

EDB Information Disclosure Requirements Information Templates

for Schedules 1–10

Company Name Disclosure Date Disclosure Year (year ended)

| Powerco Limited | |
|-----------------|--|
| 31 August 2021 | |
| 31 March 2021 | |

Templates for Schedules 1–10 excluding 5f–5g Template Version 4.1. Prepared 21 December 2017

Table of Contents

| Schedule | Schedule name |
|----------|---|
| 1 | ANALYTICAL RATIOS |
| 2 | REPORT ON RETURN ON INVESTMENT |
| 3 | REPORT ON REGULATORY PROFIT |
| 4 | REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD) |
| 5a | REPORT ON REGULATORY TAX ALLOWANCE |
| 5b | REPORT ON RELATED PARTY TRANSACTIONS |
| 5c | REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE |
| 5d | REPORT ON COST ALLOCATIONS |
| 5e | REPORT ON ASSET ALLOCATIONS |
| 6a | REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR |
| 6b | REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR |
| 7 | COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE |
| 8 | REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES |
| 9a | ASSET REGISTER |
| 9b | ASSET AGE PROFILE |
| 9c | REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES |
| 9d | REPORT ON EMBEDDED NETWORKS |
| 9e | REPORT ON NETWORK DEMAND |
| 10 | REPORT ON NETWORK RELIABILITY |
| | |

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 21 December 2017). 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

Instructions

| Company Name | Powerco Limited |
|----------------|-----------------|
| For Year Ended | 31 March 2021 |
| | |

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

| sch | ref |
|-----|-----|
| | |

| 7 | 1(i): Expenditure metrics | 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) |
|----------------|---|--|---|---|---|--|
| 9 | Operational expenditure | 18,637 | 261 | 96,341 | 3,190 | 27,376 |
| 10 | Network | 8,392 | 118 | 43,380 | 1,436 | 12,327 |
| 11 | Non-network | 10,245 | 144 | 52,961 | 1,753 | 15,050 |
| 12 | | | | | | |
| 13 | Expenditure on assets | 49,528 | 694 | 256,027 | 8,476 | 72,753 |
| 14 | Network | 46,442 | 651 | 240,075 | 7,948 | 68,220 |
| 15 | Non-network | 3,086 | 43 | 15,952 | 528 | 4,533 |
| 16 | | | | | | |
| 17 | | Revenue per GWh energy delivered to ICPs (\$/GWh) | Revenue per average no. of ICPs (\$/ICP) | | | |
| 19 | Total consumer line charge revenue | 72,402 | 1,015 | | | |
| 20 | Standard consumer line charge revenue | 92,353 | 882 | | | |
| 21 | Non-standard consumer line charge revenue | 29,899 | 115,083 | | | |
| 22 23 24 | | | | | | |
| 25 | Demand density | 33 | Maximum coinci | dent system demand | d per km of circuit le | ngth (for supply) (kW/km) |
| 26 | Volume density | 171 | Total energy deli | vered to ICPs per km | n of circuit length (fo | or supply) (MWh/km) |
| 27 | Connection point density | 12 | Average number | of ICPs per km of ci | rcuit length (for sup | ply) (ICPs/km) |
| 28 | Energy intensity | 14,015 | Total energy deli | vered to ICPs per av | erage number of ICI | Ps (kWh/ICP) |
| 29 | | | | | | |
| 30 | 1(iv): Composition of regulatory income | | | | | |
| 31 | | | (\$000) | % of revenue | | |
| 32 | | | 90,946 | 28.99% | | |
| 33 | Pass-through and recoverable costs excluding financial incent | tives and wash-ups | 103,659 | 33.04% | | |
| 34 | Total depreciation | | 80,369 | 25.61% | | |
| 35 | Total revaluations | | 29,063 | 9.26% | | |
| 36 | | | 9,885 | 3.15% | | |
| 37 | | h-ups | 55,872 | 17.81% | | |
| 38 | | | 313,765 | | | |
| 39 40 41 | | | | | | |
| 42 | Interruption rate | | 20.24 | Interruptions per | 100 circuit km | |

| | Compa | ny Name | Por | werco Limited | |
|----------------------|--|-------------------|-----------------------|---------------------|-----------------------------|
| | For Ye | ar Ended | 3: | 1 March 2021 | |
| СН | IEDULE 2: REPORT ON RETURN ON INVESTMENT | | | | |
| pro Bs r is in | chedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Comm ate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. I ivvided in 2(iii). must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). Iformation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and sc | f an EDB makes th | is election, inform | nation supporting t | his calculation mu |
| ef | 2(i): Return on Investment | - | CY-2 1 Mar 19 | CY-1 31 Mar 20 | Current Year C 31 Mar 21 |
| | ROI – comparable to a post tax WACC | | % | % | % |
| | Reflecting all revenue earned | | 6.12% | 6.97% | 2.55 |
| | Excluding revenue earned from financial incentives | | 6.02% | 6.99% | 2.52 |
| | Excluding revenue earned from financial incentives and wash-ups | | 6.01% | 7.00% | 2.54 |
| | | | | | |
| | Mid-point estimate of post tax WACC | | 4.75% | 4.27% | 3.72 |
| | 25th percentile estimate | | 4.07% | 3.59% | 3.04 |
| | 75th percentile estimate | | 5.43% | 4.95% | 4.40 |
| | | | | | |
| | | | | | |
| | ROI – comparable to a vanilla WACC | | | | |
| | Reflecting all revenue earned | | 6.63% | 7.40% | 2.88 |
| | Excluding revenue earned from financial incentives | | 6.53% | 7.41% | 2.85 |
| | Excluding revenue earned from financial incentives and wash-ups | | 6.52% | 7.43% | 2.88 |
| | | | | _ | |
| | WACC rate used to set regulatory price path | | 7.19% | 7.19% | 4.57 |
| | | | ц | | |
| | Mid-point estimate of vanilla WACC | | 5.26% | 4.69% | 4.05 |
| | 25th percentile estimate | | 4.58% | 4.01% | 3.37 |
| | 75th percentile estimate | | 5.94% | 5.37% | 4.73 |
| | 2(ii): Information Supporting the ROI | | 1.052.010 | (\$000) | |
| | Total opening RAB value plus Opening deferred tax | | 1,962,910 (73,280) | | |
| | plus Opening deferred tax Opening RIV | | (75,280) | 1,889,630 | |
| | | | | 1,009,030 | |
| | Line charge revenue | | Г | 353,313 | |
| | | | L | 555,515 | |
| | Expenses cash outflow | | 194,605 | | |
| | add Assets commissioned | | 184,197 | | |
| | less Asset disposals | | 42,007 | | |
| | add Tax payments | | 8,349 | | |
| | less Other regulated income | | (39,548) | | |
| | Mid-year net cash outflows | | | 384,692 | |
| | | | | | |
| | Term credit spread differential allowance | | | 2,098 | |
| | | | | | |
| | Total closing RAB value | | 2,053,806 | | |
| | less Adjustment resulting from asset allocation | | 11 | | |
| | less Lost and found assets adjustment | | - | | |
| | plus Closing deferred tax | | (74,816) | | |
| | Closing RIV | | | 1,978,979 | |
| | | | | - | |
| | ROI – comparable to a vanilla WACC | | | | 2.88 |
| | | | | | |
| | Leverage (%) | | | | 42 |
| | Cost of debt assumption (%) | | | | 2.82 |
| | Corporate tax rate (%) | | | | 28 |
| | | | | | |
| | ROI – comparable to a post tax WACC | | | | 2.55 |

| | | | | C | | Deveryon Lineiter | | | | |
|---------------------|--|-------------------------------|------------------------|--------------------------------|--------------------|----------------------------------|------------------|--|--|--|
| | | | | Company Name For Year Ended | | Powerco Limited 31 March 2021 | | | | |
| sc | HEDULE 2: REPORT ON RETURN | I ON INVESTMENT | r | | | | | | | |
| calc be p EDB | 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 rej 61 | 2(iii): Information Supporting the | e Monthly ROI | | | | | | | | |
| 62 63 | Opening RIV | | | | | | N/A | | | |
| 64 | | | | | | | | | | |
| 65 | | Line charge | Expenses cash | Assets | Asset | Other regulated | Monthly net cash | | | |
| 66 67 | April | revenue | outflow | commissioned | disposals | income | outflows - | | | |
| 68 | May | | | | | | - | | | |
| 69 | June | | | | | | - | | | |
| 70 71 | July | | | | | | - | | | |
| 71 72 | August September | | | | | | | | | |
| 73 | October | | | | | | - | | | |
| 74 | November | | | | | | - | | | |
| 75 | December | | | | | | - | | | |
| 76 77 | January February | | | | | | | | | |
| 78 | March | | | | | | - | | | |
| 79 | Total | - | - | - | - | - | - | | | |
| 80 81 82 | Tax payments | | | | | | N/A | | | |
| 83 | Term credit spread differential allow | vance | | | | | N/A | | | |
| 84 85 | Closing RIV | | | | | | N/A | | | |
| 86 | Closing Kiv | | | | | | N/A | | | |
| 87 | | | | | | | | | | |
| 88 89 | Monthly ROI – comparable to a vanilla | WACC | | | | | N/A | | | |
| 90 | Monthly ROI – comparable to a post ta | X WACC | | | | | N/A | | | |
| 91 02 | 2/iuly Vear End POI Bates for Car | nnarisan Durnasas | | | | | | | | |
| 92 93 | 2(iv): Year-End ROI Rates for Cor | nparison Purposes | | | | | | | | |
| 94 95 | Year-end ROI – comparable to a vanilla | WACC | | | | | 2.81% | | | |
| 96 97 | Year-end ROI – comparable to a post t | ax WACC | | | | | 2.48% | | | |
| 98 99 | * these year-end ROI values are compar | able to the ROI reported in p | re 2012 disclosures by | EDBs and do not repre | esent the Commissi | on's current view on R | 01. | | | |
| 100 101 | 2(v): Financial Incentives and Wa | ish-Ups | | | | | | | | |
| 102 | Net recoverable costs allowed under | | e scheme | | | - | | | | |
| 103 | Purchased assets – avoided transmis | | | | | - | | | | |
| 104 105 | Energy efficiency and demand incen Quality incentive adjustment | live allowance | | | | 786 | | | | |
| 106 | Other financial incentives | | | | | - | | | | |
| 107 | Financial incentives | | | | | | 786 | | | |
| 108 | | | | | | | 0.02% | | | |
| 109 110 | Impact of financial incentives on ROI | | | | | | 0.03% | | | |
| 110 | Input methodology claw-back | | | | | - | | | | |
| 112 | CPP application recoverable costs | | | | | - | | | | |
| 113 | Catastrophic event allowance | | | | | - | | | | |
| 114 115 | Capex wash-up adjustment Transmission asset wash-up adjustm | ent | | | | (578) | | | | |
| 115 | 2013–15 NPV wash-up allowance | | | | | - | | | | |
| 117 | Reconsideration event allowance | | | | | - | | | | |
| 118 | Other wash-ups | | | | | - | | | | |

| | Company Name | | | | | |
|-----------------|--|---|--|--|--|--|
| | For Year Ended | 31 March 2021 | | | | |
| S | CHEDULE 2: REPORT ON RETURN ON INVESTMENT | | | | | |
| cal be ED | is schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimat culate 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 provided in 2(iii). Bs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to th | this election, information supporting this calculation must | | | | |
| sch re | f | | | | | |
| 119 | Wash-up costs | (578) | | | | |
| 120 | | | | | | |
| 121 | Impact of wash-up costs on ROI | -0.02% | | | | |
| | | | | | | |

| | | Company Name | Powerco Limited |
|----------|----------|--|--|
| | | For Year Ended | 31 March 2021 |
| SCHE | DUL | E 3: REPORT ON REGULATORY PROFIT | |
| | - | quires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all | sections and provide explanatory comment o |
| heir reg | gulatory | profit in Schedule 14 (Mandatory Explanatory Notes). | |
| his info | ormation | is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the asso | urance report required by section 2.8. |
| ref | | | |
| 3 | (i): Re | gulatory Profit | (\$000) |
| | | ncome | |
| , | | Line charge revenue | 353,31 |
| , | plus | Gains / (losses) on asset disposals | (41,90 |
| | plus | Other regulated income (other than gains / (losses) on asset disposals) | 2,35 |
| 2 | | | |
| | - | fotal regulatory income | 313,76 |
| 1 | | Expenses | |
| ; | less | Operational expenditure | 90,94 |
| 5 | | | |
| 7 | less | Pass-through and recoverable costs excluding financial incentives and wash-ups | 103,65 |
| 3 | | | |
| 2 | | Operating surplus / (deficit) | 119,16 |
|) | | | |
| | less | Total depreciation | 80,36 |
| ? | | | |
| 3 | plus | Total revaluations | 29,06 |
| 1 | | | |
| 5 | 1 | Regulatory profit / (loss) before tax | 67,85 |
| 5 | 1 | The second state of the se | 2.00 |
| 7 3 | less | Term credit spread differential allowance | 2,09 |
| , , | less | Regulatory tax allowance | 9,88 |
| , | 1833 | regulatory tax allowance | 3,00 |
| | | Regulatory profit/(loss) including financial incentives and wash-ups | 55,87 |
| 2 | | | |
| 3 | (ii)∙ P | ass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups | (\$000) |
| | | Pass through costs | |
| | | Rates | 1,929 |
| 5 | | Commerce Act levies | 632 |
| 7 | | Industry levies | 1,234 |
| 3 | | CPP specified pass through costs | |
| , | 1 | Recoverable costs excluding financial incentives and wash-ups | |
| , | | Electricity lines service charge payable to Transpower | 88,075 |
| | | Transpower new investment contract charges | 7,355 |
| ? | | System operator services | _ |
| 2 | | Distributed generation allowance | 4,435 |
| 1 | | Extended reserves allowance | |
| 5 | | Other recoverable costs excluding financial incentives and wash-ups | - |
| 5 | | Pass-through and recoverable costs excluding financial incentives and wash-ups | 103,65 |

| | | Company Name | Powerco Limite | ed |
|--------------|---|---|--|--|
| | | For Year Ended | 31 March 202 | 1 |
| sc | HEDULE 3: REP | ORT ON REGULATORY PROFIT | | |
| thei This | r regulatory profit in Sch information is part of au | nation on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete edule 14 (Mandatory Explanatory Notes). dited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the a | | |
| ref | | | | |
| | 3(iii): Increme | ental Rolling Incentive Scheme | (\$ | 6000) |
| 2 | | | CY-1 | CY |
|) | | | 31 Mar 20 | 31 Mar 21 |
| | | ntrollable opex | | |
| 2 | Actual cont | rollable opex | | L |
| | Increment | | | |
| | Incrementa | I change in year | | |
| 5 | | | Previous years' incremental change | Previous years incremental change adjuste for inflation |
| , | CY-5 | 31 Mar 16 | change | |
| 3 | CY-4 | 31 Mar 17 | | |
| , | CY-3 | 31 Mar 18 | | |
| , | CY-2 | 31 Mar 19 | | |
| 1 | CY-1 | 31 Mar 20 | | |
| 2 | Net increme | ntal rolling incentive scheme | | - |
| 3 | | | | |
| 4 | Net recovera | ble costs allowed under incremental rolling incentive scheme | | - |
| 5 | 3(iv). Merger a | nd Acquisition Expenditure | | |
| | S(IV). WEIGEI al | | | (\$000) |
|) 5 | Morgor an | | | (\$000) |
| 7 | werger and | acquisition expenditure | | L |
| | Orevista | an antipart of the first of an area and any initian our and it as to the electric to the start burgers of | a aludia a nanuinad diad- | |
| 3 | | nmentary on the benefits of merger and acquisition expenditure to the electricity distribution business, i in Schedule 14 (Mandatory Explanatory Notes) | nciuaing requirea aisciosures i | n accoraance with |
| , | 3(v): Other Disc | | | |
| | S(V). Other Dist | | | (\$000) |
| 1 | | nce allowance | | (\$000) |

| | | | | mpany Name or Year Ended | | werco Limited 1 March 2021 | |
|-------------------|---|---|----------------------|-------------------------------------|---|--|--|
| This sc EDBs n | IEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLET chedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosur must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This in red by section 2.8. | e year. This informs the ROI calculation in Sch | | ction 1.4 of the ID d | etermination), and | so is subject to the a | assurance rep |
| ref | | | | | | | |
| 7 3 9 | 4(i): Regulatory Asset Base Value (Rolled Forward) | for year ended | RAB 31 Mar 17 | RAB 31 Mar 18 | RAB 31 Mar 19 | RAB 31 Mar 20 | RAB 31 Mar 21 |
| | Total opening RAB value | I | (\$000) 1,528,013 | (\$000) 1,592,546 | (\$000) 1,657,737 | (\$000) 1,787,100 | (\$000) 1,962 |
| | less Total depreciation | I | 62,497 | 66,765 | 67,008 | 69,808 | 80 |
| | plus Total revaluations | l | 32,664 | 17,321 | 24,327 | 44,763 | 29 |
| | plus Assets commissioned | I | 108,878 | 123,688 | 185,313 | 208,182 | 184, |
| | less Asset disposals | I | 14,730 | 9,200 | 12,096 | 7,414 | 42, |
| | plus Lost and found assets adjustment | | | - | - | - | |
| | plus Adjustment resulting from asset allocation | | 218 | 146 | (1,173) | 86 | |
| | | | | | | | |
| | Total closing RAB value | I | 1,592,546 | 1,657,737 | 1,787,100 | 1,962,910 | 2,053 |
| | Total closing RAB value 4(ii): Unallocated Regulatory Asset Base | I | 1,592,546 | | | | · · · |
| | 4(ii): Unallocated Regulatory Asset Base | I | 1,592,546 | 1,657,737 Unallocated (\$000) | I RAB * (\$000) | 1,962,910 RAB (\$000) | (\$000) |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less | I | 1,592,546 | Unallocated | I RAB * (\$000) 1,977,226 | RAB | (\$000) 1,962, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus | I | 1,592,546 | Unallocated | 1 RAB * (\$000) 1,977,226 81,728 | RAB | (\$000) 1,962, 80, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus | I | 1,592,546 | Unallocatec (\$000) | I RAB * (\$000) 1,977,226 | (\$000) | (\$000) 1,962, 80, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier | | 1,592,546 | Unallocatec (\$000) | 1 RAB * (\$000) 1,977,226 81,728 | (\$000) (\$000) [] [] [] [] [] [] [] [] [] [] [] [] [] | (\$000) 1,962, 80, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Assets acquired from a related party Assets acquired from a related party Assets commissioned | | 1,592,546 | Unallocatec (\$000) | 1 RAB * (\$000) 1,977,226 81,728 | RAB (\$000) | (\$000) 1,962, 80, 29, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Assets acquired from a related party Assets commissioned less Asset disposals (other than below) | | 1,592,546 | Unallocatec (\$000) | 1 RAB * (\$000) 1,977,226 81,728 29,248 | RAB (\$000) | (\$000) 1,962, 80, 29, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Asset commissioned less Asset disposals to a regulated supplier Asset disposals to a related party | | 1,592,546 | Unallocatee (\$000) | 1 RAB * (5000) 1,977,226 81,728 29,248 29,248 186,682 | RAB (\$000) | (\$000) 1,962; 80, 29, 184, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals | | 1,592,546 | Unallocatec (\$000) | IRAB* (5000) 1,977,226 81,728 29,248 29,248 186,682 186,682 | RAB (\$000) | (\$000) 1,962,9 80,7 29,0 184,7 184,7 42,0 |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Asset acquired from a related party Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a related party Asset disposals | | 1,592,546 | Unallocatec (\$000) | 1 RAB * (5000) 1,977,226 81,728 29,248 29,248 186,682 | RAB (\$000) | (\$000) 1,962; 80, 29, 184, 184, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets commissioned less Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a regulated party Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation | | 1,592,546 | Unallocatec (\$000) | IRAB * (5000) 1,977,226 81,728 29,248 29,248 186,682 186,682 41,998 | RAB (\$000) | (\$000) 1,962, 80, 29, 184, 42, |
| | 4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Asset acquired from a related party Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a related party Asset disposals | ervices without any allowance being mode fo | | Unallocater (\$000) | 1 RAB * (\$000) 1,977,226 81,728 29,248 29,248 186,682 186,682 41,998 - 2,069,431 | RAB (\$000) | (\$000) 1,962, 29, 184, 184, 42, 2,053, |

| Th ED | is schedule re Bs must provi | 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD) quires 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. de explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defi | Company Name For Year Ended ined in section 1.4 of the ID | | Powerco Limited 31 March 2021 d so is subject to the | assurance report |
|----------------------------|---------------------------------|--|---|---------------------|--|-------------------------|
| | quired by sect | ion 2.8. | | | | |
| sch re 51 | t | | | | | |
| 52 53 54 55 56 | 4(iii): C | CPI ₄ CPI ₄ ⁴ Revaluation rate (%) | | | F | 1,068 1,052 1.52% |
| 57 | | | | | _ | |
| 58 59 | | | Unallocat (\$000) | ed RAB * (\$000) | RAI (\$000) | 3 (\$000) |
| 60 | | Total opening RAB value | 1,977,226 | (\$000) | 1,962,910 | (\$000) |
| 61 | less | Opening value of fully depreciated, disposed and lost assets | 54,148 | | 51,994 | |
| 62 63 | | Total opening RAB value subject to revaluation | 1,923,078 | | 1,910,916 | |
| 64 | | Total revaluations | 1,525,070 | 29,248 | 1,510,510 | 29,063 |
| 65 | | | | | | |
| 66 | 4(iv): R | oll Forward of Works Under Construction | | | | |
| | | | Unallocated | works under | | |
| 67 | | | constr | | Allocated works un | der construction |
| 68 | | Works under construction—preceding disclosure year | | 62,128 | | 61,012 |
| 69 | plus | Capital expenditure | 218,336 | | 215,972 | |
| 70 | less | Assets commissioned | 186,682 | | 184,197 | |
| 71 | plus | Adjustment resulting from asset allocation | | 02 791 | 45 | 02.821 |
| 72 73 | | Works under construction - current disclosure year | | 93,781 | | 92,831 |
| 73 74 75 | | Highest rate of capitalised finance applied | | | | 3.59% |

