



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

| | |
|------------------------------|---|
| Company Name | <input type="text" value="Waipa Networks Limited"/> |
| Disclosure Date | <input type="text" value="30 October 2020"/> |
| Disclosure Year (year ended) | <input type="text" value="31 March 2020"/> |

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

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| | |
|----------------|------------------------|
| Company Name | Waipa Networks Limited |
| For Year Ended | 31 March 2020 |

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.

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| | | | | | |
|----|--|--|---|--|--|
| 7 | 1(i): Expenditure metrics | | | | |
| 8 | | | | | |
| 9 | | 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 MVA of capacity from EDB-owned distribution transformers (\$/MVA) |
| 10 | Operational expenditure | 21,284 | 306 | 115,853 | 3,669 |
| 11 | Network | 10,485 | 151 | 57,070 | 1,807 |
| 12 | Non-network | 10,799 | 155 | 58,783 | 1,861 |
| 13 | Expenditure on assets | 32,120 | 461 | 174,835 | 5,536 |
| 14 | Network | 30,642 | 440 | 166,788 | 5,282 |
| 15 | Non-network | 1,478 | 21 | 8,047 | 255 |
| 16 | | | | | |
| 17 | 1(ii): Revenue metrics | | | | |
| 18 | | | | | |
| 19 | | Revenue per GWh energy delivered to ICPs (\$/GWh) | Revenue per average no. of ICPs (\$/ICP) | | |
| 20 | Total consumer line charge revenue | 68,895 | 990 | | |
| 21 | Standard consumer line charge revenue | 78,842 | 942 | | |
| 22 | Non-standard consumer line charge revenue | 19,580 | 642,371 | | |
| 23 | 1(iii): Service intensity measures | | | | |
| 24 | | | | | |
| 25 | Demand density | 32 | | | Maximum coincident system demand per km of circuit length (for supply) (kW/km) |
| 26 | Volume density | 172 | | | Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km) |
| 27 | Connection point density | 12 | | | Average number of ICPs per km of circuit length (for supply) (ICPs/km) |
| 28 | Energy intensity | 14,364 | | | Total energy delivered to ICPs per average number of ICPs (kWh/ICP) |
| 29 | | | | | |
| 30 | 1(iv): Composition of regulatory income | | | | |
| 31 | | | | | |
| 32 | | | (\$000) | % of revenue | |
| 33 | Operational expenditure | | 8,321 | 30.94% | |
| 34 | Pass-through and recoverable costs excluding financial incentives and wash-ups | | 8,790 | 32.68% | |
| 35 | Total depreciation | | 4,135 | 15.37% | |
| 36 | Total revaluations | | 2,888 | 10.74% | |
| 37 | Regulatory tax allowance | | 2,108 | 7.84% | |
| 38 | Regulatory profit/(loss) including financial incentives and wash-ups | | 6,429 | 23.90% | |
| 39 | Total regulatory income | | 26,894 | | |
| 40 | 1(v): Reliability | | | | |
| 41 | | | | | |
| 42 | Interruption rate | | 14.99 | | Interruptions per 100 circuit km |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

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| 2(i): Return on Investment | | CY-2 | CY-1 | Current Year CY |
|----------------------------|---|-----------|-----------|-----------------|
| | | 31 Mar 18 | 31 Mar 19 | 31 Mar 20 |
| | | % | % | % |
| 7 | ROI – comparable to a post tax WACC | | | |
| 8 | | | | |
| 9 | Reflecting all revenue earned | 4.94% | 4.46% | 5.27% |
| 10 | Excluding revenue earned from financial incentives | 4.94% | 4.46% | 5.27% |
| 11 | Excluding revenue earned from financial incentives and wash-ups | 4.94% | 4.46% | 5.27% |
| 12 | | | | |
| 13 | | | | |
| 14 | Mid-point estimate of post tax WACC | 5.04% | 4.75% | 4.27% |
| 15 | 25th percentile estimate | 4.36% | 4.07% | 3.59% |
| 16 | 75th percentile estimate | 5.72% | 5.43% | 4.95% |
| 17 | | | | |
| 18 | | | | |
| 19 | ROI – comparable to a vanilla WACC | | | |
| 20 | Reflecting all revenue earned | 5.54% | 4.97% | 5.69% |
| 21 | Excluding revenue earned from financial incentives | 5.54% | 4.97% | 5.69% |
| 22 | Excluding revenue earned from financial incentives and wash-ups | 5.54% | 4.97% | 5.69% |
| 23 | | | | |
| 24 | WACC rate used to set regulatory price path | | | |
| 25 | | | | |
| 26 | Mid-point estimate of vanilla WACC | 5.60% | 5.26% | 4.69% |
| 27 | 25th percentile estimate | 4.92% | 4.58% | 4.01% |
| 28 | 75th percentile estimate | 6.29% | 5.94% | 5.37% |
| 29 | | | | |
| 30 | 2(ii): Information Supporting the ROI | | | |
| 31 | | | | |
| 32 | Total opening RAB value | 114,175 | | |
| 33 | plus Opening deferred tax | (4,759) | | |
| 34 | Opening RIV | | 109,416 | |
| 35 | | | | |
| 36 | Line charge revenue | | 26,935 | |
| 37 | | | | |
| 38 | Expenses cash outflow | 17,111 | | |
| 39 | add Assets commissioned | 10,620 | | |
| 40 | less Asset disposals | 143 | | |
| 41 | add Tax payments | 1,430 | | |
| 42 | less Other regulated income | (41) | | |
| 43 | Mid-year net cash outflows | | 29,058 | |
| 44 | | | | |
| 45 | Term credit spread differential allowance | | – | |
| 46 | | | | |
| 47 | Total closing RAB value | 123,478 | | |
| 48 | less Adjustment resulting from asset allocation | 71 | | |
| 49 | less Lost and found assets adjustment | – | | |
| 50 | plus Closing deferred tax | (5,438) | | |
| 51 | Closing RIV | | 117,969 | |
| 52 | | | | |
| 53 | ROI – comparable to a vanilla WACC | | | 5.69% |
| 54 | | | | |
| 55 | Leverage (%) | | | 42% |
| 56 | Cost of debt assumption (%) | | | 3.61% |
| 57 | Corporate tax rate (%) | | | 28% |
| 58 | | | | |
| 59 | ROI – comparable to a post tax WACC | | | 5.27% |
| 60 | | | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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2(iii): Information Supporting the Monthly ROI

