class B is not normalised, the full impact of that event is evident in the 152% increase in Class B SAIDI. If this event didn't occurred SAIDI and SAIFI figures would have been noticeably lower.

Whilte the plane crash had a significant effect on the SAIDI and SAIFI totals, the normalised result was lower than the previous period and under the reliability limits.

*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 in 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**

Network assets such as the Substation buildings, Zone sub transformers & switchgear, SCADA, other communications equipment excluding fibre-optic cables are insured but lines, poles and cables are not. These assets are insured for replacement cost to a maximum of $67 million.

Eastland Network Limited has no self-insurance cover.

Company Name _____

For Year Ended _____

## Schedule 14a Mandatory Explanatory Notes on Forecast Information

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012)*

1. This Schedule provides for EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.5.

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 disclosure year, as disclosed in Schedule 11a.

| **Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts** |
|---|
| This was previously disclosed with the Asset Management Plan in March. |

*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 disclosure year, as disclosed in Schedule 11b.

| **Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts** |
|---|
| This was previously disclosed with the Asset Management Plan in March. |

Company Name _____

For Year Ended _____

# Schedule 14b Mandatory Explanatory Notes on Transitional Financial Information

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012)*

1. This Schedule provides for EDBs to provide explanatory notes to the transitional financial information disclosed in accordance with clause 2.12.1.

2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.12.1. This information is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.

3. In the box below provide explanatory comment on the tax effect of other temporary differences for the years ending 31 March 2010, 31 March 2011 and 31 March 2012 (as reported in Schedule 5h(vii)).

| **Box 1: Commentary on tax effect of other temporary differences (years ended 31 March 2010, 31 March 2011, and 31 March 2012)** |
|---|
| [Insert text here] |

4. To the extent that any change in regulatory profit and ROI reported for 2013 (compared to that reported for 2012) is attributable to the change in treatment of related party transactions, provide an explanation of the change in the box below.

| **Box 2: Change in regulatory profit and ROI due to change in treatment of related party transactions** |
|---|
| [Insert text here] |

5. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with clause 2.7.1(2) for disclosure years 2011 and 2012.

**Box 3: Commentary on asset allocation**
[Insert text here]

Company Name _____

For Year Ended _____

# Schedule 15 Voluntary Explanatory Notes

*(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012)*

1. This Schedule enable 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, 2.5.2, and 2.6.5;

   1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of 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** |
| --- |
| [Insert text below] |

## Schedule 18 Certification for 2016/17 Year-end Disclosures

Clause 2.9.2

We, Tony Gray and Kieran Devine
being directors of Eastland Network 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 14a has been properly extracted from the Eastland Network Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained; and

c) In respect of related party costs and revenues recorded in accordance with subclauses 2.3.6(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Electricity Distribution Services Input Methodologies Determination 2010), 2.3.6(1)(f) and 2.3.7(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's-length.

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*Director*

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*Director*

Dated: 16 August 2017

Deloitte.

**INDEPENDENT ASSURANCE REPORT**
**TO THE DIRECTORS OF EASTLAND NETWORK LIMITED AND THE COMMERCE COMMISSION**

The Auditor-General is the auditor of Eastland Network Limited ('the Company'). The Auditor-General has appointed me, Trevor Deed, 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* 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.

Deloitte.

**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 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, and the annual audit of the Company's financial statements, we have no relationship with or interests in the Company.

**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.

Trevor Deed, Partner
for Deloitte Limited
On behalf of the Auditor-General
Wellington, New Zealand
16 August 2017