| | | | | | | | | (| Company Name | Р | owerco Limited | |
|-----|-------|--|-----------------|---------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|--------------------------------|------------------------|---------------------------------------|
| | | | | | | | | | For Year Ended | | 31 March 2021 | |
| | sc | HEDULE 4: REPORT ON VALUE OF THE R | EGULATORY | ASSET BASE | | | | | | | | |
| | | schedule requires information on the calculation of the Regulato | | | • | • | Ol calculation in Sch | odulo 2 | | | | |
| | | s must provide explanatory comment on the value of their RAB i | | | | | | | section 1.4 of the I | determination) and | d so is subject to the | assurance report |
| | | ired by section 2.8. | | atory explanatory i | 10103): 1113 Informa | cion is part of duale | | action (as actined in | | determination,, and | | ussurance report |
| | | | | | | | | | | | | |
| scl | h ref | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 76 | 4(v): Regulatory Depreciation | | | | | | | | | | |
| | 77 | | | | | | | | Unallocat | | RA | |
| | 78 | | | | | | | | (\$000) | (\$000) | (\$000) | (\$000) |
| | 79 | Depreciation - standard | | | | | | | 69,823 | | 69,753 | |
| | 80 | Depreciation - no standard life assets | | | | | | | 11,904 | | 10,616 | |
| | 81 | Depreciation - modified life assets | | | | | | | - | | - | |
| | 82 | Depreciation - alternative depreciation in accorda | ance with CPP | | | | | | - | | - | |
| | 83 | Total depreciation | | | | | | | | 81,728 | L | 80,369 |
| 1 | 84 | | | | | | | | | | | |
| | | 4(vi): Disclosure of Changes to Depreciation | Duofilos | | | | | | (1000 | | | |
| | 85 | 4(vi): Disclosure of Changes to Depreciation | Promes | | | | | | (\$000) | inless otherwise spe | ecified) | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | Closing RAB value | |
| | | | | | | | | | | Depreciation charge for the | | Closing RAB value under 'standard' |
| | 86 | Asset or assets with changes to depreciation* | | | | Reaso | on for non-standard | depreciation (text | entrv) | period (RAB) | depreciation | depreciation |
| | 87 | | | | | licust | | acpresiation (text | | period (inter | ucpreciation | depreciation |
| | 88 | | | | | | | | | | | |
| | 89 | | | | | | | | | | | |
| | 90 | | | | | | | | | | | |
| | 91 | | | | | | | | | | | |
| | 92 | | | | | | | | | | | |
| | 93 | | | | | | | | | | | |
| | 94 | | | | | | | | | | | |
| | 95 | * include additional rows if needed | | | | | | | | | | |
| | 55 | include dualitional rows ly needed | | | | | | | | | | |
| | 96 | 4(vii): Disclosure by Asset Category | | | | | | | | | | |
| | 97 | .(, | | | | | (\$000 unless oth | nerwise specified) | | | | |
| | 57 | | | | | | (, | Distribution | | | | |
| | | | Subtransmission | Subtransmission | | Distribution and | Distribution and | substations and | Distribution | Other network | Non-network | |
| 1 | 98 | | lines | cables | Zone substations | LV lines | LV cables | transformers | switchgear | assets | assets | Total |
| | 99 | Total opening RAB value | 74,945 | 52,671 | 176,560 | 449,695 | 326,032 | 278,228 | 172,126 | 356,250 | 76,403 | 1,962,910 |
| 1 | 00 | less Total depreciation | 2,349 | 1,351 | 8,309 | 15,885 | 15,931 | 9,665 | 6,857 | 12,141 | 7,881 | 80,369 |
| 1 | 01 | plus Total revaluations | 1,139 | 777 | 2,685 | 6,845 | 4,956 | 4,222 | 2,613 | 4,897 | 929 | 29,063 |
| 1 | 02 | plus Assets commissioned | 27,122 | 9,143 | 24,301 | 66,934 | 13,673 | 8,178 | 2,651 | 16,276 | 15,918 | 184,197 |
| 1 | 03 | less Asset disposals | 57 | - | 0 | 652 | 153 | 665 | 278 | 40,133 | 69 | 42,007 |
| 1 | 04 | plus Lost and found assets adjustment | - | - | - | - | - | - | - | - | - | - |
| 1 | 05 | plus Adjustment resulting from asset allocation | (81) | - | - | (1,062) | - | - | - | - | 1,155 | 11 |
| | 06 | plus Asset category transfers | (23,430) | (7,899) | (20,992) | (57,831) | (11,822) | (7,066) | (2,291) | 131,331 | - | - |
| 1 | 07 | Total closing RAB value | 77,288 | 53,342 | 174,244 | 448,045 | 316,756 | 273,232 | 167,965 | 456,480 | 86,454 | 2,053,806 |
| 1 | 08 | | | | | - | - | | | | | |
| | 09 | Asset Life | | | | | | | | | | |
| | 10 | Weighted average remaining asset life | 42 | 44 | 31 | 40 | 32 | 34 | 30 | 45 | 17 | (years) |
| | 11 | Weighted average expected total asset life | 60 | 53 | 47 | 59 | 49 | 50 | 39 | 47 | 21 | (years) |
| | | the state of the spectree to the asset life | | 33 | 47 | | +3 | | 39 | +7 | 21 | (100.0) |

| | | Company Name | Powerco Limited |
|----------|----------------|--|-----------------------|
| | | For Year Ended | 31 March 2021 |
| SC | HEDULE | 5a: REPORT ON REGULATORY TAX ALLOWANCE | |
| prof | it). EDBs must | ires information on the calculation of the regulatory tax allowance. This information is used to calculate reg provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject | / Explanatory Notes). |
| Í | | | |
| 7 | | egulatory Tax Allowance | (\$000) |
| 8 9 | l l | Regulatory profit / (loss) before tax | 67,855 |
| 10 | plus | Income not included in regulatory profit / (loss) before tax but taxable | 1,725 * |
| 11 | <i>p</i> · · · | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | 444 * |
| 12 | | Amortisation of initial differences in asset values | 10,038 |
| 13 | | Amortisation of revaluations | 8,655 |
| 14 | | | 20,862 |
| 15 | | | |
| 16 | less | Total revaluations | 29,063 |
| 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 | 210 * |
| 20 | | Notional deductible interest | 24,141 |
| 21 | | | 53,414 |
| 22 | | | |
| 23 24 | | Regulatory taxable income | 35,302 |
| 24 25 | less | Utilised tax losses | |
| 26 | 1033 | Regulatory net taxable income | 35,302 |
| 27 | | Regulatory net taxable income | |
| 28 | | Corporate tax rate (%) | 28% |
| 29 | 1 | Regulatory tax allowance | 9,885 |
| 30 | | | |
| 31 | * Work | ings to be provided in Schedule 14 | |
| 32 | 5a(ii): D | visclosure of Permanent Differences | |
| 33 | | In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in | n Schedule 5a(i). |
| 34 | 5a(iii): A | Amortisation of Initial Difference in Asset Values | (\$000) |
| 35 | | | |
| 36 | | Opening unamortised initial differences in asset values | 220,835 |
| 37 | less | Amortisation of initial differences in asset values | 10,038 |
| 38 | plus | Adjustment for unamortised initial differences in assets acquired | _ |
| 39 | less | Adjustment for unamortised initial differences in assets disposed | 11,223 |
| 40 | | Closing unamortised initial differences in asset values | 199,575 |
| 41 | | | |
| 42 | | Opening weighted average remaining useful life of relevant assets (years) | 22 |

| | | Company Name | Powerco Limited |
|----------|--------------------|--|---|
| | | For Year Ended | 31 March 2021 |
| SC | HEDULE | 5a: REPORT ON REGULATORY TAX ALLOWANCE | |
| pro | fit). EDBs mustion | uires information on the calculation of the regulatory tax allowance. This information is used to calculate regulato st provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Expl s part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to th | anatory Notes). |
| 44 | | Amortisation of Revaluations | (\$000) |
| 45 | | | 4 700 251 |
| 46 47 | | Opening sum of RAB values without revaluations | 1,769,251 |
| 48 | | Adjusted depreciation | 71,714 |
| 49 | | Total depreciation | 80,369 |
| 50 | | Amortisation of revaluations | 8,655 |
| 51 | | | (\$200) |
| 52 | 5a(v): 1 | 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 | - |
| | | Colouistics of Deferred Tax Polence | (\$000) |
| 58 | 5a(vi): | Calculation of Deferred Tax Balance | (\$000) |
| 59 60 | | Or aving deferred to: | (73,280) |
| 61 | | Opening deferred tax | (73,280) |
| 62 | plus | Tax effect of adjusted depreciation | 20,080 |
| 63 | | | |
| 64 | less | Tax effect of tax depreciation | 31,116 |
| 65 | - | Tour off and a first and an an a difference of the | (445) |
| 66 67 | plus | Tax effect of other temporary differences* | (416) |
| 68 | less | Tax effect of amortisation of initial differences in asset values | 2,811 |
| 69 | | | |
| 70 | plus | Deferred tax balance relating to assets acquired in the disclosure year | 1,496 |
| 71 72 | less | Deferred tax balance relating to assets disposed in the disclosure year | (11,407) |
| 73 | 1633 | Deren eu tax balance relating to assets disposed in the disclosure year | (11,407) |
| 74 | plus | Deferred tax cost allocation adjustment | (176) |
| 75 | | | |
| 76 | | Closing deferred tax | (74,816) |
| 77 | | | |
| 78 | 5a(vii) | Disclosure of Temporary Differences | |
| 79 80 | 54(911) | In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedul differences). | ule 5a(vi) (Tax effect of other temporary |
| 81 | 5a(viii) | : Regulatory Tax Asset Base Roll-Forward | |
| 82 | | | (\$000) |
| 83 | | Opening sum of regulatory tax asset values | 1,232,214 |
| 84 | less | Tax depreciation | 111,128 |
| 85 | plus | Regulatory tax asset value of assets commissioned | 180,495 |
| 86 | less | Regulatory tax asset value of asset disposals | 1,269 |
| 87 | plus | Lost and found assets adjustment | _ |
| 88 | plus | Adjustment resulting from asset allocation | (616) |
| 89 | plus | Other adjustments to the RAB tax value | 5,341 |
| 90 | | Closing sum of regulatory tax asset values | 1,305,038 |
| | | | |

| | | Powerco Limited | |
|---------------|--|---------------------------------|------------------------|
| | For Year Ended | 31 March 2021 | |
| S | CHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS | | |
| | nis schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID det | | |
| Thi | his information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to | the assurance report required b | y clause 2.8 |
| | af . | | |
| n re | | | |
| , | 5b(i): Summary—Related Party Transactions | (\$000) | (\$000) |
| | Total regulatory income | | 4 |
| | | | |
| 1 | Market value of asset disposals | | - |
| | | | |
| | Service interruptions and emergencies | - | |
| 1 | Vegetation management Routine and corrective maintenance and inspection | | |
| | Asset replacement and renewal (opex) | _ | |
| ; | Network opex | | - |
| · | Business support | - | |
| | System operations and network support | - | |
| | Operational expenditure | | - |
| 2 | Consumer connection | - | |
| | System growth | - | |
| | Asset replacement and renewal (capex) | 332 | |
| 1 | Asset relocations | - | |
| | Quality of supply Legislative and regulatory | - | |
| | Other reliability, safety and environment | | |
| , | Expenditure on non-network assets | | - |
| 2 | Expenditure on assets | | 33 |
| | Cost of financing | | - |
| | Value of capital contributions | | - |
| | Value of vested assets | | - |
| 2 | Capital Expenditure | | 33 |
| | Total expenditure | | 33 |
| ! | | | |
| | | | |
| | Other related party transactions | | - |
| | Other related party transactions 5b(iii): Total Opex and Capex Related Party Transactions | | - |
| | | | |
| | | | - |
| | 5b(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service | | ransactions |
| | 5b(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) | t | ransactions |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select | t | (\$000) |
| 7 8 9 9 1 1 1 | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] [Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) [Select one] [Select | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] | t | ransactions (\$000) |
| | Sb(iii): Total Opex and Capex Related Party Transactions Nature of opex or capex service Name of related party provided Base Power Limited Asset replacement and renewal (capex) Select one] [Select one] | t | ransactions (\$000) |

| | | Company Name | Powerco Limited |
|--------|---|---|------------------|
| | | For Year Ended | 31 March 2021 |
| sc | HEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLO | DWANCE | |
| 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), an | d so is subject to the assurance report required by section 2.8. | |
| sch re | f | | |
| 7 | | | |
| 8 | 5c(i): Qualifying Debt (may be Commission only) | | |
| 26 | | | |
| 27 | 5c(ii): Attribution of Term Credit Spread Differential | | |
| 28 | | | |
| 29 | Gross term credit spread differential | 4,433 | |
| 30 | | | |
| 31 | Total book value of interest bearing debt | 1,781,859 | |
| 32 | Leverage | 42% | |
| 33 | Average opening and closing RAB values | 2,008,358 | |
| 34 | Attribution Rate (%) | 47% | |
| 35 | | | |
| 36 | Term credit spread differential allowance | 2,098 | |
| 37 | | | |

| | | | Company Name | P | owerco Limite | d |
|-----|--|----------------------|-----------------------------|---------------------------------|----------------------|-------------------|
| | | | For Year Ended | | 31 March 2021 | |
| sr | CHEDULE 5d: REPORT ON COST ALLOCATIONS | | <u>-</u> | | | |
| | | n Eshadula 14 (Mand | ton Evalanaton Not | oc) including on the | impact of any racia | rifications |
| | s schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation i s information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assuranc | | | es), including on the | impact of any reclas | sincations. |
| | | e report required by | | | | |
| ref | | | | | | |
| | | | | | | |
| 7 | 5d(i): Operating Cost Allocations | | | | | |
| 8 | | | Value alloca | | | |
| | | Arm's length | Electricity distribution | Non-electricity distribution | | OVABAA allocation |
| 9 | | deduction | services | services | Total | increase (\$000s) |
| , | Service interruptions and emergencies | | | | | |
| | Directly attributable | | 6,303 | | | |
| 2 | Not directly attributable | - | - | - | - | - ' |
| : | Total attributable to regulated service | | 6,303 | | | |
| | Vegetation management | | | | | |
| | Directly attributable | | 10,752 | | | |
| | Not directly attributable | - | - | - | - | - |
| · | Total attributable to regulated service | | 10,752 | | | |
| | Routine and corrective maintenance and inspection | | | | | |
| | Directly attributable | | 13,365 | | | |
| | Not directly attributable | - | - | - | - | - |
| | Total attributable to regulated service | | 13,365 | | | |
| | Asset replacement and renewal | | | | | |
| : | Directly attributable | | 10,531 | | | |
| ı. | Not directly attributable | - | - | - | - | - |
| | Total attributable to regulated service | | 10,531 | | | |
| | System operations and network support | | | | | |
| 7 | Directly attributable | | 16,408 | | | |
| 8 | Not directly attributable | - | 455 | 82 | 537 | - |
| , | Total attributable to regulated service | | 16,863 | | | |
| 2 | Business support | | | | | |
| | Directly attributable | | 1,876 | | | 1 |
| 2 | Not directly attributable | - | 31,257 | 6,166 | 37,423 | - |
| | Total attributable to regulated service | | 33,133 | | | |
| 1 | Operating costs directly attributable | | 59,234 | | | |
| ; | Operating costs not directly attributable | - | 31,712 | 6,248 | 37,960 | _ |
| , | Operational expenditure | | 90,946 | 0,240 | 57,500 | |
| 2 | | | 22,510 | | | |

| | Company Name | Powerco Limited |
|---|--|---|
| | For Year Ended | 31 March 2021 |
| CHEDULE 5d: REPORT ON COST ALLOCATIONS | | |
| | ust provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), | including on the impact of any reclassification |
| | of the ID determination), and so is subject to the assurance report required by section 2.8. | |
| f | | |
| | | |
| 5d(ii): Other Cost Allocations | | |
| Pass through and recoverable costs | (\$000) | |
| Pass through costs | | |
| Directly attributable | 3,594 | |
| Not directly attributable | 200 | |
| Total attributable to regulated service | 3,794 | |
| Recoverable costs | | |
| Directly attributable | 99,865 | |
| Not directly attributable | - | |
| Total attributable to regulated service | 99,865 | |
| | | |
| 5d(iii): Changes in Cost Allocations* † | | |
| | | (\$000) |
| Change in cost allocation 1 | | CY-1 Current Year (CY) |
| Cost category | Original allocation | |
| Original allocator or line items | New allocation | |
| New allocator or line items | Difference | |
| | | |
| Rationale for change | | |
| | | |
| | | |
| | | (\$000) |
| Change in cost allocation 2 Cost category | Original allocation | CY-1 Current Year (CY) |
| Original allocator or line items | New allocation | |
| New allocator or line items | Difference | |
| | | |
| Rationale for change | | |
| | | |
| | | |
| | | (\$000) |
| Change in cost allocation 3 | | CY-1 Current Year (CY) |
| Cost category | Original allocation | |
| Original allocator or line items | New allocation | |
| New allocator or line items | Difference | |
| | | |
| Rationale for change | | |
| | | |
| | | |
| * a change in cost allocation must be completed for each cost allocator she | nge that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocat | or or component |

| | Company Name | Powerco Limited 31 March 2021 |
|---|--|---|
| HEDULE 5e: REPORT ON ASSET ALLOCA | For Year Ended | 31 Warch 2021 |
| | his information supports the calculation of the RAB value in Schedule 4. | |
| s must provide explanatory comment on their cost allocation in | chedule 14 (Mandatory Explanatory Notes), including on the impact of an | y changes in asset allocations. This information is part of audited |
| osure information (as defined in section 1.4 of the ID determina | on), and so is subject to the assurance report required by section 2.8. | |
| | | |
| 5e(i): Regulated Service Asset Values | | |
| Se(I): Regulated Service Asset values | | |
| | | Value allocated (\$000s) |
| | | Electricity distribution |
| | | services |
| Subtransmission lines Directly attributable | | 77.288 |
| Not directly attributable | | - |
| Total attributable to regulated service | | 77,288 |
| Subtransmission cables | | 50.040 |
| Directly attributable Not directly attributable | | |
| Total attributable to regulated service | | 53,342 |
| Zone substations | | · |
| Directly attributable | | 174,244 |
| Not directly attributable Total attributable to regulated service | | 174,244 |
| Distribution and LV lines | | |
| Directly attributable | | 448,045 |
| Not directly attributable | | - |
| Total attributable to regulated service Distribution and LV cables | | 448,045 |
| Directly attributable | | 316,756 |
| Not directly attributable | | - |
| Total attributable to regulated service | | 316,756 |
| Distribution substations and transformers Directly attributable | | 273,232 |
| Not directly attributable | | |
| Total attributable to regulated service | | 273,232 |
| Distribution switchgear | | · |
| Directly attributable | | 167,965 |
| Not directly attributable Total attributable to regulated service | | 167,965 |
| Other network assets | | |
| Directly attributable | | 456,480 |
| Not directly attributable Total attributable to regulated service | | 456,480 |
| Non-network assets | | 430,460 |
| Directly attributable | | 16,028 |
| Not directly attributable | | 70,426 |
| Total attributable to regulated service | | 86,454 |
| Regulated service asset value directly attributable | | 1,983,381 |
| Regulated service asset value not directly attributab | | 70,426 |
| Total closing RAB value | | 2,053,806 |
| | | |
| 5e(ii): Changes in Asset Allocations* † | | (1000) |
| 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 | | |
| | | |
| | | (\$000) |
| Change in asset value allocation 2 | | CY-1 Current Year (CY) |
| Asset category | | Original allocation |
| Original allocator or line items New allocator or line items | | New allocation Difference – – |
| New allocator or line items | | Difference |
| Rationale for change | | |
| | | |
| | | (\$000) |
| Change in asset value allocation 3 | | CY-1 Current Year (CY) |
| Asset category | | Original allocation |
| Original allocator or line items New allocator or line items | | New allocation Difference – – |
| new anotator of line items | | |
| Rationale for change | | |
| | | |
| | | |
| * a change in asset allocation must be completed for each allo | ator or component change that has occurred in the disclosure year. A mo | vement in an allocator metric is not a change in allocator |

| | Company Name | Powerco Lim | ited |
|----------|--|---|-----------------|
| | For Year Ended | 31 March 20 | |
| | | 51 1101 01 20 | |
| S | CHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR | | |
| ex ED | his schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which ccluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must e DBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). his information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assura | exclude finance costs. | |
| | | | |
| sch re | ef | | |
| | | | |
| 7 | 6a(i): Expenditure on Assets | (\$000) | (\$000) |
| 8 | Consumer connection | | 40,770 |
| 9 | System growth | | 50,261 |
| 10 | Asset replacement and renewal | | 116,468 |
| 11 | Asset relocations | | 1,009 |
| 12 | Reliability, safety and environment: | | |
| 13 | Quality of supply | 10,936 | |
| 14 | Legislative and regulatory | - | |
| 15 | Other reliability, safety and environment | 7,187 | |
| 16 | Total reliability, safety and environment | | 18,123 |
| 17 | Expenditure on network assets | | 226,631 |
| 18 | Expenditure on non-network assets | | 15,058 |
| 19 | | | |
| 20 | Expenditure on assets | | 241,689 |
| 21 | plus Cost of financing | | 1,647 |
| 22 | less Value of capital contributions | | 27,364 |
| 23 | plus Value of vested assets | | - |
| 24 | | , in the second s | _ |
| 25 | Capital expenditure | | 215,972 |
| | | l de la companya de l | |
| 26 | 6a(ii): Subcomponents of Expenditure on Assets (where known) | | (\$000) |
| 27 | Energy efficiency and demand side management, reduction of energy losses | | 2,631 |
| 28 | Overhead to underground conversion | | 1,363 |
| 29 | | | 305 |
| 29 | Research and development | | 305 |
| 30 | 6a(iii): Consumer Connection | | |
| | | (\$000) | (\$200) |
| 31 | Consumer types defined by EDB* | (\$000) | (\$000) |
| 32 | Small | 29,684 | |
| 33 | Commercial | 6,437 | |
| 34 | Industrial | 4,649 | |
| 35 | | | |
| 36 | | | |
| 37 | * include additional rows if needed | | |
| 38 39 | Consumer connection expenditure | | 40,770 |
| 40 | less Capital contributions funding consumer connection expenditure | 26,982 | |
| 41 | Consumer connection less capital contributions | | 13,788 |
| | | I | Asset |
| 42 | 6a(iv): System Growth and Asset Replacement and Renewal | | Replacement and |
| 43 | | System Growth | Renewal |
| 44 | | (\$000) | (\$000) |
| 45 | Subtransmission | 9,394 | 8,844 |
| 46 | Zone substations | 15,091 | 12,692 |
| 47 | Distribution and LV lines | 6,115 | 65,368 |
| 48 | Distribution and LV cables | 10,073 | 7,400 |
| 49 | Distribution substations and transformers | 3,781 | 8,752 |
| 50 | Distribution switchgear | 184 | 8,013 |
| 51 | Other network assets | 5,622 | 5,398 |
| 52 | System growth and asset replacement and renewal expenditure | 50,261 | 116,468 |
| 53 | less Capital contributions funding system growth and asset replacement and renewal | - | - |
| 54 | System growth and asset replacement and renewal less capital contributions | 50,261 | 116,468 |
| 55 | | | |
| 55 | | | |
| 56 | 6a(v): Asset Relocations | | |
| 57 | Project or programme* | (\$000) | (\$000) |
| 58 | Domain Rd, Papamoa, OHUG | 319 | (1) |
| 59 | PNCC Intersection redevelopment | 272 | |
| 60 | Waikino and Waihou GXP Cable Relocation | 182 | |
| 61 | | 102 | |
| 62 | | | |
| | * include additional rows if needed | | |
| 63 64 | * include additional rows if needed All other projects or programmes - asset relocations | 236 | |
| | All other projects or programmes - asset relocations | 236 | 1.000 |
| 65 | Asset relocations expenditure | 202 | 1,009 |
| 66 | less Capital contributions funding asset relocations | 382 | |
| 67 | Asset relocations less capital contributions | | 627 |

| | | Company Name Powerco Limited For Year Ended 31 March 2021 |
|------------|---|--|
| c | CHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCL | for real Endea |
| | is chedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, includi | |
| | cluding assets that are vested assets. Information on expenditure on assets much the discussive year, media | |
| | DBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes his information is part of audited disclosure information (as defined in section 1.4 of the ID determination | |
| | ins mormation is part of addited disclosure mormation (as defined in section 1.4 of the fD determination | , and so is subject to the assurance report required by section 2.6. |
| | | |
| sch re | ef I | |
| 68 | | |
| 69 | 6a(vi): Quality of Supply | |
| 70 | Project or programme* | (\$000) (\$000) |
| 71 | Mobile Substation Site Preparation | 328 |
| 72 | COVID Generation Projects | 1,352 |
| 73 74 | Accellerated LFI Rollout Automation Projects | 1,524 |
| 75 | Backfeed support | 859 |
| 76 | * include additional rows if needed | |
| 77 78 | All other projects programmes - quality of supply Quality of supply expenditure | 6,296 |
| 79 | less Capital contributions funding quality of supply | |
| 80 | Quality of supply less capital contributions | 10,936 |
| | | |
| 81 82 | 6a(vii): Legislative and Regulatory Project or programme* | (\$000) (\$000) |
| 82 | Project or programme* Nil projects or programmes | (\$000) (\$000) |
| 84 | | |
| 85 | | |
| 86 87 | | |
| 87 | * include additional rows if needed | |
| 89 | All other projects or programmes - legislative and regulatory | |
| 90 | Legislative and regulatory expenditure | |
| 91 92 | less Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions | |
| 52 | | |
| 93 | 6a(viii): Other Reliability, Safety and Environment | |
| 94 | Project or programme* | (\$000) (\$000) |
| 95 96 | LIDAR and Poletop Photography Locks and Keys project | 4,383 |
| 97 | Safety Reconductoring | 380 |
| 98 | | |
| 99 100 | * include additional rows if needed | |
| 100 | All other projects or programmes - other reliability, safety and environment | 1,666 |
| 102 | Other reliability, safety and environment expenditure | 7,187 |
| 103 | less Capital contributions funding other reliability, safety and environment | - |
| 104 105 | Other reliability, safety and environment less capital contributions | 7,187 |
| 105 | | |
| 106 | 6a(ix): Non-Network Assets | |
| 107 108 | Routine expenditure Project or programme* | (\$000) (\$000) |
| 108 | IT Renewal | (\$000) (\$000) |
| 110 | Improve network Operations (OMS/DMS) | 1,646 |
| 111 | Cloud Transition | 1,409 |
| 112 113 | IT Leases Data & Analytics | 1,304 850 |
| 113 | Land and Building leases | 688 |
| 115 | IT Transformation | 339 |
| 116 | * include additional rows if needed | |
| 117 118 | All other projects or programmes - routine expenditure Routine expenditure | 1,172 9,308 |
| | | 3,300 |
| 119 120 | Atypical expenditure Project or programme* | (\$000) (\$000) |
| 120 | Enterprise Asset Management System | (\$000) (\$000) |
| 122 | Kaimai Redevelopment | 918 |
| 123 | Cybersecurity | 691 |
| 124 | End User Experience | 684 |
| 125 126 | * include additional rows if needed | |
| 127 | All other projects or programmes - atypical expenditure | 248 |
| 128 | Atypical expenditure | 5,750 |
| 129 130 | Expenditure on non-network assets | 15,058 |
| 150 | | 15,058 |

| | Company Name | Powerco | Limited |
|-----------|---|---------------|---------|
| | For Year Ended | 31 March 2021 | |
| S | CHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR | | |
| ED exj | is schedule requires a breakdown of operational expenditure incurred in the disclosure year. Bs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory penditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insura is 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 | nce. | |
| h r | | | |
| 7 | 6b(i): Operational Expenditure | (\$000) | (\$000) |
| 8 | Service interruptions and emergencies | 6,303 | |
| 9 | Vegetation management | 10,752 | |
| 0 | Routine and corrective maintenance and inspection | 13,365 | |
| 1 | Asset replacement and renewal | 10,531 | |
| 2 | Network opex | | 40,95 |
| 3 | System operations and network support | 16,863 | |
| 4 | Business support | 33,133 | |
| 5 | Non-network opex | L | 49,99 |
| 16 | | _ | |
| 17 | Operational expenditure | L | 90,940 |
| 8 | 6b(ii): Subcomponents of Operational Expenditure (where known) | | |
| 9 | Energy efficiency and demand side management, reduction of energy losses | | 17 |
| 20 | Direct billing* | | - |
| 21 | Research and development | | 5 |
| 2 | Insurance | | 1,31 |
| | * Direct billing expenditure by suppliers that directly bill the majority of their consumers | | |

| Company Name | Powerco Limited |
|----------------|-----------------|
| For Year Ended | 31 March 2021 |