| | | | | | | | | |
|----|---|---------------------|-----------------------|---------------------|-----------------|------------------------|---------------------------|-----|
| 61 | | | | | | | | |
| 62 | | | | | | | | |
| 63 | Opening RIV | | | | | | | N/A |
| 64 | | | | | | | | |
| 65 | | | | | | | | |
| 66 | | Line charge revenue | Expenses cash outflow | Assets commissioned | Asset disposals | Other regulated income | Monthly net cash outflows | |
| 67 | April | | | | | | | - |
| 68 | May | | | | | | | - |
| 69 | June | | | | | | | - |
| 70 | July | | | | | | | - |
| 71 | August | | | | | | | - |
| 72 | September | | | | | | | - |
| 73 | October | | | | | | | - |
| 74 | November | | | | | | | - |
| 75 | December | | | | | | | - |
| 76 | January | | | | | | | - |
| 77 | February | | | | | | | - |
| 78 | March | | | | | | | - |
| 79 | Total | - | - | - | - | - | - | - |
| 80 | | | | | | | | |
| 81 | Tax payments | | | | | | | N/A |
| 82 | | | | | | | | |
| 83 | Term credit spread differential allowance | | | | | | | N/A |
| 84 | | | | | | | | |
| 85 | Closing RIV | | | | | | | N/A |
| 86 | | | | | | | | |
| 87 | | | | | | | | |
| 88 | Monthly ROI – comparable to a vanilla WACC | | | | | | | N/A |
| 89 | | | | | | | | |
| 90 | Monthly ROI – comparable to a post tax WACC | | | | | | | N/A |
| 91 | | | | | | | | |

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

| | | | |
|----|---|--|-------|
| 92 | | | |
| 93 | | | |
| 94 | Year-end ROI – comparable to a vanilla WACC | | 5.60% |
| 95 | | | |
| 96 | Year-end ROI – comparable to a post tax WACC | | 5.18% |
| 97 | | | |
| 98 | * these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI. | | |
| 99 | | | |

2(v): Financial Incentives and Wash-Ups

| | | | |
|-----|--|--|---|
| 100 | | | |
| 101 | | | |
| 102 | Net recoverable costs allowed under incremental rolling incentive scheme | | - |
| 103 | Purchased assets – avoided transmission charge | | |
| 104 | Energy efficiency and demand incentive allowance | | |
| 105 | Quality incentive adjustment | | |
| 106 | Other financial incentives | | |
| 107 | Financial incentives | | - |
| 108 | | | |
| 109 | Impact of financial incentives on ROI | | - |
| 110 | | | |
| 111 | Input methodology claw-back | | |
| 112 | CPP application recoverable costs | | |
| 113 | Catastrophic event allowance | | |
| 114 | Capex wash-up adjustment | | |
| 115 | Transmission asset wash-up adjustment | | |
| 116 | 2013–15 NPV wash-up allowance | | |
| 117 | Reconsideration event allowance | | |
| 118 | Other wash-ups | | |
| 119 | Wash-up costs | | - |
| 120 | | | |
| 121 | Impact of wash-up costs on ROI | | - |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

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| sch ref | | (\$000) |
|---------|--|---------------|
| 7 | 3(i): Regulatory Profit | |
| 8 | Income | |
| 9 | Line charge revenue | 26,935 |
| 10 | plus Gains / (losses) on asset disposals | (143) |
| 11 | plus Other regulated income (other than gains / (losses) on asset disposals) | 102 |
| 12 | | |
| 13 | Total regulatory income | 26,894 |
| 14 | Expenses | |
| 15 | less Operational expenditure | 8,321 |
| 16 | | |
| 17 | less Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,790 |
| 18 | | |
| 19 | Operating surplus / (deficit) | 9,784 |
| 20 | | |
| 21 | less Total depreciation | 4,135 |
| 22 | | |
| 23 | plus Total revaluations | 2,888 |
| 24 | | |
| 25 | Regulatory profit / (loss) before tax | 8,537 |
| 26 | | |
| 27 | less Term credit spread differential allowance | - |
| 28 | | |
| 29 | less Regulatory tax allowance | 2,108 |
| 30 | | |
| 31 | Regulatory profit/(loss) including financial incentives and wash-ups | 6,429 |
| 32 | | |
| 33 | 3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups | (\$000) |
| 34 | Pass through costs | |
| 35 | Rates | 79 |
| 36 | Commerce Act levies | 19 |
| 37 | Industry levies | 76 |
| 38 | CPP specified pass through costs | |
| 39 | Recoverable costs excluding financial incentives and wash-ups | |
| 40 | Electricity lines service charge payable to Transpower | 8,031 |
| 41 | Transpower new investment contract charges | 585 |
| 42 | System operator services | |
| 43 | Distributed generation allowance | |
| 44 | Extended reserves allowance | |
| 45 | Other recoverable costs excluding financial incentives and wash-ups | |
| 46 | Pass-through and recoverable costs excluding financial incentives and wash-ups | 8,790 |
| 47 | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

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| | | (\$000) | |
|----|---|------------------------------------|---|
| | | CY-1 | CY |
| | | 31 Mar 19 | 31 Mar 20 |
| 48 | 3(iii): Incremental Rolling Incentive Scheme | | |
| 49 | | | |
| 50 | | | |
| 51 | Allowed controllable opex | | |
| 52 | Actual controllable opex | | |
| 53 | | | |
| 54 | Incremental change in year | | |
| 55 | | | |
| | | Previous years' incremental change | Previous years' incremental change adjusted for inflation |
| 56 | | | |
| 57 | CY-5 31 Mar 15 | | |
| 58 | CY-4 31 Mar 16 | | |
| 59 | CY-3 31 Mar 17 | | |
| 60 | CY-2 31 Mar 18 | | |
| 61 | CY-1 31 Mar 19 | | |
| 62 | Net incremental rolling incentive scheme | | - |
| 63 | | | |
| 64 | Net recoverable costs allowed under incremental rolling incentive scheme | | - |
| 65 | 3(iv): Merger and Acquisition Expenditure | | |
| 70 | | | (\$000) |
| 66 | Merger and acquisition expenditure | | |
| 67 | | | |
| 68 | <i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i> | | |
| 69 | 3(v): Other Disclosures | | |
| 70 | | | (\$000) |
| 71 | Self-insurance allowance | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

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

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

| | for year ended | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | RAB 31 Mar 16 (\$000) | RAB 31 Mar 17 (\$000) | RAB 31 Mar 18 (\$000) | RAB 31 Mar 19 (\$000) | RAB 31 Mar 20 (\$000) |
| Total opening RAB value | 91,209 | 91,746 | 112,541 | 113,558 | 114,175 |
| less Total depreciation | 3,430 | 3,507 | 3,907 | 4,017 | 4,135 |
| plus Total revaluations | 534 | 1,983 | 1,236 | 1,680 | 2,888 |
| plus Assets commissioned | 3,622 | 22,504 | 3,865 | 3,238 | 10,620 |
| less Asset disposals | 188 | 185 | 177 | 284 | 143 |
| plus Lost and found assets adjustment | (0) | - | - | - | - |
| plus Adjustment resulting from asset allocation | - | - | - | (0) | 71 |
| Total closing RAB value | 91,746 | 112,541 | 113,558 | 114,175 | 123,478 |

4(ii): Unallocated Regulatory Asset Base

| | Unallocated RAB * | | RAB | |
|---|-------------------|----------------|---------|----------------|
| | (\$000) | (\$000) | (\$000) | (\$000) |
| Total opening RAB value | | 118,373 | | 114,175 |
| less Total depreciation | | 4,395 | | 4,135 |
| plus Total revaluations | | 2,995 | | 2,888 |
| plus Assets commissioned (other than below) | 575 | | 575 | |
| Assets acquired from a regulated supplier | - | | - | |
| Assets acquired from a related party | 10,045 | | 10,045 | |
| Assets commissioned | | 10,620 | | 10,620 |
| less Asset disposals (other than below) | 143 | | 143 | |
| Asset disposals to a regulated supplier | - | | - | |
| Asset disposals to a related party | - | | - | |
| Asset disposals | | 143 | | 143 |
| plus Lost and found assets adjustment | | - | | |
| plus Adjustment resulting from asset allocation | | | | 71 |
| Total closing RAB value | | 127,450 | | 123,478 |

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

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

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

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

| | |
|----------------------|-------|
| CPI _t | 1,052 |
| CPI _{t-4} | 1,026 |
| Revaluation rate (%) | 2.53% |

| | Unallocated RAB * | | RAB | |
|--|-------------------|---------|---------|---------|
| | (\$000) | (\$000) | (\$000) | (\$000) |
| Total opening RAB value | 118,373 | | 114,175 | |
| <i>less</i> Opening value of fully depreciated, disposed and lost assets | 195 | | 195 | |
| Total opening RAB value subject to revaluation | 118,178 | | 113,980 | |
| Total revaluations | | 2,995 | | 2,888 |

4(iv): Roll Forward of Works Under Construction

| | Unallocated works under construction | | Allocated works under construction | |
|---|--------------------------------------|-------|------------------------------------|-------|
| Works under construction—preceding disclosure year | | 1,551 | | 1,551 |
| <i>plus</i> Capital expenditure | 10,095 | | 10,095 | |
| <i>less</i> Assets commissioned | 10,620 | | 10,620 | |
| <i>plus</i> Adjustment resulting from asset allocation | | | | |
| Works under construction - current disclosure year | | 1,026 | | 1,026 |
| Highest rate of capitalised finance applied | | | | - |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

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

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

| | Unallocated RAB * | | RAB | |
|---|-------------------|---------|---------|---------|
| | (\$000) | (\$000) | (\$000) | (\$000) |
| 79 Depreciation - standard | 3,840 | | 3,840 | |
| 80 Depreciation - no standard life assets | 555 | | 295 | |
| 81 Depreciation - modified life assets | | | | |
| 82 Depreciation - alternative depreciation in accordance with CPP | | | | |
| 83 Total depreciation | | 4,395 | | 4,135 |

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

(\$000 unless otherwise specified)

| Asset or assets with changes to depreciation* | Reason for non-standard depreciation (text entry) | Depreciation charge for the period (RAB) | Closing RAB value under 'non-standard' depreciation | Closing RAB value under 'standard' depreciation |
|---|---|--|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

* include additional rows if needed

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

(\$000 unless otherwise specified)

| | Subtransmission lines | Subtransmission cables | Zone substations | Distribution and LV lines | Distribution and LV cables | Distribution substations and transformers | Distribution switchgear | Other network assets | Non-network assets | Total |
|---|-----------------------|------------------------|------------------|---------------------------|----------------------------|---|-------------------------|----------------------|--------------------|---------|
| 99 Total opening RAB value | 18,510 | - | - | 28,018 | 19,834 | 27,628 | 14,158 | 4,074 | 1,951 | 114,174 |
| 100 less Total depreciation | 257 | - | - | 1,150 | 678 | 926 | 547 | 282 | 295 | 4,135 |
| 101 plus Total revaluations | 469 | - | - | 710 | 502 | 696 | 359 | 103 | 49 | 2,888 |
| 102 plus Assets commissioned | 70 | - | - | 986 | 3,790 | 1,593 | 2,548 | 1,129 | 578 | 10,693 |
| 103 less Asset disposals | - | - | - | - | - | 143 | - | - | 0 | 143 |
| 104 plus Lost and found assets adjustment | - | - | - | - | - | - | - | - | - | - |
| 105 plus Adjustment resulting from asset allocation | - | - | - | - | - | - | - | - | - | - |
| 106 plus Asset category transfers | - | - | - | - | - | - | - | - | - | - |
| 107 Total closing RAB value | 18,792 | - | - | 28,564 | 23,448 | 28,848 | 16,517 | 5,024 | 2,283 | 123,478 |
| 109 Asset Life | | | | | | | | | | |
| 110 Weighted average remaining asset life | 52.1 | - | - | 28.1 | 27.6 | 26.6 | 21.5 | 20.0 | 16.9 | (years) |
| 111 Weighted average expected total asset life | 55.0 | - | - | 59.9 | 45.1 | 44.1 | 37.6 | 40.0 | 56.5 | (years) |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