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.

| 7 | 7(i): Revenue | Target (\$000) ¹ | Actual (\$000) | % variance |
|----------|--|-------------------------------|----------------|-----------------|
| 8 | | 351,589 | 353,313 | 0% |
| 9 | | Forecast (\$000) ² | Actual (\$000) | % variance |
| 10 | Consumer connection | 47,661 | 40,770 | (14%) |
| 11 | System growth | 65,393 | 50,261 | (23%) |
| 12 | Asset replacement and renewal | 93,202 | 116,468 | 25% |
| 13 | Asset relocations | 3,166 | 1,009 | (68%) |
| 14 | Reliability, safety and environment: | | | (00)-4 |
| 15 | Quality of supply | 3,859 | 10,936 | 183% |
| 16 | | - | | |
| 17 | Other reliability, safety and environment | 3,353 | 7,187 | 114% |
| 18 | | 7,212 | 18,123 | 151% |
| 19 | | 216,634 | 226,631 | 5% |
| 20 | Expenditure on non-network assets | 16,736 | 15,058 | (10%) |
| 21 | Expenditure on assets | 233,370 | 241,689 | 4% |
| 22 | 7(iii): Operational Expenditure | | | |
| 23 | Service interruptions and emergencies | 7,742 | 6,303 | (19%) |
| 24 | Vegetation management | 9,726 | 10,752 | 11% |
| 25 | | 16,788 | 13,365 | (20%) |
| 26 | Asset replacement and renewal | 12,115 | 10,531 | (13%) |
| 27 | Network opex | 46,371 | 40,950 | (12%) |
| 28 | System operations and network support | 18,633 | 16,863 | (9%) |
| 29 | Business support | 34,656 | 33,133 | (4%) |
| 30 | Non-network opex | 53,289 | 49,996 | (6%) |
| 31 | Operational expenditure | 99,660 | 90,946 | (9%) |
| 32 | 7(iv): Subcomponents of Expenditure on Assets (where known) | | | |
| 33 | Energy efficiency and demand side management, reduction of energy losses | _ | 2,631 | - |
| 34 | Overhead to underground conversion | _ | 1,363 | - |
| 35 | Research and development | - | 305 | - |
| 36 | | _ | | |
| 37 | 7(v): Subcomponents of Operational Expenditure (where known |) | | |
| 38 | Energy efficiency and demand side management, reduction of energy losses | _ | 178 | - |
| 39 | Direct billing | _ | - | - |
| 40 | Research and development | _ | 57 | - |
| 41 | Insurance | _ | 1,314 | - |
| 42 43 | | 3) of this determinat | ion | |
| 44 | 2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6 | | | eginning of the |

| Company Name | Powerco Limited |
|---|-----------------|
| For Year Ended | 31 March 2021 |
| SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPEN | IDITURE |

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.

| | | | | | | | | | | Company Name For Year Ended | | | Powerco 31 Man | | |
|-------------|---|---|--|----------------|--|---|------------------------|----------------------|--------------------|--------------------------------|------------------------|-----------|-------------------|--------------------|-----------------------|
| | | | | | | | | | Network / Sub- | Network Name | | | Powerco | Limited | |
| dule requir | | ociated line charge revenues for ea | NE CHARGE REVENUE: ch price category code used by the | | Information is also required | n the number of ICPs that are included in each consumer group or price catego | ry code, and the ene | rgy delivered to the | se ICPs. | | | | | | |
| (.). 5 | | | | | | | | | | | | | | | |
| | | | | | | Price component | Billed quantities by | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed |
| | Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | | Energy delivered to ICPs in disclosure year (MWh) | Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days |
| | nmetered | Streetlights | Standard | 538 | 7,014 | | | - | 7.014.186 | - | - | - | - | - | 9,437,896 |
| _ | mall | Residential/Small Commercial | Standard | 345,406 | 2,713,158 | | 121,919,143 | - | 616,240,183 | 671,799,449 | 1,562,370,364 | 3.867.363 | - | - | 3,437,890 |
| N | ledium | Commercial | Standard | 1,601 | 249,906 | | 567,164 | - | 249,982,826 | - | - | 30,363 | 13,241 | 41,049 | - |
| L | arge | Large Commercial/Industrial | Standard | 241 | 350,942 | | - | 2,381,292 | 350,941,602 | - | 1 | 108,847 | 47,993 | 65,156 | - |
| L | arge | XLarge Commercial/Industrial | Non-standard | 405 | 1,558,840 | | 143,840 | - | 1,314,455,225 | - | - | - | - | 148,789 | - |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| A | dd extra rows for additional cons | sumer groups or price category cod | | | | | | | | | | | | | |
| | | | Standard consumer totals | 347,786 | 3,321,020 | | 122,486,307 | 2,381,292 | | 671,799,449 | 1,562,370,364 | 4,006,572 | 61,234 | 106,205 | 9,437,896 |
| | | | Non-standard consumer totals Total for all consumers | 405 348.191 | 1,558,840 | | 143,840 122.630.147 | 2.381.292 | 1,314,455,225 | 671.799.449 | - | 4.006.572 | - 61.234 | 148,789 254,994 | 9.437.896 |
| | | | | | | | | | | | | | | | |

| This schedule | le requires the billed quantities and | | ach price category code used by the | | Information is also required | d on the number c | of ICPs that are in | cluded in each consu | mer group or price categor | y code, and the ener | rgy delivered to the | F Network / Sub-I | ompany Name 'or Year Ended letwork Name | | | Powercc 31 Mar Powercc | ch 2021 | | |
|---------------------------|--|---|---|---|---|-------------------|---|--|--|----------------------|--|----------------------|---|------------------------|-----------|------------------------------|--------------|-----------------------|--|
| This schedule | le requires the billed quantities and | associated line charge revenues for ea | ach price category code used by the | | Information is also required | d on the number o | of ICPs that are in | cluded in each consu | mer group or price categor | y code, and the ener | rgy delivered to the | Network / Sub-I | | | | | | | |
| This scheduk | le requires the billed quantities and | associated line charge revenues for ea | ach price category code used by the | | Information is also required | d on the number o | of ICPs that are in | cluded in each consu | mer group or price categor | y code, and the ener | rgy delivered to the | | letwork Name | | | Powerco | Limited | | |
| This scheduk | le requires the billed quantities and | associated line charge revenues for ea | ach price category code used by the | | Information is also required | d on the number o | of ICPs that are in | cluded in each consu | mer group or price categor | y code, and the ener | rgy delivered to the | se ICPs | | | | | | | |
| 31 6(1 32 33 | j. Line Charge Revenues | (3000) by Frice component | due 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. | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | Line charge revenu | es (\$000) by price c | omponent | | | | | | 1 | 4 |
| | | | | | | | | | Price component | Fixed | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed | |
| 35 36 | Consumer group name or po category code | rice 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) | | otal distribution line charge revenue | Total transmission line charge revenue (if available) | Rate (eg, \$ per day, \$ per kWh, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days | Add extra columns for additional line charge revenues by price component as necessary |
| 87 | Unmetered | Streetlights | Standard | \$1,682 | - | | \$1,076 | \$607 | | - | - | \$238 | - | - | - | - | - | \$1,444 | |
| 8 | Small | Residential/Small Commercial | Standard | \$264,602 | - | | \$198,926 | \$65,676 | | \$37,390 | - | \$39,923 | \$90,118 | \$97,171 | - | - | - | - | 1 |
| 1 | Medium | Commercial | Standard | \$21,890 | - | | \$16,814 | \$5,075 | | \$6,641 | - | \$9,296 | - | - | \$3,894 | \$1,772 | \$287 | - | |
| 1 | Large | Large Commercial/Industrial | Standard | \$18,530 | - | | \$12,163 | \$6,367 | | - | \$4,535 | - | - | - | \$7,172 | \$6,367 | \$456 | - | |
| | Large | XLarge Commercial/Industrial | Non-standard | \$46,608 | - | | \$28,142 | \$18,466 | | \$45,567 | - | - | - | - | - | - | \$1,042 | - | |
| | | | | - | | | | | | | | | | | | | | | 1 |
| 1 | | | [Select one] | - | | | | | | | | | | | | | | | _ |
| | | | [Select one] | - | | | | | | | | | | | | | | | - |
| | | | [Select one] | - | | | | | | | | | | | | | | | - |
| | | | [Select one] | - | | | | | | | | | | | | ! | ! | I | 1 |
| | Add extra rows for additional | consumer groups or price category cod | | \$306,705 | | | \$228,980 | \$77,725 | | \$44,031 | \$4,535 | \$49,457 | \$90,118 | \$97,171 | \$11,066 | 1 | | | |
| | | | Standard consumer totals Non-standard consumer totals | \$306,705 \$46,608 | - | - | \$228,980 \$28,142 | \$18,466 | | \$44,031 \$45,567 | \$4,535 | \$49,457 | \$90,118 | \$97,171 | \$11,066 | | | | |
| 0 | | | Total for all consumers | | | | \$257,122 | \$96,191 | | \$89,598 | \$4,535 | \$49,457 | \$90,118 | \$97,171 | \$11,066 | | | | |
| 51 | | | | 222,022 | | | <i>4237,122</i> | \$50,151 | | 303,330 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | <i>43,431</i> | \$50,110 | \$37,171 | \$11,000 | | | | |
| 52 8(ii | ii): Number of ICPs direct | ly billed | | _ | | | Check | ОК | | | | | | | | | | | |
| 53 | Number of directly billed ICF | a at year and | 13 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | 1 | | | | | |
|-------|--|---|---|---------|--|---|-----------------------|-----------------------|----------------------------|--------------------|------------------------|-----------|---------------|------------------|-----------------------|--|
| | | | | | | | | | | Company Name | | | Powerco | | | |
| | | | | | | | | | | For Year Ended | | | 31 Mai | rch 2021 | | |
| | | | | | | | | | Network / Sub | Network Name | | | Wester | n Region | | |
| | LE 8: REPORT ON BILLEE requires the billed quantities and ass | | | | ormation is also require | on the number of ICPs that are included in each consumer group or price categor | ry code, and the ener | rgy delivered to thes | e ICPs. | | | | | | | |
| 8(i): | Billed Quantities by Price | Component | | | | | | | | | | | | | | |
| | | | | | | | Billed quantities by | price component | | | | r | | 1 | r | - |
| | | | | | | Price component | Fixed | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed | |
| | Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | | nergy delivered to ICPs disclosure year (MWh) | Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days | Add extra co for additio billed quan by price componen |
| | - | Residential/Small Commercial | Standard | 182,285 | 1,475,615 | | | | | 480.733.620 | | 3.867.363 | | | | necessa |
| | E1 E100 | Residential/Small Commercial | Standard | 182,285 | 1,4/5,615 87,242 | | 63,885,483 83,203 | | 87.241.611 | 480,733,620 | 1,126,260,107 | 3,867,363 | - 13,241 | - 30.047 | - | - |
| | E300/R | Large Commercial/Industrial | Standard | 233 | 350.942 | | 83,203 | 2.381.292 | 87,241,611 350.941.602 | | | 30,363 | 13,241 47,993 | 30,047 | | - |
| | SPECIAL | XLarge Commercial/Industrial | Non-standard | 45 | 302,235 | | 12.440 | - | 302.234.712 | _ | _ | - | 47,555 | 25.094 | _ | 1 |
| | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | | | | | |
| | Add extra rows for additional con | sumer groups or price category cod | | | | | | | | | | | | | | - |
| | | | Standard consumer totals | 182,759 | 1,913,798 302,235 | | 63,968,686 12,440 | 2,381,292 | 438,183,213 302,234,712 | 480,733,620 | 1,126,260,107 | 4,006,572 | 61,234 | 95,203 25,094 | - | - |
| | | | | | | | | | | | | | | | | |
| | | | Non-standard consumer totals Total for all consumers | 45 | 2,216,033 | | 63.981.126 | 2.381.292 | 740.417.925 | 480.733.620 | 1.126.260.107 | 4.006.572 | 61.234 | | | - |

| | | | | | | | | | | | | Company Name For Year Ended | | | Powerco 31 Mar | ch 2021 | | |
|-----------|---|--|--|---|---|--|--|--|---------------------|-----------------------|--------------------|--------------------------------|------------------------|-----------|-------------------|--------------|-----------------------|-----------------|
| | | | INE CHARGE REVENUE | c . | | | | | | | Network / Sub- | Network Name | | | Western | 1 Region | | |
| | | | ach price category code used by the | | Information is also required | d on the number of ICPs that are ir | cluded in each cons | umer group or price categor | y code, and the ene | rgy delivered to the | se ICPs. | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 8(ii): L | ine Charge Revenues (\$0 | 00) by Price Componen | t | | | | | | | | | | | | | | | |
| | | | | | | | | | Line charge revenu | es (\$000) by price o | omponent | | | | | | | |
| | | | | | | | | Price component | Fixed | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed | |
| | 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) | Rate (eg, \$ per day, \$ per kWh, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days | by pr compon |
| | E1 | Residential/Small Commercial | Standard | \$143,598 | | \$111,635 | \$31,963 | 1 | \$5,459 | - | - | \$62,182 | \$75,957 | - | - | - | - | neces |
| | E100 | Commercial | Standard | \$6,678 | | \$4,906 | \$1,772 | | \$802 | - | - | - | - | \$3,894 | \$1,772 | \$210 | - | |
| | E300/R | Large Commercial/Industrial | Standard | \$18,530 | | \$12,163 | \$6,367 | - | - | \$4,535 | - | - | - | \$7,172 | \$6,367 | \$456 | - | |
| | SPECIAL | XLarge Commercial/Industrial | Non-standard | \$9,990 | | \$4,906 | \$5,084 | | \$9,815 | - | - | - | - | - | - | \$176 | - | _ |
| | | | | - | | | | - | | | | | | | | | + | _ |
| | | | | - | | | | - | | | | | | | | | | - |
| | | | | - | | | | | | | | | | | | | | - |
| | | | | - | | | | - | | | | | | | | | | - |
| | | | | - | | | | | | | | | | | | | 1 | - |
| | Add extra rows for additional cor | sumer groups or price category co | des as necessary | | • • • • • • | | | • | | | | | | | | | | 7 |
| | | | Standard consumer totals | \$168,807 | - | \$128,705 | \$40,102 | | \$6,261 | \$4,535 | - | \$62,182 | \$75,957 | \$11,066 | | | | |
| | | | Non-standard consumer totals | \$9,990 | - | \$4,906 | \$5,084 | | \$9,815 | - | - | - | - | - | | | | |
| | | | Total for all consumers | \$178,797 | - | \$133,611 | \$45,186 | | \$16,076 | \$4,535 | - | \$62,182 | \$75,957 | \$11,066 | | | | |
| | | | | | | | | _ | | | | | | | | | | |
| 8(iii): I | Number of ICPs directly | oilled | | | | Check | OK | | | | | | | | | | | |
| | Number of directly billed ICPs a | vear end | 5 | | | | | - | | | | | | | | | | |

| | | | NE CHARGE REVENUE ach price category code used by the | | iormation is also require | on the number of ICPs that are included in each consumer group or price categor | ry code, and the ener | gy delivered to the | Network / Sub | Company Name For Year Ended -Network Name | | | 31 Ma | o Limited rch 2021 n Region | | |
|----------|---|---|--|---------|--|---|-----------------------|---------------------|--------------------|---|------------------------|-----------|-----------|-----------------------------------|-----------------------|---|
| | | | | | | | | | | | | | | | | |
| 8(i): Bi | illed Quantities by Price | Component | | | | | | | | | | | | | | |
| | | | | | | | Billed quantities by | price component | | | | | | | | |
| | | | | | | Price component | Fixed | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed | |
| | Consumer group name or price category code | Consumer type or types (eg, residential, commercial etc.) | Standard or non-standard consumer group (specify) | | nergy delivered to ICPs disclosure year (MWh) | Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days | Add extra for add billed qu by p compor |
| | T01, T02, V01, V02 | Streetlights/Unmetered | Standard | 538 | 7,014 | | | | 7.014.186 | - | - | - | - | - | 9.437.896 | nece |
| | T05, T06, V05, V06 | Residential/Small Commercial | Standard | 163,121 | 1,237,543 | | 58.033.660 | - | 616.240.183 | 191.065.829 | 436.110.257 | - | - | - | - | - |
| | T22, T24, V24, V28, T41 | Commercial | Standard | 1,368 | 162,664 | | 483,961 | - | 162,741,215 | - | - | - | - | 11,002 | - | 1 |
| | T43 | Large Commercial | Standard | 0 | 0 | | - | - | - | - | - | - | - | - | - | 1 / |
| | V40, T50, T60, V60 | XLarge Commercial/Industrial | Non-standard | 360 | 1,256,605 | | 131,400 | - | 1,012,220,513 | - | - | - | - | 123,695 | - | |
| | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | L | I | | 1 |
| | Add extra rows for additional con | isumer groups or price category coo | des as necessary Standard consumer totals | 165,027 | 1,407,222 | | 58,517,621 | _ | 785,995,584 | 191,065,829 | 436,110,257 | _ | - | 11,002 | 9,437,896 | 1 |
| | | | Non-standard consumer totals | | 1,256,605 | | 131,400 | - | 1,012,220,513 | - | - | - | - | 123,695 | - | 1 |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | Network / Sub- | For Year Ended Network Name | | | | rch 2021 n Region | | |
|------|---|---|--|---|---|--|--|--|---------------------|-----------------------|--------------------|--------------------------------|------------------------|-----------|-----------|----------------------|-----------------------|---|
| | | | INE CHARGE REVENUE tach price category code used by the | | Information is also required | d on the number of ICPs that are ir | ncluded in each cons | umer group or price categor | y code, and the ene | rgy delivered to the | | | | | | | | |
| ii): | Line Charge Revenues (\$ | 000) by Price Componen | t | | | | | | | | | | | | | | | |
| | | | | | | | | | Line charge revenu | es (\$000) by price o | omponent | | | | | | | |
| | | | | | | | | Price component | Fixed | Fixed | Variable (Anytime) | Variable (Peak) | Variable (Off-Peak) | Demand | Demand | Power Factor | Fixed | |
| | 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) | Rate (eg, \$ per day, \$ per kWh, etc.) | ICP Days | kVA of Capacity | kWh | kWh | kWh | kW of AMD | kW of OPD | kVArh | Fixture Count Days | Add of for a charter of the content |
| | T01, T02, V01, V02 | Streetlights/Unmetered | Standard | \$1,682 | | \$1,076 | \$607 | 1 | - | - | \$238 | - | - | - | - | - | \$1,444 | |
| | T05, T06, V05, V06 | Residential/Small Commercial | Standard | \$121,004 | | \$87,291 | \$33,713 | | \$31,931 | - | \$39,923 | \$27,936 | \$21,214 | - | - | - | - | |
| | T22, T24, V24, V28, T41 | Commercial | Standard | \$15,212 | | \$11,908 | \$3,304 | | \$5,839 | - | \$9,296 | - | - | - | - | \$77 | - | 3 |
| | T43 | Large Commercial | Standard | - | | - | - | | - | - | - | - | - | - | - | - | - | |
| | V40, T50, T60, V60 | XLarge Commercial/Industrial | Non-standard | \$36,618 | | \$23,236 | \$13,382 | | \$35,752 | - | - | - | - | - | - | \$866 | - | |
| | | | | - | | | | | | | | | | | | | | _ / |
| | | | | - | | | | | | | | | | | | | | _ |
| | | | | - | | | | | | | | | | | | | | - |
| | | | | - | | | | | | | | | | | | | ł | - |
| | Add outra rours for additional co | nsumer groups or price category co | das as apsossans | - | ll | L | l | 1 | L | l | I | | | | L | l | L | _ |
| | Add Extra rows for dualitonal co | isumer groups or price category co | Standard consumer totals | \$137,898 | - | \$100,275 | \$37,623 | 1 | \$37,769 | | \$49,457 | \$27,936 | \$21,214 | - | | | | |
| | | | Non-standard consumer totals | \$36,618 | _ | \$23,236 | \$13,382 | | \$35,752 | _ | 343,437 | \$21,550 | \$21,214 - | | | | | |
| | | | Total for all consumers | \$174,516 | - | \$123,511 | \$51,006 | 1 | \$73,522 | - | \$49,457 | \$27,936 | \$21,214 | - | | | | |
| | | | | | | | | - | | | | | | | | | | |
| | Number of ICPs directly | billed | | | | Check | 01 | 7 | | | | | | | | | | |

| | Company Name | Powerco Limited |
|-----------------------------|---------------------------|-----------------|
| | For Year Ended | 31 March 2021 |
| Λ | etwork / Sub-network Name | Powerco Limited |
| 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.