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

sch ref

| | | (\$000) | |
|----|--|---------|--------------|
| 7 | 5a(i): Regulatory Tax Allowance | | |
| 8 | Regulatory profit / (loss) before tax | | 8,537 |
| 9 | | | |
| 10 | <i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable | 1,654 | * |
| 11 | Expenditure or loss in regulatory profit / (loss) before tax but not deductible | | * |
| 12 | Amortisation of initial differences in asset values | 1,601 | |
| 13 | Amortisation of revaluations | 708 | |
| 14 | | | 3,963 |
| 15 | | | |
| 16 | <i>less</i> Total revaluations | 2,888 | |
| 17 | Income included in regulatory profit / (loss) before tax but not taxable | | * |
| 18 | Discretionary discounts and customer rebates | 453 | |
| 19 | Expenditure or loss deductible but not in regulatory profit / (loss) before tax | | * |
| 20 | Notional deductible interest | 1,630 | |
| 21 | | | 4,971 |
| 22 | | | |
| 23 | Regulatory taxable income | | 7,530 |
| 24 | | | |
| 25 | <i>less</i> Utilised tax losses | | |
| 26 | Regulatory net taxable income | | 7,530 |
| 27 | | | |
| 28 | Corporate tax rate (%) | 28% | |
| 29 | Regulatory tax allowance | | 2,108 |

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

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

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

(\$000)

| | | | |
|----|---|--------|--------|
| 36 | Opening unamortised initial differences in asset values | 41,619 | |
| 37 | <i>less</i> Amortisation of initial differences in asset values | 1,601 | |
| 38 | <i>plus</i> Adjustment for unamortised initial differences in assets acquired | | |
| 39 | <i>less</i> Adjustment for unamortised initial differences in assets disposed | | |
| 40 | Closing unamortised initial differences in asset values | | 40,018 |
| 41 | | | |
| 42 | Opening weighted average remaining useful life of relevant assets (years) | | 26 |
| 43 | | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 130.

sch ref

| | | | |
|----|--|---------|---------|
| 44 | 5a(iv): Amortisation of Revaluations | | (\$000) |
| 45 | | | |
| 46 | Opening sum of RAB values without revaluations | 103,801 | |
| 47 | | | |
| 48 | Adjusted depreciation | 3,427 | |
| 49 | Total depreciation | 4,135 | |
| 50 | Amortisation of revaluations | | 708 |
| 51 | | | |
| 52 | 5a(v): Reconciliation of Tax Losses | | (\$000) |
| 53 | | | |
| 54 | Opening tax losses | | |
| 55 | plus Current period tax losses | | |
| 56 | less Utilised tax losses | | |
| 57 | Closing tax losses | | - |
| 58 | 5a(vi): Calculation of Deferred Tax Balance | | (\$000) |
| 59 | | | |
| 60 | Opening deferred tax | (4,759) | |
| 61 | | | |
| 62 | plus Tax effect of adjusted depreciation | 959 | |
| 63 | | | |
| 64 | less Tax effect of tax depreciation | 1,230 | |
| 65 | | | |
| 66 | plus Tax effect of other temporary differences* | 23 | |
| 67 | | | |
| 68 | less Tax effect of amortisation of initial differences in asset values | 448 | |
| 69 | | | |
| 70 | plus Deferred tax balance relating to assets acquired in the disclosure year | | |
| 71 | | | |
| 72 | less Deferred tax balance relating to assets disposed in the disclosure year | (37) | |
| 73 | | | |
| 74 | plus Deferred tax cost allocation adjustment | (20) | |
| 75 | | | |
| 76 | Closing deferred tax | | (5,438) |
| 77 | | | |
| 78 | 5a(vii): Disclosure of Temporary Differences | | |
| 79 | <i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i> | | |
| 80 | | | |
| 81 | 5a(viii): Regulatory Tax Asset Base Roll-Forward | | |
| 82 | | | (\$000) |
| 83 | Opening sum of regulatory tax asset values | 45,437 | |
| 84 | less Tax depreciation | 4,393 | |
| 85 | plus Regulatory tax asset value of assets commissioned | 6,284 | |
| 86 | less Regulatory tax asset value of asset disposals | 10 | |
| 87 | plus Lost and found assets adjustment | | |
| 88 | plus Adjustment resulting from asset allocation | | |
| 89 | plus Other adjustments to the RAB tax value | | |
| 90 | Closing sum of regulatory tax asset values | | 47,318 |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination. This 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 by clause 2.8.

sch ref

| 5b(i): Summary—Related Party Transactions | | (\$000) | (\$000) |
|--|---|----------------|----------------|
| 7 | Total regulatory income | | |
| 8 | | | |
| 9 | | | |
| 10 | Market value of asset disposals | | |
| 11 | | | |
| 12 | Service interruptions and emergencies | 1,203 | |
| 13 | Vegetation management | 924 | |
| 14 | Routine and corrective maintenance and inspection | 1,311 | |
| 15 | Asset replacement and renewal (opex) | 647 | |
| 16 | Network opex | | 4,085 |
| 17 | Business support | – | |
| 18 | System operations and network support | 520 | |
| 19 | Operational expenditure | | 4,605 |
| 20 | Consumer connection | 4,943 | |
| 21 | System growth | 1,393 | |
| 22 | Asset replacement and renewal (capex) | 2,526 | |
| 23 | Asset relocations | 34 | |
| 24 | Quality of supply | 831 | |
| 25 | Legislative and regulatory | – | |
| 26 | Other reliability, safety and environment | 387 | |
| 27 | Expenditure on non-network assets | | – |
| 28 | Expenditure on assets | | 10,115 |
| 29 | Cost of financing | | |
| 30 | Value of capital contributions | | 1,027 |
| 31 | Value of vested assets | | |
| 32 | Capital Expenditure | | 9,087 |
| 33 | Total expenditure | | 13,692 |
| 34 | | | |
| 35 | Other related party transactions | | |

| 5b(iii): Total Opex and Capex Related Party Transactions | | | Total value of transactions (\$000) |
|---|--|---|--|
| Name of related party | Nature of opex or capex service provided | | |
| 38 | Waikato Tree Services | Vegetation management | 924 |
| 39 | Waipa Networks - Contracting | Service interruptions and emergencies | 1,203 |
| 40 | Waipa Networks - Contracting | Routine and corrective maintenance and inspection | 1,311 |
| 41 | Waipa Networks - Contracting | Asset replacement and renewal (opex) | 647 |
| 42 | Waipa Networks - Contracting | System operations and network support | 520 |
| 43 | Waipa Networks - Contracting | Consumer connection | 4,943 |
| 44 | Waipa Networks - Contracting | System growth | 1,393 |
| 45 | Waipa Networks - Contracting | Asset replacement and renewal (capex) | 2,526 |
| 46 | Waipa Networks - Contracting | Asset relocations | 34 |
| 47 | Waipa Networks - Contracting | Quality of supply | 831 |
| 48 | Waipa Networks - Contracting | Legislative and regulatory | |
| 49 | Waipa Networks - Contracting | Other reliability, safety and environment | 387 |
| 50 | | [Select one] | |
| 51 | | [Select one] | |
| 52 | | [Select one] | |
| 53 | Total value of related party transactions | | 14,720 |

* include additional rows if needed

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

| Issuing party | Issue date | Pricing date | Original tenor (in years) | Coupon rate (%) | Book value at issue date (NZD) | Book value at date of financial statements (NZD) | Term Credit Spread Difference | Debt issue cost readjustment |
|-------------------------------------|------------|--------------|---------------------------|-----------------|--------------------------------|--|-------------------------------|------------------------------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| * include additional rows if needed | | | | | | - | - | - |

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

| | | | | | |
|--|--|--|-----|--|---|
| Gross term credit spread differential | | | | | - |
| Total book value of interest bearing debt | | | | | |
| Leverage | | | 42% | | |
| Average opening and closing RAB values | | | | | |
| Attribution Rate (%) | | | | | - |
| Term credit spread differential allowance | | | | | - |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

| | | Value allocated (\$000s) | | | | |
|----|--|--------------------------|-----------------------------------|---------------------------------------|-------|-------------------------------------|
| | | Arm's length deduction | Electricity distribution services | Non-electricity distribution services | Total | OVABAA allocation increase (\$000s) |
| 7 | 5d(i): Operating Cost Allocations | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | Service interruptions and emergencies | | | | | |
| 11 | Directly attributable | | 1,203 | | | |
| 12 | Not directly attributable | | | | - | |
| 13 | Total attributable to regulated service | | 1,203 | | | |
| 14 | Vegetation management | | | | | |
| 15 | Directly attributable | | 924 | | | |
| 16 | Not directly attributable | | | | - | |
| 17 | Total attributable to regulated service | | 924 | | | |
| 18 | Routine and corrective maintenance and inspection | | | | | |
| 19 | Directly attributable | | 1,325 | | | |
| 20 | Not directly attributable | | | | - | |
| 21 | Total attributable to regulated service | | 1,325 | | | |
| 22 | Asset replacement and renewal | | | | | |
| 23 | Directly attributable | | 647 | | | |
| 24 | Not directly attributable | | | | - | |
| 25 | Total attributable to regulated service | | 647 | | | |
| 26 | System operations and network support | | | | | |
| 27 | Directly attributable | | 1,855 | | | |
| 28 | Not directly attributable | | 117 | 273 | 390 | |
| 29 | Total attributable to regulated service | | 1,972 | | | |
| 30 | Business support | | | | | |
| 31 | Directly attributable | | 262 | | | |
| 32 | Not directly attributable | | 1,988 | 427 | 2,415 | |
| 33 | Total attributable to regulated service | | 2,250 | | | |
| 34 | | | | | | |
| 35 | Operating costs directly attributable | | 6,216 | | | |
| 36 | Operating costs not directly attributable | - | 2,105 | 700 | 2,805 | - |
| 37 | Operational expenditure | | 8,321 | | | |
| 38 | | | | | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

39 **5d(ii): Other Cost Allocations**

| | | (\$000) |
|----|--|---------|
| 40 | Pass through and recoverable costs | |
| 41 | Pass through costs | |
| 42 | Directly attributable | 174 |
| 43 | Not directly attributable | |
| 44 | Total attributable to regulated service | 174 |
| 45 | Recoverable costs | |
| 46 | Directly attributable | 8,615 |
| 47 | Not directly attributable | |
| 48 | Total attributable to regulated service | 8,615 |

50 **5d(iii): Changes in Cost Allocations* †**

| | | (\$000) | |
|----|------------------------------------|---------|-------------------|
| | | CY-1 | Current Year (CY) |
| 51 | Change in cost allocation 1 | | |
| 52 | Cost category | | |
| 53 | Original allocator or line items | | |
| 54 | New allocator or line items | | |
| 55 | | - | - |
| 56 | | | |
| 57 | Rationale for change | | |

| | | (\$000) | |
|----|------------------------------------|---------|-------------------|
| | | CY-1 | Current Year (CY) |
| 61 | Change in cost allocation 2 | | |
| 62 | Cost category | | |
| 63 | Original allocator or line items | | |
| 64 | New allocator or line items | | |
| 65 | | - | - |
| 66 | | | |
| 67 | Rationale for change | | |

| | | (\$000) | |
|----|------------------------------------|---------|-------------------|
| | | CY-1 | Current Year (CY) |
| 70 | Change in cost allocation 3 | | |
| 71 | Cost category | | |
| 72 | Original allocator or line items | | |
| 73 | New allocator or line items | | |
| 74 | | - | - |
| 75 | | | |
| 76 | Rationale for change | | |

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

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

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5e(i): Regulated Service Asset Values

| | Value allocated (\$000s) |
|--|--------------------------|
| Electricity distribution services | |
| Subtransmission lines | |
| Directly attributable | 18,792 |
| Not directly attributable | |
| Total attributable to regulated service | 18,792 |
| Subtransmission cables | |
| Directly attributable | |
| Not directly attributable | |
| Total attributable to regulated service | - |
| Zone substations | |
| Directly attributable | |
| Not directly attributable | |
| Total attributable to regulated service | - |
| Distribution and LV lines | |
| Directly attributable | 28,564 |
| Not directly attributable | |
| Total attributable to regulated service | 28,564 |
| Distribution and LV cables | |
| Directly attributable | 23,448 |
| Not directly attributable | |
| Total attributable to regulated service | 23,448 |
| Distribution substations and transformers | |
| Directly attributable | 28,848 |
| Not directly attributable | |
| Total attributable to regulated service | 28,848 |
| Distribution switchgear | |
| Directly attributable | 16,517 |
| Not directly attributable | |
| Total attributable to regulated service | 16,517 |
| Other network assets | |
| Directly attributable | 5,024 |
| Not directly attributable | |
| Total attributable to regulated service | 5,024 |
| Non-network assets | |
| Directly attributable | 2,283 |
| Not directly attributable | |
| Total attributable to regulated service | 2,283 |
| Regulated service asset value directly attributable | 123,478 |
| Regulated service asset value not directly attributable | - |
| Total closing RAB value | 123,478 |