| | | | | | Items at start of | Items at end of | | Data accuracy |
|---|---------|-----------------------------|--|-------|-------------------|-------------------|------------|---------------|
| 8 | Voltage | Asset category | Asset class | Units | year (quantity) | year (quantity) | Net change | (1–4) |
| 9 | All | Overhead Line | Concrete poles / steel structure | No. | 228,709 | 230,010 30,998 | 1,301 | 4 |
| 0 | All | Overhead Line | Wood poles | No. | 32,014 | | (1,016) | |
| 1 | All | Overhead Line | Other pole types | No. | 3,594 | 3,703 | 109 | 2 |
| 2 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 1,496 | 1,494 | (2) | 4 |
| 3 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | - | - | - | 4 |
| 4 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 229 | 240 | 11 | 3 |
| 5 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | 13 | 13 | 0 | 4 |
| 6 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | - | - | - | 4 |
| 7 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | 3 | 1 | (2) | 4 |
| 8 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | - | - | - | 4 |
| 9 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | - | - | - | 4 |
| 0 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | - | - | - | 4 |
| 1 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | - | - | - | 4 |
| 2 | HV | Subtransmission Cable | Subtransmission submarine cable | km | - | - | - | 4 |
| 3 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | 154 | 156 | 2 | 2 |
| 4 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | - | - | - | 4 |
| 5 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | - | - | - | 4 |
| 6 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 19 | 19 | - | 4 |
| 7 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | 29 | 30 | 1 | 2 |
| 8 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 823 | 822 | (1) | 4 |
| 9 | HV | Zone substation switchgear | 33kV RMU | No. | 1 | 1 | - | 4 |
| 0 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | 142 | 141 | (1) | 3 |
| 1 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 184 | 183 | (1) | 3 |
| 2 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 841 | 850 | 9 | 3 |
| 3 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 50 | 41 | (9) | 3 |
| 4 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 216 | 216 | - | 3 |
| 5 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 14,701 | 14,697 | (4) | 4 |
| 6 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | - | - | - | 4 |
| 7 | HV | Distribution Line | SWER conductor | km | 79 | 79 | 0 | 4 |
| 8 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 1,936 | 1,981 | 45 | 3 |
| 9 | HV | Distribution Cable | Distribution UG PILC | km | 195 | 193 | (2) | 3 |
| 0 | HV | Distribution Cable | Distribution Submarine Cable | km | 11 | 11 | - | 4 |
| 1 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 759 | 789 | 30 | 3 |
| 2 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | 421 | 421 | - | 3 |
| 3 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 39,280 | 39,910 | 630 | 3 |
| 4 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 1,590 | 1,736 | 146 | 2 |
| 5 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 2,811 | 2,770 | (41) | 2 |
| 6 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 27,278 | 27,787 | 509 | 3 |
| 7 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 8,931 | 9,095 | 164 | 3 |
| 8 | HV | Distribution Transformer | Voltage regulators | No. | 149 | 133 | (16) | 3 |
| 9 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 4,050 | 4,039 | (11) | 2 |
| 2 | LV | LV Line | LV OH Conductor | km | 5,360 | 5,353 | (6) | 3 |
| 1 | LV | LV Cable | LV UG Cable | km | 4,420 | 4,452 | 32 | 3 |
| 2 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 3,043 | 3,043 | 0 | 2 |
| 3 | LV | Connections | OH/UG consumer service connections | No. | 290,633 | 292,472 | 1,839 | 2 |
| 4 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 2,401 | 2,457 | 56 | 3 |
| 5 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 1 | 1 | - | 4 |
| 6 | All | Capacitor Banks | Capacitors including controls | No | 52 | 51 | (1) | 4 |
| 7 | All | Load Control | Centralised plant | Lot | 36 | 36 | - | 4 |
| 8 | All | Load Control | Relays | No | 3,294 | 3,440 | 146 | 2 |
| 9 | All | Civils | Cable Tunnels | km | - | - | - | 4 |

| Company Name | Powerco Limited |
|-----------------------------|-----------------|
| For Year Endea | 31 March 2021 |
| Network / Sub-network Name | Western Region |
| 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.

| 8 | Voltage | Asset category | Asset class | Units | Items at start of year (quantity) | Items at end of year (quantity) | Net change | Data accuracy (1-4) |
|----|---------|-----------------------------|--|-------|--------------------------------------|------------------------------------|------------|------------------------|
| 9 | All | Overhead Line | Concrete poles / steel structure | No. | 147,321 | 148,142 | 821 | 4 |
| 10 | All | Overhead Line | Wood poles | No. | 27,886 | 27,055 | (831) | 3 |
| 11 | All | Overhead Line | Other pole types | No. | 1,187 | 1,277 | 90 | 2 |
| 12 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 952 | 952 | (0) | 4 |
| 13 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | - | - | - | 4 |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 80 | 86 | 6 | 3 |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | 13 | 13 | 0 | 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 | 3 | 1 | (2) | 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. | 85 | 85 | - | 2 |
| 24 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | - | - | - | 4 |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | - | - | - | 4 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | - | - | - | 4 |
| 27 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | 18 | 19 | 1 | 2 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 528 | 531 | 3 | 4 |
| 29 | HV | Zone substation switchgear | 33kV RMU | No. | 1 | 1 | - | 4 |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | 69 | 68 | (1) | 3 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 107 | 106 | (1) | 3 |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 467 | 471 | 4 | 3 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 46 | 41 | (5) | 3 |
| 34 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 127 | 129 | 2 | 3 |
| 35 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 10,072 | 10,068 | (4) | 4 |
| 36 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | - | - | - | 4 |
| 37 | HV | Distribution Line | SWER conductor | km | 17 | 17 | - | 4 |
| 38 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 670 | 685 | 15 | 3 |
| 39 | HV | Distribution Cable | Distribution UG PILC | km | 95 | 95 | (0) | 3 |
| 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. | 444 | 453 | 9 | 3 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | 279 | 279 | - | 3 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 24,233 | 24,514 | 281 | 3 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 766 | 829 | 63 | 2 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 1,233 | 1,222 | (11) | 2 |
| 46 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 18,442 | 18,912 | 470 | 3 |
| 47 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 3,725 | 3,870 | 145 | 3 |
| 48 | HV | Distribution Transformer | Voltage regulators | No. | 101 | 76 | (25) | 3 |
| 49 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 1,612 | 1,604 | (8) | 2 |
| 50 | LV | LV Line | LV OH Conductor | km | 3,451 | 3,448 | (3) | 3 |
| 51 | LV | LV Cable | LV UG Cable | km | 2,315 | 2,334 | 19 | 3 |
| 52 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 1,371 | 1,370 | (1) | 2 |
| 53 | LV | Connections | OH/UG consumer service connections | No. | 155,797 | 156,326 | 529 | 2 |
| 54 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 1,250 | 1,264 | 14 | 3 |
| 55 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 1 | 1 | - | 4 |
| 56 | All | Capacitor Banks | Capacitors including controls | No | 5 | 5 | - | 4 |
| 57 | All | Load Control | Centralised plant | Lot | 27 | 26 | (1) | 4 |
| 58 | All | Load Control | Relays | No | 1,591 | 1,619 | 28 | 2 |
| 59 | All | Civils | Cable Tunnels | km | - | - | - | 4 |
| | | | | | | | | |

| Company Nar | e Powerco Limited |
|-----------------------------|-------------------|
| For Year End | d 31 March 2021 |
| Network / Sub-network Nar | e Eastern Region |
| 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.

| 8 | Voltage | Asset category | Asset class | Units | Items at start of year (quantity) | Items at end of year (quantity) | Net change | Data accuracy (1–4) |
|----|---------|-----------------------------|--|-------|--------------------------------------|------------------------------------|------------|------------------------|
| 9 | All | Overhead Line | Concrete poles / steel structure | No. | 81,388 | 81,868 | 480 | 4 |
| 10 | All | Overhead Line | Wood poles | No. | 4,128 | 3,943 | (185) | 3 |
| 11 | All | Overhead Line | Other pole types | No. | 2,407 | 2,426 | 19 | 2 |
| 12 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | 544 | 542 | (2) | 4 |
| 13 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | - | - | - | 4 |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | 149 | 154 | 5 | 3 |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | - | - | - | 4 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | - | - | - | 4 |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | - | - | - | 4 |
| 18 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | - | - | - | 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | - | - | - | 4 |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | - | - | - | 4 |
| 21 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | - | - | - | 4 |
| 22 | HV | Subtransmission Cable | Subtransmission submarine cable | km | - | - | - | 4 |
| 23 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | 69 | 71 | 2 | 2 |
| 24 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | - | - | - | 4 |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | - | - | - | 4 |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | 19 | 19 | - | 4 |
| 27 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | 11 | 11 | - | 2 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | 295 | 291 | (4) | 4 |
| 29 | HV | Zone substation switchgear | 33kV RMU | No. | - | - | - | 4 |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | 73 | 73 | - | 3 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | 77 | 77 | - | 3 |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | 374 | 379 | 5 | 3 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | 4 | - | (4) | 3 |
| 34 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | 89 | 87 | (2) | 3 |
| 35 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 4,629 | 4,629 | (0) | 4 |
| 36 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | - | - | - | 4 |
| 37 | HV | Distribution Line | SWER conductor | km | 61 | 61 | 0 | 4 |
| 38 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 1,266 | 1,296 | 29 | 3 |
| 39 | HV | Distribution Cable | Distribution UG PILC | km | 100 | 98 | (2) | 3 |
| 40 | HV | Distribution Cable | Distribution Submarine Cable | km | 11 | 11 | - | 4 |
| 41 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 315 | 336 | 21 | 3 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | 142 | 142 | - | 3 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 15,047 | 15,396 | 349 | 3 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | 824 | 907 | 83 | 2 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 1,578 | 1,548 | (30) | 2 |
| 46 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 8,836 | 8,875 | 39 | 3 |
| 47 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 5,206 | 5,225 | 19 | 3 |
| 48 | HV | Distribution Transformer | Voltage regulators | No. | 48 | 57 | 9 | 3 |
| 49 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 2,438 | 2,435 | (3) | 2 |
| 50 | LV | LV Line | LV OH Conductor | km | 1,909 | 1,905 | (3) | 3 |
| 51 | LV | LV Cable | LV UG Cable | km | 2,105 | 2,118 | 13 | 3 |
| 52 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 1,672 | 1,673 | 1 | 2 |
| 53 | LV | Connections | OH/UG consumer service connections | No. | 134,836 | 136,146 | 1,310 | 2 |
| 54 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | 1,151 | 1,193 | 42 | 3 |
| 55 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 1 | 1 | - | 4 |
| 56 | All | Capacitor Banks | Capacitors including controls | No | 47 | 46 | (1) | 4 |
| 57 | All | Load Control | Centralised plant | Lot | 9 | 10 | 1 | 4 |
| 58 | All | Load Control | Relays | No | 1,703 | 1,821 | 118 | 2 |
| 59 | All | Civils | Cable Tunnels | km | - | - | - | 4 |
| | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | Company | Name | | | | | - | Powerco | Limited | | | | |
|--|----------------|---|---|-------|--|-----------------------|---------|-------|---------------|--------------|---------|----------|-------|----------|-----------|-------|----------|-------|-------|-------|-------|-----------|-----|-------------------------|---------|-------|---------|-------------------|--------|-------|------|---------|---------|------------|----------------------|------|-------------------|
| | | | | | | | | | | | | | | | | | For Year | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Network / S | | | | | | | | Powerco | Limited | | | | |
| ~ | | | | | | | | | | | | | | | | | | | | | | | | | | | _ | _ | | _ | _ | | | _ | _ | | |
| SCHEDULE 5b: ASSET AGE PROFILe This subdiver reserves and provide fauster or year of mitalitation of the sasters that make up the network, by a sast category and east data. All units relating to cable and line sasts, that are expressed in kin, refer to circuit length. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Disclosure Year (year ended) | 31 March 2021 | | Number of assets at disclosure year end by installation date | | | | | | | | | | | | | | | | | | | | | | No. w | | t No.w | | | | | | | | |
| | | | | | | | | | 1980 -1989 | 1990 1999 | | | | | | | 2005 | | | 2009 | | | | | | | | | 9 2020 | 2021 | | | 2024 | age | | | ult Data accuracy |
| 10 | Voltage All | Asset category Overhead Line | Asset class Concrete poles / steel structure | Units | pre-1940194 | 49 -1959 754 4.637 | | | | | 3 354 | 3 144 | 2002 | 2 337 | 1 902 | 1.809 | 1.853 | 2007 | 2008 | 2.831 | | 2011 20 | | 013 2014 3.307 3.421 | | 2016 | 3 951 3 | 18 201 558 4.3 | | | | 2023 | 2024 | 2025 unkno | 58 230,01 | date | 5 (1-4) |
| 11 | All | Overhead Line | Wood poles | No. | 27 | 36 725 | | | | | | | 380 | | | | | 190 | 95 | 71 | 90 | 34 | 3 | 3 2 | 4 | - | 1 | 11 | | | 26 - | - | - | - | 7 30.99 | | - 3 |
| 12 | All | Overhead Line | Other pole types | No. | | - 4 | 4 37 | 2,730 | 59 | 94 | 21 | 75 | 37 | 41 | 47 | 92 | 70 | 34 | 31 | 23 | 7 | 10 | 2 | 8 3 | 2 | 1 | - | 4 | 13 | 23 13 | 21 - | - | - | - | 14 3,70 | 6 - | . 2 |
| 13 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | - | 2 80 | 322 | 344 | 301 | 226 | 9 | 1 | 3 | 5 | 1 | 15 | 2 | 10 | 4 | 12 | 3 | 34 | 19 | 1 16 | 0 | 11 | 28 | 16 | 15 | 7 | 5 - | - | - | - | 1,49 | 4 | 0 3 |
| 14 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | | | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | - | - | - N/A |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | | | - | 24 | 6 | 21 | 7 | 1 | 6 | 1 | 1 | 1 | 2 | 9 | 2 | 7 | 7 | 19 | 7 | 5 1 | 12 | 3 | 25 | 29 | 19 | 26 | 0 - | - | - | - | - 24 | 0 | 8 4 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | | | 13 | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | 1 | 3 - | . 4 |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | | - | - N/A |
| | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PLC) | km | | | 1 | - | 0 | 0 | - | - | - | - | - | - | - | - | - 1 | - | - | - | - | | - | - 1 | - | | | - | - | - | - | - | - | 1 - | . 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | | | - | - | - 1 | - 1 | | | - | | - | - | - | - | - | - | - | - | - | | - | - | - | - - | | - | - | - | - | - | | - | - N/A |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (OII pressurised) | km | | | - | - | - 1 | - 1 | | | - | | - | - | - | - | - | - | - | - | - | | - | - | - | - - | | - | - | - | - | - | | - | - N/A |
| | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | | | - | - | - 1 | - 1 | | | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - - | | - | - | - | - | - | | - | - N/A |
| 22 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | | - | - | - | - | | - | - N/A |
| 23 | HV | Subtransmission Cable | Subtransmission submarine cable | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | | - | - | - | - | | - | - N/A |
| 24 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | | - 2 | 2 5 | 62 | 13 | 13 | - | - | - | - | 2 | 29 | 2 | 6 | 1 | 1 | 1 | 3 | 2 | 3 3 | 1 | 3 | - | | | 3 | 1 - | - | - | - | - 15 | 6 | 53 2 |
| | HV | Zone substation Buildings | Zone substations 110kV+ | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | - | - | - N/A |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | - | - | - N/A |
| 27 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | | | - | 2 | 4 | 1 | - | - | - | - | - | - | 1 | 7 | - | - | - | - | - | | 3 | - | - | | | | 1 - | - | - | - | - 1 | 9 - | 2 |
| | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | | | - | - | 2 | - | - | - | - | - | - | 1 | - | 1 | 2 | 1 | - | 4 | 3 | 5 2 | 3 | 6 | - | | | - | - | - | - | - | - 3 | 0 - | . 2 |
| | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | | | 120 | 152 | 165 | 117 | 9 | 6 | 1 | 3 | 6 | 10 | 3 | 11 | 11 | 13 | 14 | 13 | 25 | 16 6 | 22 | 39 | 13 | 9 | 18 | 11 | 6 - | - | - | - | 3 82 | 2 - | 2 |
| 30 | HV | Zone substation switchgear | 33kV RMU | No. | | | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | | - | - | - | | - | | - | - | - | - | - | 1 - | - 2 |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | | | - | - | - | 23 | - | - | - | - | - | - | 5 | 6 | 6 | - | 14 | 21 | 6 | 9 8 | - | 23 | 9 | 1 - | | - | - | - | - | - | 10 14 | - | . 2 |
| | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | | | 15 | 20 | 35 | 22 | 7 | 1 | - | 1 | 1 | 5 | - | 4 | 4 | 8 | 1 | 2 | 3 | 4 6 | 8 | 10 | 9 | 6 | 7 | 1 - | - | - | - | - | 3 18 | 9 | . 2 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | | | 85 | 131 | 108 | 117 | 4 | 20 | 1 | 3 | 19 | 12 | 18 | 37 | 18 | 20 | 9 | 33 | 16 | 32 22 | 41 | 46 | 36 | 8 | 13 | 1 - | - | - | - | - | - 85 | | 2 |
| 34 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | | | - | - | 1 | 6 | - | - | - | - | 1 | 1 | - | 1 | - | 3 | 3 | - | 2 | - 4 | 7 | - | 9 | - | 1 - | | 2 - | - | - | - | - 4 | 4 - | 3 |
| | HV | Zone Substation Transformer | Zone Substation Transformers | No. | | - 1 | 1 24 | 30 | 21 | 22 | 2 | 5 | 3 | 4 | 2 | 2 | 5 | 9 | 6 | 2 | 5 | 5 | 6 | 11 12 | 13 | 11 | 1 | 3 | 4 - | | 5 - | - | - | - | 2 21 | 6 - | 2 |
| | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 80 1 | 104 1,285 | 5 2,860 | 3,446 | 3,480 | 1,426 | 48 | 72 | 102 | 79 | 78 | 68 | 81 | 82 | 66 | 84 | 83 | 67 | 97 | 131 119 | 115 | 117 | 126 | 110 1 | 22 1 | 07 (| 64 - | - | - | - | 14,69 | 7 | 29 3 |
| 37 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | | | - | - | - | - | - | - | - | - N/A |
| 38 | HV | Distribution Line | SWER conductor | km | | - 0 | 14 | 30 | 11 | 7 | - | - | - | 5 | - | - | - | 0 | 1 | 0 | 0 | - | - | - 10 | - | 0 | 0 | - | 0 - | - | - | - | - | - | - 7 | 9 - | 3 |
| | HV | Distribution Cable | Distribution UG XLPE or PVC | km | - | 0 5 | | | 395 | 290 | 48 | 41 | 28 | 29 | 41 | 49 | 57 | 56 | 60 | 54 | 48 | 41 | 38 | 41 41 | 45 | 49 | 50 | 45 | 84 1 | 63 | 24 - | - | - | - | 1,98 | | 74 3 |
| | HV | Distribution Cable | Distribution UG PILC | km | | - 1 | 1 24 | 67 | 70 | 19 | 2 | 2 | 2 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 | - | 0 | U | u - | - | - | - | - | - | - 19 | 3 | 5 3 |
| | HV | Distribution Cable | Distribution Submarine Cable | km | | | - | - | 2 | 7 | - | - | - | - | - | - | - | - | - | 1 | - 22 | - | - | 22 26 | | 0 | 0 | | | | - | - | - | - | 27 79 | 1 - | 3 |
| | HV HV | Distribution switchgear Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers 3.3/6.6/11/22kV CB (Indoor) | No. | | - 1 - 1 | 1 1 | 147 | 32 | 29 | 5 | 6 | | 7 | 18 | 13 | 17 | 11 | 12 | 26 | 23 | 4 | 28 | 33 36 | 53 | 95 | /6 | 78 | 54 | 29 | 26 - | - | - | - | 32 78 | | 2 |
| | HV | Distribution switchgear | | NO. | 12 | 16 700 | 2 3 59 | 6 122 | 5 411 | | 201 | 070 | 070 | 2 | 727 | 910 | 906 | - 912 | 769 | 772 | 8 | 2 691 | 770 | 4 5 | 1 372 | 1 292 | 1 561 | 466 1.5 | | 20 0 | - | - | | - | 71 39.91 | | |
| | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | NO. | | 10 589 | 9 2,134 | 6,122 | 5,411 | 7,773 | 395 | 8/9 | 8/0 | 699 | /3/ | 820 | 806 | 613 | /68 | //3 | 762 | 001 | 20 | 838 1,130 | 4,272 | 1,382 | 1,001 1 | 400 1,5 | 1,0 | 30 8 | - 00 | - | - | - | 71 39,91 | | |
| 40 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except HMU 3.3/6.6/11/22kV RMU | NO. | - | 1 4 | 4 /6 | 200 | 228 | 202 | 20 | 30 | 23 | 30 | 55 | 42 | 102 | 122 | 57 | 57 | 3/ | 71 | 38 | 33 15 | 13 | 149 | 167 | 18 | 19 | 27 | | - | - | - | 17 2 77 | ~ | |
| 40 | HV | Distribution switchgear Distribution Transformer | 3.3/6.6/11/22XV RMU Pole Mounted Transformer | NO. | _ | | 3 720 | 2014 | 4.065 | 440 | 5/ | 68 | 40 | 40 | 73 609 | 18 | 102 | 143 | 24 | 108 | 609 | <i>/.</i> | 85 | 87 99 620 603 | 607 | 148 | 407 | 720 0 | 22 5 | 77 6 | - | - | | - | 1/ 2,// 331 27.78 | | |
| 40 | HV | Distribution Transformer | Ground Mounted Transformer | NO. | | - 65 | 3 739 | 4,440 | 4,065 | | 309 | 545 | 533 | | 260 | 251 | 512 | 222 | 105 | 260 | 307 | ~~ | 224 | 100 340 | 392 | 278 | 130 | 133 3 | 34 3 | 77 b. | 26 | - | | - | 43 9.09 | | |
| 49 | HV | Distribution Transformer | Voltage regulators | NO. | | | 1/4 | 0/5 | 4,269 | dbc,1 | 203 | 216 | 108 | c C6T | 202 | 201 | 296 C | 344 | 495 | 4 | 207 | 4 | 6 | 4 8 | 403 | 10 | 5 | 4 3 | 25 | 5 | 3 - | - | _ | - | 7 13 | | |
| 50 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 2 | - 3 | 3 134 | 963 | 1 298 | 811 | 91 | 78 | 60 | 110 | 110 | 41 | 30 | 32 | 43 | 26 | 24 | 11 | 14 | 13 21 | 18 | 16 | 12 | 22 | 19 | 37 - | - | - | - | - | - 4.03 | | 2 3 |
| | LV | LV Line | LV OH Conductor | km. | 1 | 48 100 | 5 1349 | | 1,298 | | 44 | 36 | 20 | 30 | 26 | 22 | 22 | 24 | 25 | 22 | 17 | 17 | 14 | 22 22 | 17 | 23 | 24 | 27 | 26 | 17 | 4 7 | - | | - | 4,03 | | 44 7 |
| 52 | LV | LV Cable | LV UG Cable | km | 0 | 0 9 | 3 1,349 | | 1,004 | 430 | 60 | 33 pn | | 57 | 40 | 110 | 114 | 132 | 128 | 113 | 59 | 44 | 40 | 38 47 | 40 | 68 | 91 | 91 1 | 02 | 50 | 12 | - | | - | 4,45 | | 44 2 |
| | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | _ | 12 97 | 7 348 | 4,070 | 554 | | 00 | 41 | 42 | 27 | 57 | 70 | 62 | 132 | 52 | 212 | 20 | 77 | 10 | 36 47 | 42 | 28 | 22 | 22 | 22 | 10 | | 1 | | - | 3.04 | | 20 2 |
| | LV | Connections | OH/UG consumer service connections | No | 21 1 | 12 87 | | | 46 212 | 920 | 2 165 | 2 062 | 2.0 | 2 019 | 2 707 | 4.008 | 3.753 | 4 409 | 4 202 | 3.678 | 4.327 | | 40 | 2 616 2 602 | 2 050 | 4 182 | 4 970 5 | 186 5.3 | 34 2.0 | ec 2. | | 1 | | - | 292,47 | | 107 |
| 55 | All | Protection | OH/UIs consumer service connections Protection relays (electromechanical, solid state and numeric) | NO. | | | 14,6// | | 46,212 | 32,265 | 2,105 | 2,962 | 2,457 | 5,029 | 3,707 | 4,008 | 3,733 | 4,403 | 9,202 | 3,076 | 4,327 | 3,001 41 | 43 | 5,615 5,603 | 3,959 | 4,182 | | 186 5,3 | 65 2,6 | 17 3 | 25 - | - | _ | - | 292,47 | | |
| 56 | 41 | SCADA and communications | SCADA and communications equipment operating as a single syst | 1.0* | | | 100 | | - 10 | - | | - | - | - | | | - | - | - | - | - | - | - | | - | - | - | | - | - | - | - | | - | 1 | 1 - | |
| 57 | All | Capacitor Banks | Capacitors including controls | No | | | 1 | | | 37 | | - | - | | - | _ | - | 1 | | 1 | 1 | - | 6 | 1 1 | | | 1 | 3 | 2 | 1 - | | - | | - | | 1 - | |
| 58 | 41 | Load Control | Centralised plant | 1.0* | | | 1 | | 6 | | L _ ^ | | - | | - | _ | - | - 1 | | 3 | 2 | 1 | 6 | 1 2 | 1 _ 1 | 2 | - | - 1 | 1 - | - 1 | | - | | - | | 6 | 3 3 |
| 50 | 41 | Load Control | Relays | No | 2 | | 20 | 612 | 227 | 220 | 62 | 24 | 20 | 19 | 72 | 20 | 74 | | 44 | | 95 | 72 | 21 | 100 70 | 72 | £ 0 | 79 | 116 1 | 45 | 57 | | 1 | | - | 790 3,44 | | |
| 60 | 41 | Civils | Cable Tunnels | km | | | | | | | | | | | /3 | | | - | | - | - | - | - | | | - | - | | ~ | - | - | 1 | | - | 3,44 | | N/A |
| | | C. WIG | Cable Formers | kin | | | - | | | | · · · · | | | | _ | | | | | | | _ | - | | | | | | _ | | | | | | _ | _ | - 1 000 |