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

| | | | (\$000) | |
|---|--|---------------------|---------|-------------------|
| | | | CY-1 | Current Year (CY) |
| Change in asset value allocation 1 | | | | |
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | - | - |
| Rationale for change | | | | |
| Change in asset value allocation 2 | | | | |
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | - | - |
| Rationale for change | | | | |
| Change in asset value allocation 3 | | | | |
| Asset category | | Original allocation | | |
| Original allocator or line items | | New allocation | | |
| New allocator or line items | | Difference | - | - |
| Rationale for change | | | | |

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

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

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

sch ref

| | | | | |
|----|--|-------|----------------------|--------------------------------------|
| 7 | 6a(i): Expenditure on Assets | | (\$000) | (\$000) |
| 8 | Consumer connection | | | 5,747 |
| 9 | System growth | | | 2,840 |
| 10 | Asset replacement and renewal | | | 2,547 |
| 11 | Asset relocations | | | 136 |
| 12 | Reliability, safety and environment: | | | |
| 13 | Quality of supply | 309 | | |
| 14 | Legislative and regulatory | - | | |
| 15 | Other reliability, safety and environment | 400 | | |
| 16 | Total reliability, safety and environment | | | 709 |
| 17 | Expenditure on network assets | | | 11,979 |
| 18 | Expenditure on non-network assets | | | 578 |
| 19 | | | | |
| 20 | Expenditure on assets | | | 12,557 |
| 21 | plus Cost of financing | | | - |
| 22 | less Value of capital contributions | | | 2,463 |
| 23 | plus Value of vested assets | | | - |
| 24 | | | | |
| 25 | Capital expenditure | | | 10,095 |
| 26 | 6a(ii): Subcomponents of Expenditure on Assets (where known) | | | (\$000) |
| 27 | Energy efficiency and demand side management, reduction of energy losses | | | - |
| 28 | Overhead to underground conversion | | | 445 |
| 29 | Research and development | | | - |
| 30 | 6a(iii): Consumer Connection | | | |
| 31 | <i>Consumer types defined by EDB*</i> | | (\$000) | (\$000) |
| 32 | Residential | | 4,894 | |
| 33 | General | | 852 | |
| 34 | 11kV | | - | |
| 35 | | | | |
| 36 | | | | |
| 37 | <i>* include additional rows if needed</i> | | | |
| 38 | Consumer connection expenditure | | | 5,747 |
| 39 | | | | |
| 40 | less Capital contributions funding consumer connection expenditure | 1,045 | | |
| 41 | Consumer connection less capital contributions | | | 4,702 |
| 42 | 6a(iv): System Growth and Asset Replacement and Renewal | | | |
| 43 | | | System Growth | Asset Replacement and Renewal |
| 44 | | | (\$000) | (\$000) |
| 45 | Subtransmission | | - | - |
| 46 | Zone substations | | - | - |
| 47 | Distribution and LV lines | 1,136 | | 513 |
| 48 | Distribution and LV cables | 1,197 | | 291 |
| 49 | Distribution substations and transformers | 84 | | 1,035 |
| 50 | Distribution switchgear | 377 | | 708 |
| 51 | Other network assets | 46 | | - |
| 52 | System growth and asset replacement and renewal expenditure | | 2,840 | 2,547 |
| 53 | less Capital contributions funding system growth and asset replacement and renewal | 1,307 | | 41 |
| 54 | System growth and asset replacement and renewal less capital contributions | | 1,533 | 2,507 |
| 55 | | | | |
| 56 | 6a(v): Asset Relocations | | | |
| 57 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 58 | | | | |
| 59 | | | | |
| 60 | | | | |
| 61 | | | | |
| 62 | | | | |
| 63 | <i>* include additional rows if needed</i> | | | |
| 64 | All other projects or programmes - asset relocations | | 136 | |
| 65 | Asset relocations expenditure | | | 136 |
| 66 | less Capital contributions funding asset relocations | 65 | | |
| 67 | Asset relocations less capital contributions | | | 71 |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

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

sch ref

| | | | | |
|-----|--|--|---------|---------|
| 68 | | | | |
| 69 | 6a(vi): Quality of Supply | | | |
| 70 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 71 | Install 11kV Dropout fuses spurs & services | | 17 | |
| 72 | Disconnectors | | - | |
| 73 | Install remote control switches | | 52 | |
| 74 | Install TMU-HTI 110kV line | | 70 | |
| 75 | St Kilda Feeder reconfiguration | | 38 | |
| 76 | <i>* include additional rows if needed</i> | | | |
| 77 | All other projects programmes - quality of supply | | 132 | |
| 78 | Quality of supply expenditure | | | 309 |
| 79 | less Capital contributions funding quality of supply | | | |
| 80 | Quality of supply less capital contributions | | | 309 |
| 81 | 6a(vii): Legislative and Regulatory | | | |
| 82 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 83 | | | | |
| 84 | | | | |
| 85 | | | | |
| 86 | | | | |
| 87 | | | | |
| 88 | <i>* include additional rows if needed</i> | | | |
| 89 | All other projects or programmes - legislative and regulatory | | | |
| 90 | Legislative and regulatory expenditure | | | - |
| 91 | less Capital contributions funding legislative and regulatory | | | |
| 92 | Legislative and regulatory less capital contributions | | | - |
| 93 | 6a(viii): Other Reliability, Safety and Environment | | | |
| 94 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 95 | Replace two pole sub structure | | 8 | |
| 96 | | | | |
| 97 | | | | |
| 98 | | | | |
| 99 | | | | |
| 100 | <i>* include additional rows if needed</i> | | | |
| 101 | All other projects or programmes - other reliability, safety and environment | | 392 | |
| 102 | Other reliability, safety and environment expenditure | | | 400 |
| 103 | less Capital contributions funding other reliability, safety and environment | | 5 | |
| 104 | Other reliability, safety and environment less capital contributions | | | 394 |
| 105 | | | | |
| 106 | 6a(ix): Non-Network Assets | | | |
| 107 | Routine expenditure | | | |
| 108 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 109 | | | | |
| 110 | | | | |
| 111 | | | | |
| 112 | | | | |
| 113 | | | | |
| 114 | <i>* include additional rows if needed</i> | | | |
| 115 | All other projects or programmes - routine expenditure | | 578 | |
| 116 | Routine expenditure | | | 578 |
| 117 | Atypical expenditure | | | |
| 118 | <i>Project or programme*</i> | | (\$000) | (\$000) |
| 119 | | | | |
| 120 | | | | |
| 121 | | | | |
| 122 | | | | |
| 123 | | | | |
| 124 | <i>* include additional rows if needed</i> | | | |
| 125 | All other projects or programmes - atypical expenditure | | | |
| 126 | Atypical expenditure | | | - |
| 127 | | | | |
| 128 | Expenditure on non-network assets | | | 578 |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