Commerce Commission Information Disclosure Template

| | | | | | | | | | | | | | | | | | | | | | | | | _ | | | | | | | | | | |
|--|-----------|--|---|--|-----------|--------|----------|------------|----------|-------------------|-------|-----------|----------|-------|---------|----------------------------|-------|-------|---------|-----------|-------|-------------|-----------|---------|-----------|-------------|------------|------|-----------|-----------|-----------------|---------------|--------|---------------|
| | | | | | | | | | | | | | | | | | | | | | | | Company | | | | | | owerco Li | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | For Year | | | | | | 31 March | | | | | |
| | | | | | | | | | | | | | | | | | | | | | Ne | twork / Sub | b-network | Name | | | | N | Vestern R | egion | | | | |
| SCHEDULE 9b: ASSET AGE PROFILE This schedule may and final fallow of multilated of the same that up the network, by asset class, ph and sate class, ph and ph a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Disclosure Year (year ended) | 31 March 2021 | Number of assets at disclosure year end by installation date | | | | | | | | | | | | No. with items at No. with | | | | | | | | | | | | | | | | | | |
| | | | | | 19 | 40 1 | 950 19 | 60 1970 | 1980 | 0 1990 | | | | | | | | | | | | | | | | | | | | | No. with age | | | Data accuracy |
| | Voltage | Asset category | Asset class L | Units pro | e-1940 -1 | 949 -1 | 1959 -19 | 969 -1975 | -198 | 9 -1999 | 2000 | 2001 200 | 2 2003 | 2004 | 2005 20 | 06 2007 | | 2009 | 2010 20 | 11 2012 | 2013 | | | | 017 201 | 2019 20 | | 2022 | 2023 | 2024 2025 | unknown | year | dates | (1-4) |
| | All | Overhead Line | Concrete poles / steel structure | No. | | | | ,584 27,74 | | | | 2,981 1,6 | | | | 183 1,33 | | | | 430 1,575 | | | | 3,040 | 2,659 2,5 | 10 3,067 2, | 131 1,87 | | - | | 39 | 148,142 | - | 3 |
| | All | Overhead Line | Wood poles | No. | 27 | 35 | 519 4, | ,927 6,83 | | 53 5,951 47 64 | 397 | | 77 420 | 301 | 230 | 141 18 | 5 61 | 61 | 20 | 26 3 | 3 | 1 | 4 | - | - | 8 1 | 8 2 | - 16 | - | | 1 | 27,055 | - | 3 |
| | All HV | Overhead Line Subtransmission Line | Other pole types Subtransmission OH up to 66kV conductor | No. | - | - | 42 | 22 76 | ~ | | - 11 | 18 | 7 16 | 39 | 30 | 10 | 3 5 | 3 | 2 | 10 1 | 1 | 1 | 2 | 1 | - | 4 11 | 19 5 | - | - | | 94 | 1,277 | | 2 |
| | HV | Subtransmission Line | Subtransmission OH up to beky conductor Subtransmission OH 110kV+ conductor | km | - | 2 | 43 | 230 21 | 9 13 | 91 144 | 2 | 1 | 2 5 | 1 | 12 | - | - | 12 | 1 | 0 4 | . 0 | b | 0 | 11 | 23 | 15 12 | / | 4 - | - | | - | 952 | U | 3 N/4 |
| | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | - | - | - | - | e | 5 2 | | | 6 0 | | | - | | | - | 4 0 | | _ | | | | 5 12 | 22 | | - | | | 96 | | N/A 4 |
| | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | - | - | - | 13 - | - | | 0 | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | 13 | - | 4 |
| | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | - | - | - | | - | - | - | | | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | - | - | - | 1 - | | 0 0 | - | | - | - | - | | - | - | - | | - | - | - | - | - | - | | - | - | | - | 1 | - | 4 |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | - | - | | - | - | | - | - | - | N/A |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (OII pressurised) | km | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | - | - | - | | - | - | | | - | - | - | | - | - | - | | - | - | - | - | | | | - | - | | - | - | - | N/A |
| | HV | Subtransmission Cable | Subtransmission submarine cable | km | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | - | - | | - | - | | - | - | - | N/A |
| | HV | Zone substation Buildings | Zone substations up to 66kV | No. | - | - | 1 | 3 4 | 6 | 9 10 | - | | - | 2 | 1 | - | 5 - | - | 1 | 2 = | 1 | 1 | 1 | 1 | | - | 1 - | - | - | | - | 85 | 42 | 2 |
| | HV | Zone substation Buildings | Zone substations 110kV+ | No. | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A N/A |
| | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A N/A |
| | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | - | - | - | | - | - | - | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| | HV HV | Zone substation switchgear Zone substation switchgear | 33kV Switch (Ground Mounted) 33kV Switch (Pole Mounted) | NO. | - | - | - | | | | - | | | - | - | | 1 - | - | | 4 3 | - | 2 | 3 | b 70 | | | | | - | | | 19 | - | 2 |
| | HV | Zone substation switchgear | 33kV RMU | NO. | - | - | - | | - | | - | | | - | - | - | | - 1 | - | | - | - | - | - | | - 10 | | - | - | | - | 1 | - | 2 |
| | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | - | - | - | | - | 23 | - | | - | - | - | 5 | 5 - | - | 14 | 11 - | 4 | 1 | - | 3 | 1 - | - | | - | - | | - | 68 | - | 2 |
| | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | - | - | - | 12 1 | 5 3 | 28 9 | 2 | | 1 | 1 | 2 | - | 2 2 | 3 | - | 2 - | 2 | 1 | 5 | 3 | 3 | 3 7 | | - | - | | 3 | 105 | - | 2 |
| | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | - | - | - | 44 8 | 0 9 | 58 83 | - | 20 | 1 1 | 17 | 5 | 1 3 | 0 1 | 1 | - | 19 - | 21 | 10 | 11 | 22 | 36 | 8 1 | 1 - | - | - | | - | 471 | - | 2 |
| 34 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | - | - | - | - | | 1 6 | - | - | | 1 | 1 | - | 1 - | 3 | 3 | - 2 | - | 4 | 7 | - | 9 - | 1 | - | 2 - | - | - | - | 41 | 1 | 3 |
| 35 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | - | - | 1 | 21 2 | 5 | 11 15 | 1 | 4 | 2 4 | 2 | 2 | - | 5 2 | - | | 3 2 | 3 | 4 | 4 | 9 | 1 | 3 2 | - | 1 - | - | | 2 | 129 | | 2 |
| 36 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 80 | 104 : | 1,201 2, | ,088 2,05 | 4 2,49 | 90 1,004 | 43 | 52 | 87 63 | 49 | 42 | 38 3 | 9 26 | 36 | 18 | 30 43 | 57 | 64 | 62 | 52 | 57 | 67 | 46 2 | - 15 | - | | - | 10,058 | 22 | 3 |
| | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | - | - | - | | - | - | - | | | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| 38 | HV | Distribution Line | SWER conductor | km | - | - | - | - | 5 | 9 0 | | | | - | - | | - | - | - | | - | 3 | - | - | - | - | | - | - | | - | 17 | - | 3 |
| | HV | Distribution Cable | Distribution UG XLPE or PVC | km | - | 0 | 4 | 28 12 | 2 1 | 24 80 | 12 | 9 | 11 6 | 8 | 10 | 15 | 5 22 | 18 | 19 | 12 12 | 15 | 19 | 17 | 20 | 15 | 10 31 | 24 | 6 - | - | | - | 685 | 45 | 3 |
| | HV | Distribution Cable | Distribution UG PILC | km | - | - | 0 | 21 4 | 4 : | 18 6 | 0 | 0 | 2 3 | 0 | 0 | 1 | 1 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | - | 0 | 0 0 | | - | - | | - | 95 | 5 | 3 |
| | HV | Distribution Cable | Distribution Submarine Cable | km | - | - | - | | - | - | - | | | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | - | - | - | N/A |
| | HV HV | Distribution switchgear Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers 3.3/6.6/11/22kV CB (Indoor) | No. | - | - | - | 1 | 8 | 32 24 | 4 | 4 | 9 7 | 8 | 12 | 12 | 5 11 | 17 | 13 | 7 17 | 14 | 16 c | 20 | 40 | 35 | 7 37 | 12 1 | 2 - | - | | 28 | 453 | - | 2 |
| | HV | Distribution switchgear Distribution switchgear | | NO. | - 12 | - 16 | 5 | 42 9 | - | 39 32 | 4 | - 690 | 1 2 | 4 | 470 | 492 4 | 7 | 6 | 8 | 270 447 | 1 | 5 | - 772 | 1 | 7 - | | 612 AG | 7 - | - | | - | 279 | | 2 |
| | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | | 10 | - 1, | 459 4,61 | 40 37,41 | 68 Z/446 | 263 | 19 6 | 12 27 | 4/5 | 21 | 482 43 | 433 | 418 | 300 | 19 21 | 443 | 545 | 7 | 19 | 16 | ~ ~ | 17 46 | | - | | 49 | 24,514 829 | - | 2 |
| | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU 3.3/6.6/11/22kV RMU | NO. | - | - 1 | - | 45 13 | • • | 59 101 | 12 | 18 | 28 22 | 30 | 20 | 33 4 | / 22 | 30 | 38 | 22 21 | 37 | 14 | 55 | 10 | ±0 62 | 5 42 | 17 4 | - | | | 17 | 1 222 | | 2 |
| | HV | Distribution Transformer | Pole Mounted Transformer | NO. | - | - | 68 | 516 1.72 | 3 29 | 63 3 3 74 | 355 | 34 | 20 22 | 471 | 418 | 377 4 | JU | 413 | 317 | 345 395 | 405 | 456 | 463 | 423 | 551 4 | 9 643 | 451 43 | | - | | 910 | | - | 4 |
| | HV | Distribution Transformer | Ground Mounted Transformer | No. | - | - | 2 | 66 30 | 9 50 | 5,724 | 85 | 87 | 99 97 | 92 | 92 | 104 10 | 403 | 744 | 76 | 81 101 | 98 | 142 | 139 | 119 | 123 1 | ~ ~ | 93 8 | 15 - | - | | 140 | 20,722 | - | 4 |
| | HV | Distribution Transformer | Voltage regulators | No. | - | - | - | - | 2 | 1 4 | - | 1 | 1 2 | 3 | 2 | 5 | 1 4 | 4 | 1 | 2 5 | 1 | 5 | 8 | 4 | 1 | 2 9 | 1 - | - | - | | 7 | 76 | - | 4 |
| | HV | Distribution Substations | Ground Mounted Substation Housing | No. | 2 | - | 1 | 52 37 | 3 4 | 15 314 | 52 | 37 | 44 73 | 54 | 22 | 14 | 7 18 | 6 | 11 | 4 7 | 7 | 12 | 14 | 6 | 8 | 9 11 | 21 - | - | - | | - | 1,604 | 2 | 3 |
| 51 | LV | LV Line | LV OH Conductor | km | 1 | 48 | 240 | 899 89 | 8 6 | 48 290 | 42 | 31 | 24 25 | 21 | 19 | 18 | 9 18 | 17 | 12 | 14 11 | 19 | 19 | 15 | 22 | 19 | 13 22 | 11 | 3 - | - | | - | 3,448 | 40 | 2 |
| 52 | LV | LV Cable | LV UG Cable | km | 0 | 0 | 8 | 86 63 | 5 49 | 96 333 | 31 | 27 | 31 31 | 37 | 49 | 50 6 | 3 66 | 64 | 33 | 27 18 | 20 | 25 | 25 | 31 | 34 | 42 | 27 | 7 - | - | | - | 2,334 | 238 | 2 |
| 53 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | - | 12 | | 233 41 | | | | 14 | 12 12 | 15 | 24 | | 0 19 | 23 | 8 | 8 4 | 6 | 5 | 7 | 7 | 6 | 7 9 | 2 - | - | - | | - | 1,370 | 68 | 2 |
| | LV | Connections | OH/UG consumer service connections | No. | 21 | 167 : | 1,466 7, | ,889 54,78 | 40,0 | 25 17,189 | 2,170 | 1,959 1,9 | 63 2,167 | 2,344 | 2,802 | ,640 2,76 | 2,730 | 2,398 | 2,200 2 | 442 1,714 | 2,259 | 2,326 | 2,294 | 2,417 | 2,576 2,5 | 9 2,795 1 | 198 7 | - 4 | - | | - | 156,326 | 35,601 | 2 |
| | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | - | - | - | 58 14 | 8 1 | 85 81 | 58 | 6 | 6 2 | 19 | 19 | 27 | 2 20 | 28 | 12 | 30 16 | 24 | 81 | 144 | 87 | 110 | 8 44 | 6 | 6 - | - | | 57 | 1,264 | - | 3 |
| | All | SCADA and communications | SCADA and communications equipment operating as a single syst | Lot | - | - | - | | - | - | | | - | - | - | | - | - | - | | - | - | - | - | | | | - | - | | 1 | 1 | - | 2 |
| | All | Capacitor Banks | Capacitors including controls | No | - | - | - | | - | - | 1 | | - | - | - | | - | - | - | - 3 | - | - | - | - | - | 1 - | | - | - | | - | 5 | - | 4 |
| | All | Load Control | Centralised plant | Lot | - | - | - | - | 4 | 5 8 | - | 1 - | - | - | - | | - | - | - | - 5 | - | 1 | - | 1 | | 1 | | - | - | | - | 26 | 3 | 3 |
| | All | Load Control | Relays | No | 1 | - | - | 9 28 | 6 1 | 31 88 | 14 | 15 | 22 17 | 36 | S | 17 : | 5 14 | 7 | 10 | 16 2 | 9 | 19 | 32 | 22 | 20 | 13 49 | 19 | 4 - | - | | 696 | 1,619 | - | 2 |
| 60 | All | Civils | Cable Tunnels | km | - | - | - | | | | | | - | - | - | | - | - | - | | - | - | - | - | | - | | - | - | | | - | - | N/A |

Commerce Commission Information Disclosure Template

| | | | | | | | | | | | | | | | | | | | | | | | | | Company | Name | | | | | Pc | owerco Li | mited | | | | _ |
|----|---------|------------------------------|--|-------------|--------------------|--------------------|---------------|--------------|--------------|--------------|-------------|-----------------|--------------|--------------|--------------|---------|-------|-------|-------|-------|-------|---------|-------|-------------|----------|-------|-----------|---------|---------|------|------|-----------|----------|----------|----------|----------|-----------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | For Year | | | | | | | 1 March | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Network / S | | | | | | | | astern Re | egion | | | | |
| | CHEDIN | LE 9b: ASSET AGE PROF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | -0 | | | | |
| | | | ILE (based on year of installation) of the assets that make up the network, | by asset ca | category and asset | class. All units i | relating to c | able and lin | e assets, th | at are expre | rssed in km | , refer to ciri | cuit lengths | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Disclosure Year (year ended) | 31 March 2021 | | | | | | | | Numbe | er of assets a | at disclosur | e year end b | y installati | on date | | | | | | | | | | | | | | | | | | No. with | Items at | No. with | |
| | | | | | 194 | 10 1950 | 1960 | 1970 | 1980 | 1990 | | | | | | | | | | | | | | | | | | | | | | | | age | | | t Data accuracy |
| 9 | Voltage | Asset category | Asset class | Units | pre-1940 -194 | | -1969 | -1979 | -1989 | -1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2005 | 2007 | 2008 | 2009 | | 2011 20 | | 2013 2014 | | | 2017 201 | | 2020 | 2021 | 2022 | 2023 | 2024 202 | 5 unknow | | dates | (1-4) |
| 10 | All | Overhead Line | Concrete poles / steel structure | No. | 1 | 4 1,109 | | | 15,713 | | 65 | 163 | 454 | 503 | 527 | 481 | 670 | 836 | 1,041 | | | | 850 | 1,073 918 | 1,001 | 1,227 | 1,292 1,0 | 18 1,25 | | | | - | | | 9 81,858 | | 3 |
| 11 | All | Overhead Line | Wood poles | No. | - | 1 206 | 287 | | 802 | 1,659 | 15 | 25 | 3 | 1 | 2 | 9 | - | 5 | 34 | 10 | 70 | 8 | - | - 1 | - | - | 1 | 3 - | S | - | - | - | | - | 6 3,943 | | 3 |
| 12 | All | Overhead Line | Other pole types | No. | | - 1 | 15 | 1,970 | 12 | 30 | 10 | 57 | 30 | 25 | 8 | 62 | 60 | 31 | 26 | 20 | 5 | - | 1 | 7 2 | - | - | | | 2 4 | 28 | - 3 | - | - | - 2 | 2,426 | | 2 |
| 13 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | | - 37 | 92 | 126 | 110 | 82 | 7 | - | 1 | 1 | 1 | 3 | 2 | 6 | 4 | 0 | 0 | 34 | 15 | 1 10 | 0 | 0 | 6 | 1 | 3 0 |) 1 | - 1 | - | - | - | 543 | 2 (| <u>)</u> 3 |
| 14 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | - | - | - | - | N/A |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | | | - | 18 | 1 | 18 | 5 | 1 | - | 0 | 0 | 1 | 2 | 5 | 2 | 2 | 6 | 15 | 6 | 4 0 | 12 | 1 | 21 | 24 | 6 4 | - | - | - | - | - | 154 | 4 3 | 4 4 |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | | - | - | N/A |
| 17 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | | - | - | N/A |
| 18 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | | - | - | N/A |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | | | - | - | N/A N/A |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Dil pressurised) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | - | | - | - | |
| 21 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | | | - | - | N/A |
| 22 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | | | - | - | N/A |
| 23 | HV | Subtransmission Cable | Subtransmission submarine cable | km | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | - | - | - | - | N/A |
| 24 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | | - 1 | 2 | 16 | 4 | 3 | - | - | - | - | - | 28 | 2 | 1 | 1 | 1 | - | 1 | 2 | 2 2 | - | 2 | | - | 2 | 1 | | - | - | | 7 | 1 11 | - 2 |
| 25 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | - | - | - | - | N/A |
| 26 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | - | - | - | - | N/A |
| 27 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | | | - | 2 | 4 | 1 | - | - | - | - | - | - | 1 | 7 | - | - | - | - | - | | 3 | - | | - | - | 1 | - 1 | - | - | | 19 | ə – | 2 |
| 28 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | | | - | - | 2 | - | - | - | - | - | - | 1 | - | - | 2 | 1 | - | - | - | 5 - | - | - | | - | - | - | - | - | - | | 11 | 1 - | 2 |
| 29 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | | | 44 | 58 | 43 | 24 | - | - | - | - | - | 4 | 2 | 9 | 11 | 11 | 12 | 5 | 8 | 8 3 | 10 | 19 | 10 | 5 | 2 1 | 4 1 | 4 - | - | | - | 1 291 | 1 - | 2 |
| 30 | HV | Zone substation switchgear | 33kV RMU | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | | - | - | N/A |
| 31 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | 10 | 6 | 5 7 | - | 20 | 8 | 1 - | - | - | - | - | - | - 1 | 0 73 | - | 2 |
| 32 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | | | 3 | 5 | 7 | 13 | 5 | 1 | - | - | - | 3 | - | 2 | 2 | 5 | 1 | - | 3 | 2 5 | 3 | 7 | 6 | 3 - | 1 | - | - | - | - | | 73 | - | 2 |
| 33 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | | | 41 | 51 | 50 | 34 | 4 | - | - | 2 | 2 | 7 | 17 | 7 | 17 | 19 | 9 | 14 | 16 | 11 12 | 30 | 24 | | 1 | 2 - | | - | - | | | 379 | - 16 | 2 |
| 34 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | | - | - | - | | | - | - | N/A |
| 35 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | | | 3 | 5 | 10 | 7 | 1 | 1 | 1 | - | - | - | 5 | 4 | 4 | 2 | 5 | 2 | 4 | 8 8 | 9 | 2 | | | 2 - | 4 | - 1 | - | | | 87 | 7 - | 2 |
| 36 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | | - 84 | 772 | 1,392 | 990 | 422 | 5 | 19 | 16 | 17 | 29 | 26 | 43 | 43 | 39 | 48 | 64 | 37 | 54 | 74 54 | 53 | 65 | 69 | 58 5 | 5 62 | : 39 | - (| - | | | 4,629 | 9 7 | 1 3 |
| 37 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | | - | - | | | - | - | N/A |
| 38 | HV | Distribution Line | SWER conductor | km | | - 0 | 14 | 25 | 2 | 7 | - | - | - | 5 | - | - | - | 0 | 1 | 0 | 0 | - | - | - 7 | - | 0 | 0 - | _ | - 10 | | - | - | | | 61 | 1 - | 3 |
| 39 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | | - 1 | 4 | 107 | 272 | 210 | 36 | 33 | 17 | 23 | 33 | 38 | 42 | 40 | 38 | 36 | 29 | 29 | 26 | 25 22 | 28 | 29 | 35 | 34 5 | 3 39 | 18 | - 3 | - | | | 1,296 | | 1 3 |
| 40 | HV | Distribution Cable | Distribution UG PILC | km | | - 0 | 3 | 26 | 51 | 13 | 2 | 2 | 0 | - | 0 | - | - | 0 | - | 0 | - | - | - | | - | - | | - | | - | - | - | | | 99 | 8 - | 3 |
| 41 | HV | Distribution Cable | Distribution Submarine Cable | km | | | - | - | 2 | 7 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | | - | 0 | 0 - | - | - | - | - | - | | | 11 | 1 - | 3 |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | | - 1 | - | 7 | - | 5 | 1 | 2 | 2 | - | 10 | 1 | 5 | 5 | 1 | 9 | 10 | 15 | 11 | 19 20 | 33 | 55 | 41 | 31 1 | 7 17 | 14 | - 1 | - | | - | 4 336 | | 2 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | | - 1 | 17 | 53 | 24 | 32 | - | 1 | - | - | - | - | 1 | - | - | 1 | - | 2 | - | 3 - | 4 | 3 | | - | - | - | - | - | - | | 142 | | 2 |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | | - 31 | 695 | 1,504 | 2,243 | 2,297 | 132 | 189 | 197 | 186 | 262 | 350 | 324 | 357 | 329 | 355 | 382 | 311 | 334 | 395 484 | 499 | 650 | 785 6 | 86 64 | 7 417 | 333 | - 8 | - | - | - 2 | 2 15,396 | | 2 |
| 45 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | | - 4 | 15 | 140 | 139 | 161 | 8 | 12 | 11 | 11 | 31 | 21 | 58 | 35 | 35 | 27 | 17 | 26 | 17 | 17 1 | 6 | 3 | 6 | 11 1 | 2 42 | 2 38 | 3 - | - | | - | 3 907 | - | 2 |
| 46 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | | | 9 | 110 | 79 | 135 | 21 | 16 | 12 | 18 | 43 | 58 | 69 | 78 | 64 | 76 | 41 | 49 | 54 | 50 47 | 76 | 93 | 100 | 16 11 | 4 15 | - 1 | - | - | | | 1,548 | | 3 |
| 47 | HV | Distribution Transformer | Pole Mounted Transformer | No. | | - 1 | 223 | 633 | 1,102 | 2,060 | 154 | 177 | 154 | 178 | 227 | 228 | 235 | 246 | 281 | 248 | 292 | 195 | 162 | 234 236 | 234 | 273 | 207 | 70 28 | 9 126 | 407 | - (| - | | - 2 | 8,879 | | 4 |
| 48 | HV | Distribution Transformer | Ground Mounted Transformer | No. | | - 7 | 108 | 366 | 768 | 964 | 118 | 129 | 69 | 98 | 160 | 159 | 194 | 220 | 172 | 152 | 131 | 121 | 123 | 90 106 | 144 | 159 | 187 1 | 88 17 | 8 60 | 1 31 | L - | - | | - | 5,229 | | 4 |
| 49 | HV | Distribution Transformer | Voltage regulators | No. | | | - | - | 1 | - | 1 | - | - | - | - | 1 | - | 2 | 5 | - | 2 | 2 | 1 | 3 3 | 1 | 6 | 4 | 2 1 | 6 4 | | - 8 | - | - | | 57 | | 4 |
| 50 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | | - 2 | 82 | | 883 | | 39 | 41 | 16 | 37 | 56 | 19 | 16 | 15 | 25 | 20 | 13 | 7 | 7 | 6 9 | 4 | 10 | 4 | 13 | 8 16 | - i | - | - | | | 2,439 | | 3 |
| 51 | LV | LV Line | LV OH Conductor | km | | - 55 | 450 | | 406 | | 2 | 4 | 4 | 5 | 4 | 3 | 4 | 6 | 8 | 5 | 4 | 3 | 2 | 3 3 | 3 | 1 | 5 | 3 | 4 6 | 5 2 | - 1 | - | | | 1,905 | | i 2 |
| 52 | LV | LV Cable | LV UG Cable | km | | - 0 | 59 | 442 | 402 | 379 | 30 | 33 | 18 | 25 | 61 | 61 | 64 | 69 | 61 | 49 | 26 | 17 | 23 | 17 22 | 24 | 38 | 57 | 52 6 | 0 23 | 5 | - i | - | | | 2,118 | | 1 2 |
| 53 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | | - 13 | 116 | 445 | 305 | 286 | 27 | 27 | 14 | 14 | 53 | 46 | 46 | 39 | 32 | 32 | 21 | 15 | 14 | 8 8 | 11 | 21 | | 25 2 | 3 7 | 7 0 | - 0 | - | | | 1,673 | | |
| 54 | LV | Connections | OH/UG consumer service connections | No. | | - 578 | | | 20,187 | 15,076 | 995 | 1,003 | 494 | 862 | 1,363 | 1,206 | 1,113 | 1,649 | 1,472 | 1,280 | 2,127 | 1,465 1 | 1,272 | 1,357 1,277 | 1,665 | 1,765 | 2,303 2,6 | | 1 1,487 | 301 | - L | - | | | 136,146 | | 3 2 |
| 55 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | | | 48 | 184 | 133 | 60 | 8 | - | 3 | 4 | - | 19 | 23 | 23 | 35 | 37 | 3 | 22 | 27 | 37 63 | 92 | 135 | 68 | 41 2 | 1 11 | 19 | - 6 | - | | - 7 | 7 1,193 | 3 - | 3 |
| 56 | All | SCADA and communications | SCADA and communications equipment operating as a single syst | Lot | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | - | 1 1 | 1 - | 2 |
| 57 | All | Capacitor Banks | Capacitors including controls | No | | | - | - | 1 | 27 | 1 | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 3 | 1 1 | 3 | - | 1 | 2 | 2 1 | - | - | - | | | 46 | 5 - | 4 |
| 58 | All | Load Control | Centralised plant | Lot | | | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | 1 | 1 | 1 1 | - | 1 | | - | - | - | - | - | | | 10 | - c | 3 |
| 59 | All | Load Control | Relays | No | 1 - | - 9 | 11 | 327 | 96 | 141 | 49 | 19 | 8 | 11 | 37 | 33 | 57 | 60 | 30 | 62 | 75 | 56 | 29 | 190 60 | 40 | 46 | 58 | 83 9 | 6 38 | 5 | - I | - 1 | | - 9 | 4 1,821 | 1 - | 2 |
| 60 | All | Civils | Cable Tunnels | km | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | | - | - | - | - | - | | | - | | N/A |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | / |

Commerce Commission Information Disclosure Template

| | Company Name | F | owerco Limited | |
|----------|--|------------------------|--------------------------------|------------------------|
| | For Year Ended | | 31 March 2021 | |
| | Network / Sub-network Name | F | Powerco Limited | |
| | SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES | | | · |
| Т | This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela sircuit lengths. | ting to cable and line | e assets, that are exp | ressed in km, refer to |
| sch | ref | | | |
| 9 | | | | Total circuit length |
| 10 | Circuit length by operating voltage (at year end) | Overhead (km) | Underground (km) | (km) |
| 11 | > 66kV | - | - | _ |
| 12 | 50kV & 66kV | 163 | 6 | 169 |
| 13 | 33kV | 1,331 | 248 | 1,579 |
| 14 | SWER (all SWER voltages) | 79 | - | 79 |
| 15 | 22kV (other than SWER) | 121 | 1 | 122 |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 14,576 | 2,184 | 16,760 |
| 17 | Low voltage (< 1kV) | 5,353 | 4,452 | 9,805 |
| 18 | Total circuit length (for supply) | 21,623 | 6,891 | 28,514 |
| 19 | | | | |
| 20 | Dedicated street lighting circuit length (km) | 1,070 | 1,973 | 3,043 |
| 21 22 | | | l | - |
| | | | (% of total | |
| 23 | | Circuit length (km) | | |
| 24 | | 2,454 | 11% | |
| 25 | | 7,749 | 36% | |
| 26 | | - | - | |
| 27 | 7 Rugged only | 11,104 | 51% | |
| 28 | | 315 | 1% | |
| 29 | | - | - | |
| 30 | | 21,623 | 100% | |
| 31 | | | 10/ C | |
| 32 | | Circuit length (km) | (% of total circuit length) | |
| 33 | | 11,505 | 40% | |
| 53 | congen of circuit within tokin of coastine of geothermal areas (where known) | 11,505 | | |
| | | Charles and the second | (% of total | |
| 34 | | Circuit length (km) | | |
| 35 | Overhead circuit requiring vegetation management | 21,623 | 100% | |
| | | | | |

| | Company Name | F | Powerco Limited | |
|----------|--|-------------------------|------------------------------|-----------------------|
| | For Year Ended | | 31 March 2021 | |
| | Network / Sub-network Name | | Western Region | |
| SCH | EDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES | | | |
| This se | chedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela t lengths. | iting to cable and line | e assets, that are expr | essed in km, refer to |
| 9 | | | | Total circuit length |
| 10 | Circuit length by operating voltage (at year end) | Overhead (km) | Underground (km) | (km) |
| 11 | > 66kV | | - | - |
| 12 | 50kV & 66kV | | - | - |
| 13 | 33kV | 952 | 100 | 1,052 |
| 14 | SWER (all SWER voltages) | 17 | - | 17 |
| 15 | 22kV (other than SWER) | 121 | 1 | 122 |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 9,947 | 779 | 10,726 |
| 17 | Low voltage (< 1kV) | 3,448 | 2,334 | 5,782 |
| 18 19 | Total circuit length (for supply) | 14,485 | 3,213 | 17,699 |
| 20 | Dedicated street lighting circuit length (km) | 748 | 622 | 1,370 |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | ULL | |
| 22 23 | Overhead circuit length by terrain (at year end) | Circuit length (km) | (% of total overhead length) | |
| 24 | Urban | 1,584 | 11% | |
| 25 | Rural | 4,369 | 30% | |
| 26 | Remote only | - | - | |
| 27 | Rugged only | 8,217 | 57% | |
| 28 | Remote and rugged | 315 | 2% | |
| 29 | Unallocated overhead lines | - | - | |
| 30 | Total overhead length | 14,485 | 100% | |
| 31 | | | | |
| | | | (% of total circuit | |
| 32 | | Circuit length (km) | | |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 5,425 | 31% | |
| | | | (% of total | |
| 34 | | | overhead length) | |
| 35 | Overhead circuit requiring vegetation management | 14,485 | 100% | |

| | Company Name | D | owerco Limited | |
|-------------|---|------------------------------|---------------------------------------|--------------------------|
| | | | | |
| | For Year Ended | | 31 March 2021 | |
| | Network / Sub-network Name | | Eastern Region | |
| This s | IEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES chedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela t lengths. | ting to cable and line | assets, that are expres | sed in km, refe |
| 9 0 | Circuit length by operating voltage (at year end) | Overhead (km) | Tc Underground (km) | tal circuit leng (km) |
| 1 | > 66kV | - | - | - |
| 2 | 50kV & 66kV | 163 | 6 | 16 |
| 3 | 33kV | 379 | 149 | 52 |
| 4 | SWER (all SWER voltages) | 61 | - | (|
| 5 | 22kV (other than SWER) | - | - | - |
| 6 | 6.6kV to 11kV (inclusive—other than SWER) | 4,629 | 1,405 | 6,03 |
| 7 | Low voltage (< 1kV) | 1,905 | 2,118 | 4,0 |
| 8 9 | Total circuit length (for supply) | 7,138 | 3,678 | 10,8 |
| 0 | Dedicated street lighting circuit length (km) | 323 | 1,351 | 1,67 |
| 1 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | 010 | 1,001 | |
| 3 | Overhead circuit length by terrain (at year end) | Circuit length (km) | (% of total | |
| 4 | Urban | 870 | 12% | |
| 5 | Rural | 3,380 | 47% | |
| 6 | Remote only | - | - | |
| 7 | Rugged only | 2,887 | 40% | |
| 8 | Remote and rugged | | - | |
| 9 | Unallocated overhead lines | - | - | |
| 0 | Total overhead length | 7,138 | 100% | |
| ! ? } | Length of circuit within 10km of coastline or geothermal areas (where known) | Circuit length (km) 6,081 | (% of total circuit length) 56% | |
| | | Circuit length (km) | (% of total overhead length) | |
| 4 | | | | |

| | Company Name | Powerc | o Limited |
|--------------------|---|------------------------|--------------------------------|
| | For Year Ended | 1 31 Ma | rch 2021 |
| | | | |
| | | | |
| | 9d: REPORT ON EMBEDDED NETWORKS | | |
| This schedule requ | uires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in anoth | er embedded network. | |
| ch ref | | | |
| | | Number of ICPs | 1 i.e |
| 8 | Location * | served | Line charge revenue (\$000) |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 * Extens | d embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedde | d in another EDB's not | ork or in another |
| | led network | | |

| | Company Name | Powerco Limited |
|----------|---|---------------------------|
| | For Year Ended | 31 March 2021 |
| | Network / Sub-network Name | Powerco Limited |
| SC | HEDULE 9e: REPORT ON NETWORK DEMAND | |
| This | schedule requires a summary of the key measures of network utilisation for the disclosure year (number of ne ibuted generation, peak demand and electricity volumes conveyed). | ew connections including |
| | | |
| 8 9 | 9e(i): Consumer Connections Number of ICPs connected in year by consumer type | |
| - | | Number of |
| 10 | Consumer types defined by EDB* | connections (ICPs) |
| 11 | Residential/Small Commercial | 4,893 |
| 12 | Commercial | 51 |
| 13 | Large Commercial/Industrial | 14 |
| 14 | | |
| 15 | | |
| 16 | * include additional rows if needed | 1055 |
| 17 18 | Connections total | 4,958 |
| 18 19 | Distributed generation | |
| 20 | Number of connections made in year | 820 connections |
| 21 | Capacity of distributed generation installed in year | 6,720.57 MVA |
| | | |
| 22 | 9e(ii): System Demand | |
| 23 | | |
| 24 | | Demand at time |
| | | of maximum |
| | | coincident demand (MW) |
| 25 | Maximum coincident system demand | |
| 26 | GXP demand | 800 |
| 27 | plus Distributed generation output at HV and above | 144 |
| 28 | Maximum coincident system demand | 944 |
| 29 30 | less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points | 944 |
| 50 | Demand on system for supply to consumers connection points | 344 |
| 31 | Electricity volumes carried | Energy (GWh) |
| 32 | Electricity supplied from GXPs | 4,557 |
| 33 | less Electricity exports to GXPs | 145 |
| 34 | plus Electricity supplied from distributed generation | 742 |
| 35 | less Net electricity supplied to (from) other EDBs | - |
| 36 | Electricity entering system for supply to consumers' connection points | 5,154 |
| 37 | less Total energy delivered to ICPs | 4,880 |
| 38 39 | Electricity losses (loss ratio) | 274 5.3% |
| 39 40 | Load factor | 0.62 |
| | | |
| 41 | 9e(iii): Transformer Capacity | |
| 42 | | (MVA) |
| 43 | Distribution transformer capacity (EDB owned) | 3,322 |
| 44 45 | Distribution transformer capacity (Non-EDB owned, estimated) | 143 |
| 45 46 | Total distribution transformer capacity | 3,465 |
| 40 | Zone substation transformer capacity | 2,240 |
| | | ~~~~ |

| | Company Name | Powerco Limited |
|----------|---|---------------------------------|
| | For Year Ended | 31 March 2021 |
| | Network / Sub-network Name | Western Region |
| SC | HEDULE 9e: REPORT ON NETWORK DEMAND | |
| | s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of ne ributed generation, peak demand and electricity volumes conveyed). f | ew connections including |
| 8 | 9e(i): Consumer Connections | |
| 9 | Number of ICPs connected in year by consumer type | |
| | | Number of |
| 10 | Consumer types defined by EDB* | connections (ICPs) |
| 11 | Residential/Small Commercial | 2,177 |
| 12 13 | Commercial Large Commercial/Industrial | 10 |
| 13 | | |
| 15 | | |
| 16 | * include additional rows if needed | |
| 17 | Connections total | 2,189 |
| 18 | | |
| 19 20 | Distributed generation | 202 econoctions |
| 20 21 | Number of connections made in year | 387 connections 4,042.50 MVA |
| 21 | Capacity of distributed generation installed in year | 4,042.50 |
| 22 | 9e(ii): System Demand | |
| 23 | | |
| 24 | | Demand at time |
| | | of maximum |
| | | coincident |
| 25 | Maximum coincident system demand | demand (MW) |
| 26 | GXP demand | 365 |
| 27 | plus Distributed generation output at HV and above | 71 |
| 28 29 | Maximum coincident system demand | 436 |
| 29 30 | less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points | 436 |
| 50 | | 450 |
| 31 | Electricity volumes carried | Energy (GWh) |
| 32 | Electricity supplied from GXPs | 2,039 |
| 33 | less Electricity exports to GXPs | 3 |
| 34 | plus Electricity supplied from distributed generation | 346 |
| 35 | less Net electricity supplied to (from) other EDBs | - |
| 36 37 | Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs | 2,382 2,216 |
| 37 38 | Electricity losses (loss ratio) | 166 7.0% |
| 39 | | |
| 40 | Load factor | 0.62 |
| | | |
| 41 | 9e(iii): Transformer Capacity | (20)(2) |
| 42 | | (MVA) |
| 43 44 | Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated) | 1,668 99 |
| 44 | Total distribution transformer capacity | 1,767 |
| 46 | | |
| 47 | Zone substation transformer capacity | 1,090 |
| | | |

| | Company Name | Powerco Limited |
|--|---|--|
| | For Year Ended | 31 March 2021 |
| | Network / Sub-network Name | Eastern Region |
| S | | |
| Thi | is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of ne tributed generation, peak demand and electricity volumes conveyed). | ew connections including |
| 0 | 9e(i): Consumer Connections | |
| 8 9 | Number of ICPs connected in year by consumer type | |
| | | Number of |
| 10 | Consumer types defined by EDB* | connections (ICPs) |
| 11 | Residential/Small Commercial | 2,716 |
| 12 | Commercial | 41 |
| 13 | Large Commercial/Industrial | 12 |
| 14 | | |
| 15 | | |
| 16 | * include additional rows if needed | 2.700 |
| 17 18 | Connections total | 2,769 |
| 19 | Distributed generation | |
| 20 | Number of connections made in year | 433 connections |
| 21 | Capacity of distributed generation installed in year | 2,678.07 MVA |
| | | |
| 22 | 9e(ii): System Demand | |
| 23 | | |
| 24 | | Demond at the s |
| | | Demand at time |
| | | of maximum |
| | | of maximum coincident |
| 25 | Maximum coincident system demand | of maximum |
| 26 | GXP demand | of maximum coincident demand (MW) |
| 26 27 | GXP demand plus Distributed generation output at HV and above | of maximum coincident demand (MW) 411 78 |
| 26 27 28 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand | of maximum coincident demand (MW) |
| 26 27 28 29 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above | of maximum coincident demand (MW) 411 78 489 - |
| 26 27 28 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand | of maximum coincident demand (MW) 411 78 |
| 26 27 28 29 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above | of maximum coincident demand (MW) 411 78 489 - |
| 26 27 28 29 30 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points | of maximum coincident demand (MW) 411 78 489 - 489 489 |
| 26 27 28 29 30 31 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) |
| 26 27 28 29 30 31 32 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 |
| 26 27 28 29 30 31 32 33 34 35 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs | of maximum coincident demand (MW) 411 78 489 - 489 - 489 Energy (GWh) 2,518 142 396 - |
| 26 27 28 29 30 31 32 33 34 35 36 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points | of maximum coincident demand (MW) 411 78 489 - - 489 Energy (GWh) 2,518 142 396 - 2,772 |
| 26 27 28 30 31 32 33 34 35 36 37 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points | of maximum coincident demand (MW) 411 78 489 - - 489 Energy (GWh) 2,518 142 396 - 2,772 |
| 26 27 28 30 31 32 33 34 35 36 37 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity lesses (loss ratio) Load factor Distribution transformer capacity (EDB owned) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity lesses (loss ratio) Load factor Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 442 396 - 2,772 4,880 (2,108) (76.0%) 0.65 (MVA) 1,654 44 |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity lesses (loss ratio) Load factor Distribution transformer capacity (EDB owned) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) 0.65 (MVA) 1,654 |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity lesses (loss ratio) Load factor Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated) Total distribution transformer capacity (Non-EDB owned, estimated) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) 0.65 (MVA) 1,654 44 1,699 |
| 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 | GXP demand plus Distributed generation output at HV and above Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points Electricity entering system for supply to consumers' connection points Electricity lesses (loss ratio) Load factor Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated) | of maximum coincident demand (MW) 411 78 489 - 489 Energy (GWh) 2,518 142 396 - 2,772 4,880 (2,108) (76.0%) 0.65 (MVA) 1,654 44 |

| | | Company Name | Powerco Lim | ited |
|---------|---|---------------------------------------|--------------------------|-------------|
| | | For Year Ended | 31 March 2 | 021 |
| | Netw | ork / Sub-network Name | Powerco Lim | ited |
| ссн | EDULE 10: REPORT ON NETWORK RELIABILITY | | | |
| | hedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI | and fault rate) for the disclosure ve | ar EDBs must provide exr | lanatory co |
| | ir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The S | | | |
| in sect | ion 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. | | | |
| n ref | | | | |
| | | | | |
| 8 | 10(i): Interruptions | Number of | | |
| 9 | Interruptions by class | interruptions | | |
| 10 | Class A (planned interruptions by Transpower) | 16 | | |
| 11 | Class B (planned interruptions on the network) | 2,149 | | |
| 12 | Class C (unplanned interruptions on the network) | 3.051 | | |
| 13 | Class D (unplanned interruptions by Transpower) | 8 | | |
| 14 | Class E (unplanned interruptions of EDB owned generation) | | | |
| 15 | Class F (unplanned interruptions of generation owned by others) | 1 | | |
| 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) | 545 | | |
| 19 | Total | 5,770 | | |
| 20 | | · · · · · · · · · · · · · · · · · · · | | |
| 21 | Interruption restoration | ≤3Hrs | >3hrs | |
| 22 | Class C interruptions restored within | 1,751 | 1,300 | |
| 23 | | | | |
| 24 | SAIFI and SAIDI by class | SAIFI | SAIDI | |
| 25 | Class A (planned interruptions by Transpower) | 0.16 | 23.7 | |
| 26 | Class B (planned interruptions on the network) | 0.37 | 88.6 | |
| 27 | Class C (unplanned interruptions on the network) | 1.84 | 169.0 | |
| 28 | Class D (unplanned interruptions by Transpower) | 0.10 | 7.4 | |
| 29 | Class E (unplanned interruptions of EDB owned generation) | | | |
| 30 | Class F (unplanned interruptions of generation owned by others) | 0.00 | 0.0 | |
| 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) | 0.10 | 21.4 | |
| 34 | Total | 2.57 | 310.2 | |
| 35 | | | | |
| | | | | |
| 36 | Normalised SAIFI and SAIDI | Normalised SAIFI Nor | | |
| 37 | Classes B & C (interruptions on the network) | 2.21 | 257.6 | |
| | | | | |

| | | Company Name | Powerco | Limited |
|-----------------|--|------------------|------------------------|------------------------------|
| | | For Year Ended | 31 Mar | ch 2021 |
| | Network / Si | ub-network Name | Powerco | Limited |
| his so n the | IEDULE 10: REPORT ON NETWORK RELIABILITY chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and faul ir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and tion 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 | | | |
| 1 | Cause | SAIFI | SAIDI | |
| 2 | Lightning | 0.12 | 12.48 | |
| | | 0.12 | 30.93 | |
| 3 4 | Vegetation Adverse weather | 0.22 | 0.48 | |
| + 5 | Adverse environment | 0.01 | 2.73 | |
| 6 | Third party interference | 0.01 | 29.39 | |
| р 7 | Wildlife | 0.25 | 11.06 | |
| 8 | Human error | 0.09 | 2.38 | |
| 9 | Defective equipment | 0.77 | 62.32 | |
| 2 | Cause unknown | 0.26 | 17.19 | |
| ı | | · | | |
| 2 | 10(iii): Class B Interruptions and Duration by Main Equipment Involved | | | |
| 4 | Main equipment involved | SAIFI | SAIDI | |
| 5 | Subtransmission lines | 0.00 | 0.61 | |
| 6 | Subtransmission cables | | | |
| 7 | Subtransmission other | | | |
| 8 | Distribution lines (excluding LV) | 0.32 | 77.85 | |
| 9 | Distribution cables (excluding LV) | 0.01 | 1.76 | |
| 2 | Distribution other (excluding LV) | 0.04 | 8.42 | |
| 1 2 | 10(iv): Class C Interruptions and Duration by Main Equipment Involved | | | |
| 3 | Main equipment involved | SAIFI | SAIDI | |
| 4 | Subtransmission lines | 0.33 | 23.0 | |
| 5 | Subtransmission rables | 0.00 | 2010 | |
| 6 | Subtransmission other | 0.04 | 2.01 | |
| 7 | Distribution lines (excluding LV) | 1.26 | 129.37 | |
| 8 | Distribution cables (excluding LV) | 0.11 | 9.66 | |
| 9 | Distribution other (excluding LV) | 0.10 | 4.94 | |
| 2 | 10(v): Fault Rate | | | |
| 1 | Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (fai per 100km |
| 2 | Subtransmission lines | 160 | 1,494 | 10 |
| 2 | Subtransmission lines Subtransmission cables | 100 | 1,494 | 10 |
| 4 | Subtransmission cables | 9 | 204 | |
| 4 5 | Subtransmission other Distribution lines (excluding LV) | 3,836 | 14,776 | 25 |
| 5 | Distribution lines (excluding LV) Distribution cables (excluding LV) | 131 | 2,185 | 6 |
| | | | 2,103 | |
| 7 | Distribution other (excluding LV) | 220 | | |