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

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

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

sch ref

| | | (\$000) | (\$000) |
|----|--|---------|---------|
| 7 | 6b(i): Operational Expenditure | | |
| 8 | Service interruptions and emergencies | 1,203 | |
| 9 | Vegetation management | 924 | |
| 10 | Routine and corrective maintenance and inspection | 1,325 | |
| 11 | Asset replacement and renewal | 647 | |
| 12 | Network opex | | 4,099 |
| 13 | System operations and network support | 1,972 | |
| 14 | Business support | 2,250 | |
| 15 | Non-network opex | | 4,222 |
| 16 | | | |
| 17 | Operational expenditure | | 8,321 |
| 18 | 6b(ii): Subcomponents of Operational Expenditure (where known) | | |
| 19 | Energy efficiency and demand side management, reduction of energy losses | | |
| 20 | Direct billing* | | N/A |
| 21 | Research and development | | N/A |
| 22 | Insurance | | |
| 23 | * Direct billing expenditure by suppliers that directly bill the majority of their consumers | | |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

sch ref

| 7(i): Revenue | | Target (\$000) ¹ | Actual (\$000) | % variance |
|--|--|-------------------------------|----------------|--------------|
| 7 | | | | |
| 8 | Line charge revenue | 30,232 | 26,935 | (11%) |
| 7(ii): Expenditure on Assets | | Forecast (\$000) ² | Actual (\$000) | % variance |
| 9 | | | | |
| 10 | Consumer connection | 9,294 | 5,747 | (38%) |
| 11 | System growth | 1,622 | 2,840 | 75% |
| 12 | Asset replacement and renewal | 936 | 2,547 | 172% |
| 13 | Asset relocations | 178 | 136 | (23%) |
| 14 | Reliability, safety and environment: | | | |
| 15 | Quality of supply | 507 | 309 | (39%) |
| 16 | Legislative and regulatory | – | – | – |
| 17 | Other reliability, safety and environment | 377 | 400 | 6% |
| 18 | Total reliability, safety and environment | 884 | 709 | (20%) |
| 19 | Expenditure on network assets | 12,914 | 11,979 | (7%) |
| 20 | Expenditure on non-network assets | 840 | 578 | (31%) |
| 21 | Expenditure on assets | 13,754 | 12,557 | (9%) |
| 7(iii): Operational Expenditure | | | | |
| 22 | | | | |
| 23 | Service interruptions and emergencies | 797 | 1,203 | 51% |
| 24 | Vegetation management | 1,003 | 924 | (8%) |
| 25 | Routine and corrective maintenance and inspection | 1,203 | 1,325 | 10% |
| 26 | Asset replacement and renewal | 539 | 647 | 20% |
| 27 | Network opex | 3,542 | 4,099 | 16% |
| 28 | System operations and network support | 1,929 | 1,972 | 2% |
| 29 | Business support | 2,818 | 2,250 | (20%) |
| 30 | Non-network opex | 4,747 | 4,222 | (11%) |
| 31 | Operational expenditure | 8,289 | 8,321 | 0% |
| 7(iv): Subcomponents of Expenditure on Assets (where known) | | | | |
| 32 | | | | |
| 33 | Energy efficiency and demand side management, reduction of energy losses | | – | – |
| 34 | Overhead to underground conversion | | 445 | – |
| 35 | Research and development | | – | – |
| 36 | | | | |
| 7(v): Subcomponents of Operational Expenditure (where known) | | | | |
| 37 | | | | |
| 38 | Energy efficiency and demand side management, reduction of energy losses | | – | – |
| 39 | Direct billing | | N/A | – |
| 40 | Research and development | | N/A | – |
| 41 | Insurance | | – | – |
| 42 | | | | |

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

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

Company Name: **Waipa Networks Limited**
 For Year Ended: **31 March 2020**
 Network / Sub-Network Name:

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDN 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.

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8(i): Billed Quantities by Price Component

Billed quantities by price component

| Consumer group name or price category code | Consumer type or type(s) (eg. residential, commercial etc.) | Standard or non-standard consumer group (specify) | Average no. of ICPs in disclosure year | Energy delivered to ICPs in disclosure year (MWh) |
|--|---|---|--|---|
| Domestic | Residential | Standard | 21,642 | 164,517 |
| Non-Domestic | General | Standard | 5,196 | 119,474 |
| Commercial | General | Standard | 116 | — |
| 400V Capacity Contract | General | Standard | 55 | 34,274 |
| 11kV | General | Standard | 7 | 16,080 |
| 11kV | General | Non-standard | 1 | 49,414 |
| | | (Select one) | | |
| | | (Select one) | | |
| | | (Select one) | | |
| Add extra rows for additional consumer groups or price category codes as necessary | | | | |
| | | Standard consumer total | 27,215 | 325,315 |
| | | Non-standard consumer total | 2 | 49,414 |
| | | Total for all consumers | 27,217 | 390,950 |

Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)