| | | Company Name | Power | co Limited |
|---------|--|--------------------------------------|-------------------|-----------------------|
| | | For Year Ended | 31 M | arch 2021 |
| | Netw | ork / Sub-network Name | | ern Region |
| COL | | | | |
| | IEDULE 10: REPORT ON NETWORK RELIABILITY chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI | and fault rate) for the disclosure w | aar EDBs must pro | vide explanatory comm |
| | eir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The | | | |
| in sect | tion 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. | | | |
| h ref | | | | |
| 8 | 10(i): Interruptions | | | |
| 0 | 10(1). Interruptions | Number of | | |
| 9 | Interruptions by class | interruptions | | |
| 10 | Class A (planned interruptions by Transpower) | 9 | | |
| 11 | Class B (planned interruptions on the network) | 1,266 | | |
| 12 | Class C (unplanned interruptions on the network) | 2,085 | | |
| 13 | Class D (unplanned interruptions by Transpower) | 7 | | |
| 14 | Class E (unplanned interruptions of EDB owned generation) | | | |
| 15 | Class F (unplanned interruptions of generation owned by others) | 1 | | |
| 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) | 299 | | |
| 19 | Total | 3,667 | | |
| 20 | | | | |
| 21 | Interruption restoration | ≤ 3 Hrs | >3hrs | |
| 22 | Class C interruptions restored within | 1,243 | 842 | |
| 23 | | | | |
| 24 | SAIFI and SAIDI by class | SAIFI | SAIDI | |
| 25 | Class A (planned interruptions by Transpower) | 0.07 | 9.56 | |
| 26 | Class B (planned interruptions on the network) | 0.43 | 99.68 | |
| 27 | Class C (unplanned interruptions on the network) | 1.96 | 170.37 | |
| 28 | Class D (unplanned interruptions by Transpower) | 0.17 | 13.92 | |
| 29 | Class E (unplanned interruptions of EDB owned generation) | | | |
| 30 | Class F (unplanned interruptions of generation owned by others) | 0.00 | 0.0 | |
| 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) | 0.13 | 22.9 | |
| 34 | Total | 2.76 | 316.5 | |
| 35 | | | | |
| | | | | |
| 36 | Normalised SAIFI and SAIDI | Normalised SAIFI No | | |
| 37 | Classes B & C (interruptions on the network) | 2.39 | 270.0 | |
| | | | | |

| | | Company Name | Powerco | Limited |
|------------------|---|------------------|------------------------|------------------------------|
| | | For Year Ended | 31 Mai | ch 2021 |
| | Network / Sul | b-network Name | Wester | n Region |
| his sc on the | IEDULE 10: REPORT ON NETWORK RELIABILITY chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault of ir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and 1 ition 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 Lightning Vegetation Adverse environment | | | |
| 6 | Third party interference | 0.27 | 25.99 | |
| 7 | Wildlife | 0.13 | 10.74 | |
| 8 | Human error | 0.07 | 1.85 | |
| 9 | Defective equipment | 0.94 | 70.58 | |
|) 1 | Cause unknown | 0.24 | 16.30 | |
| 2 3 | 10(iii): Class B Interruptions and Duration by Main Equipment Involved | | | |
| 4 | Main equipment involved | SAIFI | SAIDI | |
| 5 | Subtransmission lines | 0.00 | 1.1 | |
| 6 | Subtransmission cables | | | |
| 7 | Subtransmission other | | | |
| 8 | Distribution lines (excluding LV) | 0.36 | 86.45 | |
| 9 0 | Distribution cables (excluding LV) | 0.01 | 1.46 10.65 | |
| 1 | Distribution other (excluding LV) 10(iv): Class C Interruptions and Duration by Main Equipment Involved | 0.05 | 10.05 | |
| 3 | Main equipment involved | SAIFI | SAIDI | |
| 4 | Subtransmission lines | 0.25 | 11.9 | |
| 5 | Subtransmission rables | 0.25 | 11.5 | |
| 6 | Subtransmission ether | 0.04 | 2.1 | |
| 7 | Distribution lines (excluding LV) | 1.48 | 147.12 | |
| 8 | Distribution cables (excluding LV) | 0.07 | 4.20 | |
| 9 | Distribution other (excluding LV) | 0.13 | 5.06 | |
| 0 | 10(v): Fault Rate | | | |
| 1 | Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (fau per 100km |
| 2 | Subtransmission lines | 127 | 952 | 13 |
| 2 | Subtransmission lines | 127 | 100 | 13 |
| 1 | Subtransmission cables | 6 | 100 | |
| 5 | Distribution lines (excluding LV) | 2,682 | 10,085 | 26 |
| 5 | Distribution cables (excluding LV) | 46 | 780 | 5 |
| 7 | Distribution other (excluding LV) | 141 | | |
| | | | | |

| | | Company Name | Powerco | Limited |
|--------|--|-----------------------------------|-----------------------|---------------------|
| | | For Year Ended | 31 Mai | ch 2021 |
| | Netwo | rk / Sub-network Name | | Region |
| ~~~ | | | Lusteri | періон |
| | HEDULE 10: REPORT ON NETWORK RELIABILITY | | | |
| | schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI ar neir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SA | | | |
| | ction 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. | IFI and SAIDI Information is part | or addited disclosure | information (as den |
| | ···· ··· ··· ··· ··· ··· ··· ··· ··· · | | | |
| ch ref | | | | |
| 8 | 10(i): Interruptions | | | |
| Ũ | | Number of | | |
| 9 | Interruptions by class | interruptions | | |
| 10 | Class A (planned interruptions by Transpower) | 7 | | |
| 11 | Class B (planned interruptions on the network) | 883 | | |
| 12 | Class C (unplanned interruptions on the network) | 966 | | |
| 13 | Class D (unplanned interruptions by Transpower) | 1 | | |
| 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) | 246 | | |
| 19 | Total | 2,103 | | |
| 20 | | | | |
| 21 | Interruption restoration | ≤3Hrs | >3hrs | |
| 22 | Class C interruptions restored within | 508 | 458 | |
| 23 | | | | |
| 24 | SAIFI and SAIDI by class | SAIFI | SAIDI | |
| 25 | Class A (planned interruptions by Transpower) | 0.26 | 39.43 | |
| 26 | Class B (planned interruptions on the network) | 0.31 | 76.46 | |
| 27 | Class C (unplanned interruptions on the network) | 1.70 | 167.41 | |
| 28 | Class D (unplanned interruptions by Transpower) | 0.02 | 0.15 | |
| 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) | 0.08 | 19.7 | |
| 34 | Total | 2.37 | 303.2 | |
| 35 | | | | |
| | | | | |
| 36 | Normalised SAIFI and SAIDI | Normalised SAIFI Nor | malised SAIDI | |
| 37 | Classes B & C (interruptions on the network) | 2.01 | 243.9 | |
| | | | | |

| | | Company Name | Powerco | Limited |
|-------|---|--|--|--|
| | | For Year Ended | 31 Marc | |
| | | Network / Sub-network Name | Eastern | |
| - | EDULE 10: REPORT ON NETWORK RELIABILITY | | | |
| n the | chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, eir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates tion 1.4 of the ID determination), and so is subject to the assurance report required by section 10(ii): Class C Interruptions and Duration by Cause Lightning Vegetation Adverse weather Adverse environment | . The SAIFI and SAIDI information is p | | |
| | Third party interference | 0.22 | 33.14 | |
| | Wildlife | 0.10 | 11.40 | |
| | Human error | 0.12 | 2.97 | |
| | Defective equipment | 0.58 | 53.20 | |
| | Cause unknown | 0.29 | 18.17 | |
| | 10(iii): Class B Interruptions and Duration by Main Equipment Main equipment involved | SAIFI | SAIDI | |
| | Subtransmission lines | 0.00 | 0.1 | |
| | Subtransmission cables | | | |
| | Subtransmission other | | | |
| | Distribution lines (excluding LV) | 0.28 | 68.34 | |
| | Distribution cables (excluding LV) | 0.01 | 2.10 | |
| | Distribution other (excluding LV) | 0.03 | 5.97 | |
| | 10(iv): Class C Interruptions and Duration by Main Equipment | Involved | | |
| | Main equipment involved | SAIFI | SAIDI | |
| | Subtransmission lines | 0.41 | 35.3 | |
| | Subtransmission cables | | | |
| | Subtransmission other | 0.05 | 1.90 | |
| | Distribution lines (excluding LV) | 1.01 | 109.75 | |
| | · · · · · · · · · · · · · · · · · · · | | | |
| | Distribution cables (excluding LV) | 0.16 | 15.69 | |
| | · · · · · · · · · · · · · · · · · · · | 0.16 0.08 | 15.69 4.81 | |
| | Distribution cables (excluding LV) | | 4.81 | Fault rate (fa |
| | Distribution cables (excluding LV) Distribution other (excluding LV) | | | |
| | Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate | 0.08 | 4.81 Circuit length | per 100km) |
| | Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved | 0.08 Number of Faults | 4.81 Circuit length (km) | per 100km |
| | Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved Subtransmission lines | 0.08 Number of Faults | 4.81 Circuit length (km) 542 | per 100km |
| | Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved Subtransmission lines Subtransmission cables | 0.08 Number of Faults 33 | 4.81 Circuit length (km) 542 | per 100km) 6 |
| | Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other | 0.08 Number of Faults 33 3 | 4.81 Circuit length (km) 542 154 | Fault rate (fau per 100km) 6 - - - 24 6 |

|--|

31 March 2021

For Year Ended

Schedule 14 Mandatory Explanatory Notes

(Guidance Note: This Microsoft Word version of Schedules 14, 14a and 15 is from the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018. Clause references in this template are to that determination)

- 1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).
- 2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
- 3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

Return on Investment (Schedule 2)

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

Box 1: Explanatory comment on return on investment

The disclosed ROI under both a Vanilla and Post tax approach for 2021 is lower than 2020 (decreased 4.51% to 2.88% and 4.42% to 2.55% respectively). This is primarily driven by a \$49.2m (12.2%) decrease in line charge revenue to \$353.3m and the inclusion of a disposals provision on Commissioned Work in Progress (WIP).

Regulatory Profit (Schedule 3)

- 5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
 - 5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
 - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

Regulatory profit for the year ended 31 March 2021 is \$55.87m reflecting an decrease of \$75.5m (57.5%) compared to the previous year. This was primarily due to decreases in total regulatory income (ψ \$83.4m, 21.0%), lower revaluations (ψ \$15.7m, 35.1%), higher depreciation (\uparrow \$10.6m, 15.1%), higher operating expenditure (\uparrow \$1.2m, 1.3%) offset by lower pass-through and recoverable costs (ψ \$13.9m, 11.8%), and regulatory tax (ψ \$21.7m, 68.7%).

Other regulated income includes:

- reimbursement of costs arising from network damage caused by a third party (e.g. income received from insurers or directly from the third parties), and
- revenue for shared corporate services provided by the regulated business to related parties.

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

- 6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
 - 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
 - 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

Box 3: Explanatory comment on merger and acquisition expenditure No merger and acquisition expenditure was incurred during the disclosure 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 subclause 2.7.1(2).

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

The closing Regulatory Asset Base (RAB) value has increased by \$90.9m (4.6%) during the year to \$2,054m. Commissioned assets (\downarrow \$24.0m, 11.5%) and Revaluations (\downarrow \$15.7m, 35.1%) were lower than 2020. Depreciation (\uparrow \$10.6m, 15.1%) and Disposals (\uparrow \$34.6m) were higher than 2020.

The Disposals number is significantly higher than 2020 because of a change in the underlying methodology to calculate the Disposals. The change is that Disposals now include a provision amount which aligns with the accounting treatment. This provision is for disposals related to Commissioned Work in Progress (WIP).

One of the drivers of the increased depreciation is that a Depreciation provision on WIP has been recognised in 2021 for the first time. This now aligns with the accounting treatment.

The inclusion of provisions for Depreciation and Disposals related to WIP was driven by the increasing WIP balance over the last two years, resulting from our transition to a new ERP system.

The adjustment resulting from asset allocations consists of two main items.

- 1) A change in treatment of some non-network easements assets. They were previously classified as a shared asset, subject to asset allocation. They are now classified as an electricity non-network asset.
- 2) The removal of the 2021 movement in fibre related pole assets from the RAB. This is due to the removal of Avoidable Cost Allocation Methodology (ACAM) as a stand-alone cost allocation methodology from 01 April 2018.

The asset category transfer line in Schedule 4 (vii) represents the movement in WIP. The movements are detailed below.

| Subtransmission lines (\$000) | Subtransmission cables (\$000) | Zone substations (\$000) | Distribution and LV Lines (\$000) | Distribution & LV cables (\$000) | Distribution substations & transformers (\$000) | Distribution Switchgear (\$000) | Other network assets (\$000) | Non-network assets (\$000) |
|-------------------------------------|--------------------------------------|--------------------------------|---|--|--|---------------------------------------|---------------------------------------|----------------------------------|
| (\$23) | (\$8) | (\$21) | (\$58) | (\$12) | (\$7) | (\$2) | \$131 | \$0 |

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

- 8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-
 - 8.1 Income not included in regulatory profit / (loss) before tax but taxable;
 - 8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;
 - 8.3 Income included in regulatory profit / (loss) before tax but not taxable;
 - 8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

There is \$1.7m of income that is not included in regulatory profit / (loss) before tax but is taxable. This relates predominantly to customer contribution revenue that is recognised over 10 years for tax purposes.

There is \$0.4m of expenditure in regulatory profit that is not deductible for tax relating to legal and entertainment expenditure.

There is no income included in regulatory profit / (loss) before tax but not taxable.

There is \$0.2m deductible for tax but not in regulatory profit / (loss) relating to interest on leases under NZ IFRS-16.

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

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

Box 6: Tax effect of other temporary differences (current disclosure year) Temporary differences amount to -\$1.5m. The total tax effect of -\$0.4m relates to:

- \$0.3m CIW income that will be recognised as taxable income over a period of 10 years
- -\$0.2m movement in employee related provisions
- -\$0.5m other provisions associated with year-end

Cost allocation (Schedule 5d)

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

Box 7: Cost allocation

Powerco has adopted a fully distributed cost approach to allocate shared costs between Powerco's electricity distribution, gas distribution and unregulated businesses.

Directly attributable costs

\$59.2m operating costs (65.1% of total operating costs) are directly attributable to the electricity distribution business (EDB) compared to \$58.8m in the previous disclosure year.

All operating costs except specified systems operations and network support (SONS) costs and specified business support costs are directly attributable to the specific regulated businesses. Costs that are directly attributable to the electricity distribution business primarily relate to:

- SONS (except network information services management costs)
- Customised Price-Quality Path related costs
- Network management and administration
- Customer related costs

Proxy allocators

Powerco adopts ABBA (accounting-based allocation approach) to determine the cost allocators that are used to allocate operating costs not directly attributable (less any arm's length deduction) to the electricity distribution business or any other regulated service. If a causal relationship cannot be established between the cost incurred and the cost driver a proxy relationship may be used to determine the cost allocator.

Following analysis of each financial statement item by Powerco's management team and based on a combination of experience, knowledge and the comparative sizes of Powerco's regulated businesses proxy relationships have been used to allocate operating costs for which a causal relationship cannot be established. The main reason a causal relationship cannot be established is that some costs do not have just one driver. The use of one cost allocator would unfairly affect the allocation of costs between regulated businesses.

Costs not directly attributable

\$31.7m operating costs (34.9% of total) that are not directly attributable to the EDB have been allocated to the EDB, compared to \$31.0m in the prior disclosure year.

Costs that are not directly attributable to the electricity distribution business primarily relate to SONS network information services management and business support costs.

SONS network information services management costs include personnel costs and professional service fees. A proxy fixed asset allocator based on the carrying value of network fixed assets is used.

Business support costs include personnel, professional services, information technology, building & insurance, administration and communication & marketing. The allocators vary as follows:

- Corporate services apply a proxy allocator of distribution line charge revenue
- Human resources apply a proxy allocator of employee numbers
- Regulatory management apply a causal allocation of managements estimate of staff time working on electricity regulated, other regulated and unregulated services and legal apply a proxy fixed asset allocator
- Insurance apply causal allocators of indemnity values, vehicle allocations and employee numbers
- Facility costs apply a causal allocator of employee numbers and a proxy fixed assets allocator
- Information systems and projects apply a proxy fixed asset allocator

Only one allocation methodology has been applied to each functional area and there have been no changes to any cost allocator used in the current disclosure year.

Asset allocation (Schedule 5e)

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

Box 8: Commentary on asset allocation

\$1,983m (96.6%) of the total RAB value is directly attributable to the electricity distribution business (EDB). \$70.4m (3.4%) of the total RAB value is not directly attributable but has been allocated to the EDB. In the previous disclosure year, the proportionate split was 96.7% and 3.3% respectively.

The principles supporting Powerco's asset allocation are consistent with the principles supporting cost allocation described in Box 7.

Shared non-network assets have been allocated to the regulatory asset base based on the proxy allocator of fixed asset net book value.

There have been no reclassifications in the period reported.

Capital Expenditure for the Disclosure Year (Schedule 6a)

- 12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
 - 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
 - 12.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 9: Explanation of capital expenditure for the disclosure year

Expenditure on assets for the year ended March 2021 totalled \$241.7m which is \$46.3m (23.7%) more than the prior year (\$195.4m). This reflects increased expenditure across all asset expenditure categories except consumer connection and non-network. A \$33.8m increase in asset replacement and renewal, a \$5.9m increase in quality of supply and a \$5.3m increase in system growth accounts for 97% of the total \$46.3m increase.

Materiality threshold

A number of capex project and programme classifications exist. Whether they are material is defined as follows:

- quality of supply project the project value exceeds 5% of the category's total value
- asset relocation project the project value exceeds \$100k
- other reliability, safety and environment project or programme expenditure exceeds \$150k
- non-network programme expenditure exceeds \$300k

Reclassified items

No capital expenditure has been reclassified during the current disclosure year.

Operational Expenditure for the Disclosure Year (Schedule 6b)

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

- 13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
- 13.2 Information on reclassified items in accordance with subclause 2.7.1(2);
- 13.3 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 10: Explanation of operational expenditure for the disclosure year

Operating expenditure (opex) for the year ended March 2021 totalled \$90.9m which is \$1.2m (1.3%) more than the prior year (\$89.8m). Service interruptions and emergency expenditure decreased \$1.2m, vegetation management increased \$0.6m, while business support expenditure increased \$1.8m. Variances noted across the remaining opex categories are small and account for the balance of the total opex increase.

Reclassified items

No items have been reclassified during this disclosure year.

Atypical expenditure

There have been no material items of atypical expenditure.

Variance between forecast and actual expenditure (Schedule 7)

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

Box 11: Explanatory comment on variance in actual to forecast expenditure Expenditure on assets

Expenditure on assets (network and non-network) for the year ended March 2021 totalled \$241.7m which is \$8.3m (3.6%) above the 2020 Asset Management Plan (AMP) forecast (\$233.4m). This net overspend is the result of a \$10m (4.6%) overspend on expenditure on network assets and a \$1.7m (10%) underspend on expenditure on non-network assets.

Consumer connection

Customer development remained relatively strong across much of the Powerco footprint and was only \$6.9m (14.5%) lower than forecast. The six-week lockdown in April and early May had a significant impact on Customer activity, with contractors unable to carry out work during that period. However, there were several records broken for volume and value of customer projects in subsequent months. A small decline in activity in the Powerco Eastern Network was offset by record growth across the Western Network. Subdivisions and associated residential connections were exceptionally strong, along with numerous Retirement Home developments. There was also a significant amount of Commercial and Industrial activity, with Coolstore upgrades across the Tauranga Network, new Distribution Centres in Palmerston North and multiple light industrial subdivisions across the entire Powerco footprint.

• System growth

Actual expenditure on system growth is less than forecast by \$15.1m (23%). Much of this variance is due to the challenges encountered with the design and landowner agreements on several large projects that has seen the construction expenditure deferred to FY2022 and FY2023.

- Omokoroa Detailed design and the finalisation of landowner agreements occurred in FY2021 with the commencement of construction deferred to FY2022.
- Putaruru-Tirau Detailed design and procurement activities are now complete, with construction now scheduled for FY2022.
- Kaimarama-Whitianga Landowner agreement has been reached in principal for the switching station site. It is now planned to complete detailed design and procurement in FY2022 and begin substation civil works.
- Taupo Quay Second Circuit this project was halted due to escalating cost forecasts and has been substituted with an alternative project with FY22/23 construction.
- Roberts Ave to Peat Street Circuit delayed due to consenting and cable route discussions with Nga Tangata Tiaki.
- Feilding Transformer Upgrade deferred to allow further options analysis to be undertaken.
- Asset replacement and renewal

Asset replacement and renewal expenditure was higher than forecast by \$23.7m (25%). A significant amount of overhead renewals work was brought forward into FY2021 in response to the anticipated underspend in system growth projects. Overhead renewal projects provided this opportunity given a large pool of construction-ready projects with resources available to deliver.

During FY2021, we carried out a review of the different types of equipment on our electricity network, including the required repair times and the risk to supply for specific equipment failures. Following this network criticality review, we decided to strengthen our holdings of critical spares by \$3m. This additional asset replacement and renewal expenditure was not included in our AMP20 forecasts.

• Asset relocations.

Asset Relocations were mostly related to Council roading projects throughout the Powerco Network area. The upgrade of a Transpower substation at Waikino created the underground conversion of Powerco 33kV lines on adjacent properties. There were a number of smaller projects related to relocating Powerco assets for safety, such as LV fuse pillars near driveways that were vulnerable to vehicle damage.

- Reliability, safety and environment
 - Quality of supply

Expenditure on quality of supply exceeded forecast for the period by \$7.1m (183%). This increase in expenditure was primarily due to a focus on accelerating reliability initiatives. This was to help maintain expenditures levels in anticipation of reduced spend in consumer connections due to the impacts of Covid 19 on the demand for new connections. These initiatives included the rollout of line

fault indicators (LFI), low voltage monitoring equipment and generation projects.

- Other reliability, safety and environment

Expenditure on other reliability, safety and environment was \$3.8m (114%) higher than forecast. This variance is largely due to expenditure on LiDAR data capture. In FY2021, we undertook a full LiDAR survey (\$3.4m) following a successful trial in FY2020. This full survey wasn't originally included in the AMP20 forecasts.

• Expenditure on non-network assets

Expenditure on non-network assets was \$1.7m (10.0%) under forecast. The variance resulted from the timing of a planned upgrade of the Enterprise Asset Management System.

Operational expenditure

Operational expenditure (opex) totalled \$90.9m during the period which is \$8.7m (8.7%) below the 2020 Asset Management Plan (AMP) forecast (\$99.6m). Network opex was \$5.4m (11.7%) lower than forecast, primarily driven by underspend on routine corrective maintenance and inspections while non-network opex was \$3.3m (4.4%) below the forecast.

Commentary is provided for each category where the variance against target exceeds 5.0% (subject to the difference being material in dollar terms).

• Service interruptions and emergencies

Expenditure on service interruptions and emergencies was \$1.4m (18.6%) lower than forecast. The underspend relates primarily to the actual rate of unplanned faults on the network during FY2021 being lower than forecast, particularly regarding distribution line faults.

• Vegetation management

Expenditure on vegetation management was \$1.0m (10.5%) higher than forecast. Management approved an in-year increase in spend to enable the removal of a greater number of risk trees from the network, and additional expenditure was allocated to achieving wider corridors from selected sub transmission feeders using mechanical and aerial methodology.

• Routine corrective maintenance and inspections

Expenditure on routine corrective maintenance and inspections was \$3.4m (20.4%) lower than forecast. The primary reasons for this underspend are:

- The impact of Covid lockdown restrictions on the completion of non-urgent maintenance activities;
- Poletop photography (\$1.2m) was originally forecast under Opex, but delivered as a Capex project; and
- Some high value maintenance activities deferred to FY22 due to planned SAIDI/SAIFI constraints.

• Asset replacement and renewal

Expenditure on asset replacement and renewal was \$1.6m (13.1%) lower than forecast. As for the underspend in Service interruptions and emergencies Opex, a lower than forecast unplanned fault rate has resulted in a lesser requirement for remedial work following faults.

Information relating to revenues and quantities for the disclosure year

- 15. In the box below provide-
 - 15.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and

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

Box 12: Explanatory comment relating to revenue for the disclosure year

Powerco's actual revenue for the year ended 31 March 2021 was \$353.3m compared to target revenue of \$351.6m. There is no material difference between target revenue and total billed line charge revenue.

Network Reliability for the Disclosure Year (Schedule 10)

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

Box 13: Commentary on network reliability for the disclosure year

For the year ended March 2021, Powerco's normalised SAIDI (Class B and Class C) was 258 minutes, slightly extending the worsening trend in unplanned fault restoration durations. SAIFI (Class B and Class C) dropped slightly to 2.21 reflecting the impact of fewer major storms.

The increasing SAIDI supports Powerco's analysis in its customised price path (CPP) application of underlying deterioration in the network performance, reflecting declining asset condition. This is one of the drivers for increasing our investment in asset renewal. Despite increasing expenditure across a number of areas, we expect at best, only marginal improvement in network performance (measured by the average level of unplanned interruptions) during the CPP period; but with increasing improvements over the longer term.

Calculating reliability results

Powerco has well developed processes to capture outage/interruption information and ensure the accuracy of these records. In utilising this data to complete schedule 10 the following key calculation steps are applied:

- To calculate SAIDI and SAIFI customer connection numbers ("ICPs") are calculated from the Geographic Information System ("GIS") for the transformers affected. ICPs are updated to the GIS daily from the Electricity Registry;
- The customer connection number used in the annual calculation of SAIDI and SAIFI is the average of the daily customer numbers over the Assessment year. The sum of all customer minutes interrupted is divided by the average customer connection numbers to derive the annual SAIDI minutes and SAIFI value; and
- Calculation of the final year result is completed using the outage/interruption records in the Outage Management Database noting refinements to the data to correct for a number of practical delays affecting the recorded restoration time for many faults; these include SCADA polling delays, voice communication constraints and clock time coding discrepancies. Consistent with previous reporting periods, an adjustment of three minutes per interruption is made across all fault records to correct for these discrepancies. Powerco's CPP proposal includes investment planned to improve communication systems over the five-year CPP period ending March 2023. It is expected the improved communications systems will see the communications adjustment phased out by the end of the CPP period.

The normalised results for Powerco

The normalised result (line 37 of Schedule 10) reports SAIDI and SAIFI by applying the methodology contained in the Information Disclosure Determination (IDD).

This methodology is different to the methodology used for calculating SAIDI and SAIFI for the Customised Price-Quality Path (CPP) compliance statement therefore the actual normalised result reported in this information disclosure should not be compared with the CPP quality path normalised reliability limits.

The Commerce Commission is aware of this inherent inconsistency and will consider this issue in future amendments to the Information Disclosure Determination¹. From 2019 the quality path normalised reliability limits are not required to be disclosed in this Schedule 10.

The normalised results for Powerco's sub-networks

When calculating the normalised SAIDI and SAIFI for the sub-networks for the purposes of Information Disclosure, Powerco has derived normalised datasets for each sub-network using boundary values calculated using the reference dataset (2005-2009 disclosure years) for each sub-network. This approach follows one of the two options provided by the Commerce Commission in its Issues Register for Electricity and Gas Information Disclosure². Powerco has chosen this option as we consider it provides a more meaningful analysis of the actual performance of each sub-network than the alternative option of applying a Powerco

¹ Commerce Commission's issues register for gas and electricity information disclosure, item number 447.

² Commerce Commission's issues register for gas and electricity information disclosure, item number 231.

wide network boundary value to the sub-networks.

Insurance cover

- 17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-
 - 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
 - 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 14: Explanation of insurance cover

Powerco holds significant insurance cover relating to material damage and business interruption, targeted at key assets. This includes full cover for buildings and contents, substations and IS server equipment, and natural disaster cover for distribution transformers and SCADA equipment.

Powerco continues to prudently insure our network and other assets where it is economically feasible to do so, in line with good industry practice. Cover for poles, wires and pipes (commonly referred to as transmission and distribution cover) are, for all practical purposes, unavailable in NZ. Where it may be available in small amounts across our geographic region, the cost is considered to be uneconomic versus the risk, as there is a restricted retained limit and a premium cost of 10-15% of the sum insured.

To manage the immediate financial exposure to a catastrophic event affecting uninsured assets, the company maintains headroom in its debt facilities as explained below. The geographically diverse nature of Powerco's assets, and the resilience of those assets, also provides some practical mitigation of seismic risks.

Powerco maintains debt facilities, in excess of net (drawn) debt, that would be available for use should events occur which require extra funds to be made available quickly. This headroom amount is in excess of our day-to-day working capital requirements.

The value of this facility headroom, currently \$70 million, is based primarily on an assessment of the uninsured damage to Powerco's network assets undertaken by Marsh Risk Consulting. This analysis reviewed the catastrophic risk and expected loss from a catastrophic event, and was last assessed at \$50-70 million.

Insurance costs are allocated to Powerco's separate businesses following Powerco's allocation policies discussed earlier in this document.

Amendments to previously disclosed information

- 18. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
 - 18.1 a description of each error; and
 - 18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 15: Disclosure of amendment to previously disclosed information There have been no amendments to previously disclosed information.

Company Name

For Year Ended

Schedule 15 Voluntary Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)

- 1. This schedule enables EDBs to provide, should they wish to-
 - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
 - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of 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 Finance (schedules 2-7)

Weighted average remaining useful life of assets (schedule 4)

The weighted average remaining useful life of assets has been calculated in accordance with Schedule 16 of the Information Disclosure Determination which specifies the weighting is based on opening RAB values. Opening RAB is a depreciated value that skews the weighted average remaining useful life value towards the newer, and consequently, higher value longer remaining life assets. This measure is therefore not a true reflection of the age of Powerco's assets.

It is also important to note that asset age, particularly total average remaining asset life, is not a key driver of the need to replace network assets. Good asset management practice would suggest this is primarily driven by overall asset health – i.e. condition/performance/criticality. For this reason, Powerco's forecast investment profiles set out in the company's current Asset Management Plan are not directly linked to addressing specific movements in average asset age although this is one of a number of key considerations.

Disposals and Depreciation provisions

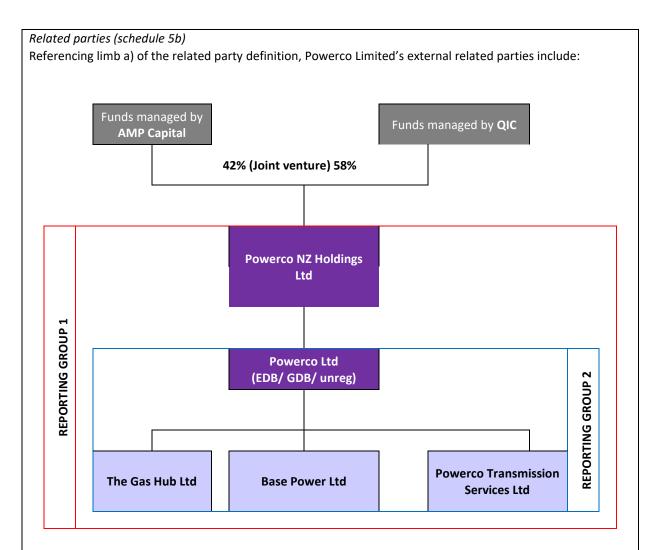
As noted in Box 4 the disposals and depreciation result for the current year include provisions related to Commissioned WIP that is included in RAB.

Powerco implemented a new ERP system in the 2020 Disclosure year, and since this implementation, the balance of assets that are commissioned but remain in WIP has increased significantly. Any disposal or depreciation related to these new assets is not captured in the ERP system. This has highlighted the need to include provisions in 2021, to reflect that the growth in value of Commissioned WIP should also result in disposals related to the commissioned WIP, and depreciation where the assets have been included in commissioned WIP for more than one year.

The disposal and depreciation provisions apply the same methodology as is used for accounting, while also ensuring that these provisions are calculated in line with the relevant Input Methodology.

The high level of disposals included in 2021 reflects this change in methodology. The provision included in 2021 captures new assets included in commissioned WIP this year, and assets that remain in commissioned WIP from previous years.

This provision-based approach will be used in future years.



- Powerco NZ Holdings Limited does not trade. Its purpose is to form a corporate group through share ownership.
- Powerco Limited is primarily a regulated electricity and gas distribution business. It also conduct's unregulated activities such as gas metering and includes a business development team to identify and take advantage of both regulated and unregulated opportunities. Powerco Limited provides business support services to Base Power Ltd and the unregulated 'parts' of the regulated business.
- The Gas Hub Limited and Powerco Transmission Limited are not active.
- Base Power Limited provides remote area power supply units to the market and Powerco's Electricity Distribution business.

Referencing limb b) of the related party definition, Powerco Limited's internal related parties include:

• Gas metering

All related party transactions are valued on an equivalent arm's length basis. Powerco Limited has not adopted the consolidation approach. Depending on the type of transaction the valuation method may require the application of a:

- a) market-tested value; or
- b) market-tested margin.

Powerco applies a market-tested value to expenditure on assets purchased from Base Power Ltd.

Powerco applies a market-tested margin to regulatory income for business support services provided to related parties. To ensure Powerco's valuation of related party transactions is based on an objective and

independent measure, PwC were engaged to report the margin benchmarks observed in the market for relevant corporate services.

- The equivalent arm's length value of services provided to Base Power Limited is \$34.1k, of which \$33.6k is allocated to Powerco's Electricity Distribution business.
- The equivalent arm's length value of services provided to Gas metering is \$507k, of which \$2.5k is allocated to Powerco's Electricity Distribution business.

Overhead to underground conversion (schedule 6a)

Powerco does not collect information separately where the conversion from overhead line to underground cable forms part of a larger project. The capital expenditure for this metric reported in schedule 6a is for those projects that are only converting overhead distribution to underground.

Reintroduction of building depreciation

Most buildings have not been eligible for tax depreciation since 2011; however, with effect from the 2020/21 income year, certain buildings will once again be eligible for depreciation using the diminishing value method at a rate of 2% per annum or the straight-line rate of 1.5% per annum.

As a result of this Powerco has included an additional \$5.3m adjustment to the Regulatory Tas Asset Base Roll-Forward Schedule 5a(viii). This is in addition to a \$7.3m adjustment that was included in 2020. This is included in the Other adjustments to the RAB tax value line. The further adjustments in the current disclosure year reflect additional buildings that need to be included in the Regulatory Tax Asset Base that were not identified in the 2020 Information Disclosure.

Asset Information (schedules 9a-9c)

Asset management system

The implementation of a new ERP system during the 2020 disclosure period brought transformational change to asset management processes, applications, and technology. In particular, the asset register migrated from GIS to SAP. While the migration approach generally avoided transformation of asset data structure and content, some change was inherent. Applications and process were significantly transformed with some impact to asset data outcomes. Some shifts within the age profile were caused by the way installation dates have been inferred where they are not directly recorded.

Data quality

Powerco's network is made up of fifteen legacy lines networks that have been amalgamated over time. This diversity has created ongoing data and systems integration and improvement challenges. We continue to invest in improving the quality and completeness of our asset-related data sets. Whilst we believe that the quality of our data is adequate for business purposes, and in line with the levels of quality available by other electricity distributors, there are some known limitations to our current data set as set out in schedules 9a and 9b; key points are noted as follows:

- Underlying asset data comprises a comprehensive set of network information that is generally complete and consistently applied. However, a small proportion of the asset data is either internally conflicting or not wholly reliable and, for a small number of asset categories, there are also gaps in the attribute information.
- Ongoing programmes of work are underway to improve the completeness and accuracy of our asset data. This work can impact asset quantities and age profile.
- Some asset ages have been estimated after initial data capture. While based on the best information available, these estimates are likely to contain some inaccuracies.
- Some date information is known to have been defaulted and is reported as such.

Network asset classification

The programmes we have put in place to ensure ongoing improvement of asset data over time, as well as the process of clarification used by the Commission to ensure data is calculated on a consistent basis between companies, means that from time to time we re-categorise small numbers of assets to reflect the latest

guidance and latest available data.

Asset categorisation

Powerco operates network assets, as set out in table 2, which do not clearly fit into a specified category. These assets have been included in the category that most closely relates to the asset type and function

Table 2: Asset categorisation

| Turne | Included in | | | | |
|--|----------------------------|--|--|--|--|
| Туре | Category | Class | | | |
| Ground mounted 33/66kV fuses | Zone substation switchgear | 33kV switch (ground mounted) | | | |
| Pole mounted 33/66kV fuses | Zone substation switchgear | 33kV switch (pole mounted) | | | |
| 33kV reclosers | Zone substation switchgear | 22/33kV CB (outdoor) | | | |
| Reclosers in zone substations | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | | | |
| Ground mounted 3.3/6.6/11/22kv fuses | Distribution switchgear | 3.3/6.6/11/22kv switch (ground mounted) except RMU | | | |
| Pole mounted distribution conversion and SWER isolation transformers | Distribution transformer | Pole mounted transformer | | | |
| Ground mounted distribution conversion and SWER isolation transformers | Distribution transformer | Ground mounted transformer | | | |
| Ground mounted subtransmission switchgear (not in zone substations) | Zone substation switchgear | 33kV switch (ground mounted) | | | |
| Pole mounted subtransmission switchgear (not in zone substations) | Zone substation switchgear | 33kV switch (pole mounted) | | | |
| Protection system pilot circuits | Not included ³ | Not included | | | |

Low voltage circuit length

Powerco notes that low voltage circuit length has been calculated in accordance with information provided by the Commission. This requires low voltage service lines in transport corridors (other than road crossings) to be excluded. For completeness, Powerco considers that this definition understates the practical circuit length under management by Powerco.

Circuits in sensitive areas Powerco does not record sensitive area geography and therefore no circuit length is reported for this criterion.

³ Refer to the information disclosure determination issues register published by the Commerce Commission

Circuit length under vegetation management

Powerco's vegetation management policy applies to the whole overhead electricity network. Subject to annual budget constraints, this strategy involves an intensive trimming period in high criticality areas until the areas are under control and then a reduction to a sustainable level of vegetation management to maintain clearance from the lines.

Transformer capacity (schedule 9e)

Distribution transformer capacity

The disclosed Powerco owned distribution transformer capacity includes transformers that are recorded as being network connected. In accordance with Powerco's operational approach to ownership, transformer assets with no clear owner are regarded as Powerco owned for disclosure purposes. Assumptions have been made for operational distribution substations where installed capacity is not known.

Zone substation transformer capacity

Powerco owns transformers provided by various suppliers with ratings calculated at varying temperatures. The capacity reported in the information disclosure uses a standardised rating for continuous operation at 20°C.

Successive interruptions (Schedule 10)

As required by the exemption granted 17 May 2021 Powerco confirms that successive interruptions have been treated in the same way for the 2021 disclosure as they were for the 2020 disclosures.

Powerco's methodology for recognising successive interruptions is summarised below.

- If supply is cut for more than 1 minute SAIDI and SAIFI will apply
- If supply is restored for less than 1 minute it is a continuation of the initial interruption. SAIDI continues to apply and there isn't a new SAIFI
- If supply is restored for more than 1 minute but then fails again for greater than 1 minute SAIDI applies, and this event incurs a new SAIFI. There is a no SAIDI component whilst the power is on

Directors' Certificate



ELECTRICITY DISTRIBUTION SERVICES INFORMATION DISCLOSURE FOR THE YEAR ENDED 31 MARCH 2021

Certificate for year-end disclosures

Pursuant to clause 2.9.2 of section 2.9

We, ___John Loughlin______and ___Paul Callow______

being directors of Powerco 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 2012 in all material respects complies with that determination; and
- b) The historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10, and 14 has been properly extracted from the Powerco Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained.
- c) In respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that-

i. the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and

ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.



Director

Mally

Director

19 August 2021

19 August 2021

Date

Date

INDEPENDENT AUDITOR'S REPORT TO THE DIRECTORS OF POWERCO LIMITED AND THE COMMERCE COMMISSION

Report on the Disclosure Information prepared in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated April 2018)

We have conducted a reasonable assurance engagement on whether the information disclosed by Powerco Limited (the 'Company') required to be disclosed in accordance with the Electricity Information Disclosure Determination 2012 (consolidated April 2018) as amended by the Information Disclosure exemption: Disclosure and auditing of reliability information within Schedule 10, issued by the Commerce Commission on 17 May 2021 ('the Determination') for the disclosure year ended 31 March 2021, has been prepared in all material respects, in accordance with the Determination.

The information required to be reported by the Company, under the Determination is in Schedule 1 to 4, 5a to 5g, 6a and 6b, 7, 10, and the explanatory notes in boxes 1 to 11 of Schedule 14 ('the Disclosure Information').

Further, we have conducted a reasonable assurance engagement on whether the Company's basis for valuation of related party transactions ('the Related Party Transaction Information') for the disclosure year ended 31 March 2021, has been prepared, in all material respects, in accordance with clauses 2.3.6 and 2.3.8 of the Determination, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated May 2020) ('the Input Methodologies Determination').

Opinion

This opinion has been formed on the basis of, and is subject to, the inherent limitations outlined elsewhere in this independent assurance report.

In our opinion:

- The Company has complied, in all material respects, with the Determination in preparing the Disclosure Information;
- The Related Party Transaction Information complies, in all material respects, with the Determination and the Input Methodologies Determination;
- As far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information and the Related Party Transaction information have been kept by the Company; and
- As far as appears from an examination of the records, the information used in the preparation of the Disclosure Information and the Related Party Transaction 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.

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 (Revised): *Compliance Engagements* issued by the New Zealand Auditing and Assurance Standards 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, with the Determination, and about whether the Related Party Transaction Information has been

the information disclosure Schedule 4.

input factor is applied against the proportion of asset replacement and

renewals in commissioned assets.

estimate.

The provision is calculated using an input

This is a key assurance matter due to the

quantum of the balance and the level of judgement required in determining the

assumption based on historical trends. The

prepared, in all material respects, with the Determination and the Input Methodologies Determination. Reasonable assurance is a high level of assurance.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

Key assurance matters

Key assurance matter are those matters that, in our professional judgement, were of most significance in our assurance procedures of the Disclosure Information. These matters were addressed in the context of our audit of the Disclosure Information, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

| Key assurance matter | How our procedures addressed the key assurance matter | | | | |
|---|--|--|--|--|--|
| Capital expenditure and assets commissioned into the regulatory asset base ('RAB') | | | | | |
| The Company carries out a large number of individual network system projects that can be either operational (network maintenance) or capital (asset replacement or network growth) in nature. Capital expenditure in the current year was \$216 million and commissioned assets in to the RAB of \$184 million, compared to network operating expenditure of \$91 | Our procedures on capital expenditure and commissioned assets into the RAB included the following: Assessing the Company's capitalisation policy was in line with NZ IAS 16 – <i>Property, plant and equipment</i>, NZ IFRS 16 – Leases and NZ IAS 38 – <i>Intangible assets</i>; Evaluating the design and implementation of controls over the classification of network expenditure; | | | | |
| million. Capital expenditure and assets commissioned into the RAB are a key assurance matter due to the significant judgment pertaining to the assessment of whether the capital expenditure and assets commissioned meet the definition under the Determination. | Examining a sample of capital expenditure and assets included in the RAB to invoice(s) or other supporting information to determine whether the expenditure met the capitalisation criteria in the Determination; and Comparing the assets commissioned into the RAB to those commissioned for financial statement purposes and investigating any significant variances. | | | | |
| Valuation of the provision for asset disposal | 5 | | | | |
| As detailed in Schedule 14 and Schedule 15, the Company included a provision for assets disposals amounting to \$40 million in the regulatory asset base disclosed in | Our procedures on management's estimation of the provision for asset disposals included the following: • Evaluating the design and implementation of key controls | | | | |

- over the disposals provision;
- Assessing key assumptions against internal information such as disposals and capitalisation history;
- Assessing changes in assumptions and methodologies from prior periods;
- Testing the arithmetical accuracy of the calculation; and
- Evaluating the sensitivity of the calculation to changes in the key variables and assumptions.

Key assurance matter

How our procedures addressed the key assurance matter

Completeness and accuracy of System Average Interruption Duration Index ('SAIDI') and System Average Interruption Frequency Index ('SAIFI')

The Determination defines certain quality measures in relation to the number of interruptions, faults, cause of faults and the average SAIDI and SAIFI values.

SAIFI and SAIDI is calculated using aggregate faults and interruptions information for the period through prescribed formulas and requirements per Attachment B of the Determination.

The completeness and accuracy of SAIDI and SAIFI is a key assurance matter due to the reliance on manual switching sheets to inform the data entry of interruption information for a large volume of faults.

Additionally, the SAIDI and SAIFI calculation is subject to manual adjustments processed to normalise the calculation. Our procedures on the completeness and accuracy of SAIDI and SAIFI included the following:

- Obtaining a robust understanding of the Company's methods for recording electricity outages and their duration;
- Evaluating the design and implementation of key controls related to the recording and the reviewing of outage data;
- Utilising media searches to assess whether there are major events omitted from the outages recorded;
- On a sample basis, we selected faults recorded on the outage database and traced the number of customers, number of minutes, the class type and fault cause to the information recorded on the outage listing;
- On a sample basis, we selected faults recorded on the switching sheets and traced the number of customers, number of minutes, the class type and fault cause to the information recorded in the system and the information recorded on the outage listing;
- Where a manual adjustment is processed, for planned or unplanned, we have, on a sample basis, obtained supporting information for the adjustment;
- Recalculating the normalised SAIDI and SAIFI according to the methodology of the Determination; and
- Reviewing the disclosures in Schedule 15 in respect of the treatment of successive interruptions.

Responsibilities of the Board of Directors for the Disclosure Information and Related Party Transaction Information

The Board of Directors is responsible on behalf of the Company for the preparation of the Disclosure Information and Related Party Transaction Information in accordance with the Determination. The responsibility includes the design, implementation and maintenance of internal control relevant to the Company's preparation of the Disclosure Information and the Related Party Transaction Information with the Determination.

Our Independence and Quality Control

We have complied with the independence and other ethical requirements of Professional and Ethical Standard 1 International Code of Ethics for Assurance Practitioners (including International Independence Standards) (New Zealand) ('PES-1') issued by the New Zealand Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Other than in our capacity as auditor and the provision of other assurance services including the audit of financial statements, the audit of regulatory disclosure statements, greenhouse gas assurance and project quality assurance, we have no relationship with or interests in the Company or any of its subsidiaries. These services have not impaired our independence as auditor of the Company as required by the Determination.

The firm applies Professional and Ethical Standard 3 (Amended): *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* issued by the New Zealand Auditing and Assurance Standards Board, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our responsibility for the audit of the Disclosure Information and the Related Party Transaction Information

Our responsibility is to express an opinion whether the Disclosure Information and the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Determination and the Input Methodologies Determination. ISAE 3000 (Revised) and SAE 3100 (Revised) require that we plan and perform our procedures to obtain reasonable assurance that the Company has complied, in all material respects, with the Determination and the Input Methodologies Determination in relation to the preparation of the Disclosure Information and the Related Party Transaction Information.

An assurance engagement to report on the Company's preparation of the Disclosure Information and the Related Party Transaction Information in accordance with the Determination and the Input Methodologies Determination involves performing procedures to obtain evidence about the compliance activity and controls implemented to meet the requirements of the Determination and the Input Methodologies Determination. The procedures selected depend on our judgement, including the identification and assessment of risk of material non-compliance with the Determination and the Input Methodologies Determination.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information and the basis of valuation in the Related Party Transaction Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information and Related Party Transaction Information, whether due to fraud or error or non-compliance with the Determination or the Input Methodologies Determination. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Disclosure Information and Related Party Transaction 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.

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 or the Related Party Transaction Information nor do we guarantee complete accuracy of the Disclosure Information or the Related Party Transaction Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information or the Related Party Transaction Information.

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



Use of Report

This independent assurance report has been prepared solely for the directors of the Company and 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, and about whether the Related Party Transaction Information has been prepared in all material respects with the Determination and the Input Methodologies 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 Limited

Auckland, New Zealand 19 August 2021