API had not started

| Price component | Combined | Uncontrolled | Controlled | Controlled B | Day | Night | Peak | Off Peak | Shoulder | Peak All Inclusive | Off Peak All Inclusive | Shoulder All Inclusive | Streetlights | Buildings Temporary | Fixed Daily Charge | Capacity Charge | Monthly Charge | Transformer |
|-----------------|-------------------|--------------------|-------------------|------------------|----------|----------|-------------------|-------------------|-------------------|--------------------|------------------------|------------------------|------------------|---------------------|--------------------|-----------------|----------------|-------------|
| | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh | kWh |
| | 38,441,963 | 86,000,834 | 23,182,769 | 815,638 | — | — | 2,954,726 | 1,356,050 | 1,839,038 | 19,990 | 8,187 | 13,106 | | | | | | |
| | | 80,514,294 | 11,755,989 | 320,613 | — | — | 2,219,745 | 1,444,271 | 2,022,771 | | | | 9,308,728 | 796,594 | | | | |
| | | | | | | | 12,618,887 | 8,568,212 | 13,086,589 | | | | | | | | | |
| | | | | | | | 6,015,272 | 4,111,774 | 5,933,210 | | | | | | | | | |
| | | 65,614,869 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | 38,441,963 | 185,316,824 | 34,918,757 | 1,207,251 | — | — | 23,828,661 | 15,520,308 | 22,881,728 | 12,990 | 8,187 | 13,106 | 1,308,728 | 796,594 | — | — | — | — |
| | | 65,614,869 | | | — | — | | | | | | | | | — | — | — | — |
| | 38,441,963 | 251,951,693 | 34,918,757 | 1,207,251 | — | — | 23,828,661 | 15,520,308 | 22,881,728 | 12,990 | 8,187 | 13,106 | 1,308,728 | 796,594 | — | — | — | — |

API extra columns for additional billed quantities by price component as necessary
 Completed by TEC
 Completed by TEC
 Completed by TEC
 Completed by TEC
 Completed by TEC
 Completed by TEC
 Completed by TEC

Company Name: **Waipa Networks Limited**
 For Year Ended: **31 March 2020**
 Network / Sub-Network Name:

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

| | | | | | Line charge revenues (\$000) by price component | | | | | | | | | | | | | | | Add extra columns for additional line charge revenues by price component as necessary | | | | |
|----|--|---|---|---|---|--------------|------------|--------------|-----|-------|---------|----------|----------|--------------------|------------------------|------------------------|-----------------|---------------------|--------------------|---|----------------|-------------|---------|---------|
| | | | | | Price component | | | | | | | | | | | | | | | | | | | |
| | | | | | Combined | Uncontrolled | Controlled | Controlled 8 | Day | Night | Peak | Off Peak | Shoulder | Peak All Inclusive | Off Peak All Inclusive | Shoulder All Inclusive | Streetlights | Buildings Temporary | Fixed Daily Charge | Capacity Charge | Monthly Charge | Transformer | | |
| | | | | | kwh | kwh | kwh | kwh | kwh | kwh | kwh | kwh | kwh | kwh | kwh | \$ per day | kVA of capacity | \$ per Month | \$ per Day | Days | \$ per Month | | | |
| 35 | 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 | | | | | | | | | | | | | | | | | | | | |
| 36 | | | | National revenue foregone from pooled discounts (if applicable) | | | | | | | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | Domestic | Residential | Standard | \$13,234 | \$2,041 | \$8,151 | \$405 | \$8 | -- | -- | \$370 | \$17 | \$146 | \$2 | \$0 | \$1 | | | | | | | \$1,185 | |
| 39 | Non-Domestic | Commercial | Standard | \$9,098 | \$7,468 | \$206 | \$7 | -- | -- | \$268 | \$18 | \$114 | | | | | \$119 | \$80 | \$266 | | | | \$266 | |
| 40 | Commercial | Commercial | Standard | \$45 | | | | | | | | | | | | | | | | | | | \$45 | |
| 41 | Energy Capacity Contract | Commercial | Standard | \$2,388 | | | | | | | \$275 | \$105 | \$480 | | | | | | | | | | \$1,618 | |
| 42 | EVV | Commercial | Standard | \$985 | | | | | | | \$341 | \$51 | \$211 | | | | | | | | | | \$410 | \$12 |
| 43 | EVV | Commercial | Non-standard | \$1,285 | | | | | | | | | | | | | | | | | | | | \$1,285 |
| 44 | | | Direct one | -- | | | | | | | | | | | | | | | | | | | | |
| 45 | | | Direct one | -- | | | | | | | | | | | | | | | | | | | | |
| 46 | | | Direct one | -- | | | | | | | | | | | | | | | | | | | | |
| 47 | Add extra rows for additional consumer groups or price category codes as necessary | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | | | Standard consumer totals | \$25,610 | \$2,041 | \$15,820 | \$611 | \$11 | -- | -- | \$1,551 | \$191 | \$1,007 | \$2 | \$0 | \$1 | \$119 | \$80 | \$3,262 | -- | -- | -- | \$1,185 | \$42 |
| 49 | | | Non-standard consumer totals | \$1,285 | | | | | | | | | | | | | | | | | | | | \$1,285 |
| 50 | | | Total for all consumers | \$26,895 | \$2,041 | \$15,820 | \$611 | \$11 | -- | -- | \$1,551 | \$191 | \$1,007 | \$2 | \$0 | \$1 | \$119 | \$80 | \$3,262 | -- | -- | -- | \$1,285 | \$42 |
| 51 | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | 8(iii): Number of ICPs directly billed | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | Number of directly billed ICPs at year end | | | | | | | | | | | | | | | | | | | | | OK | | |

| | |
|----------------------------|------------------------|
| Company Name | Waipa Networks Limited |
| For Year Ended | 31 March 2020 |
| Network / Sub-network Name | |

SCHEDULE 9a: ASSET REGISTER

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

sch ref

| sch ref | Voltage | Asset category | Asset class | Units | Items at start of year (quantity) | Items at end of year (quantity) | Net change | Data accuracy (1-4) |
|---------|---------|-----------------------------|--|-------|-----------------------------------|---------------------------------|------------|---------------------|
| 8 | All | Overhead Line | Concrete poles / steel structure | No. | 20,658 | | (20,658) | 4 |
| 9 | All | Overhead Line | Wood poles | No. | 1,579 | | (1,579) | 4 |
| 10 | All | Overhead Line | Other pole types | No. | 3 | | (3) | N/A |
| 11 | HV | Subtransmission Line | Subtransmission OH up to 66kV conductor | km | - | | - | [Select one] |
| 12 | HV | Subtransmission Line | Subtransmission OH 110kV+ conductor | km | 36 | | (36) | 4 |
| 13 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (XLPE) | km | - | | - | [Select one] |
| 14 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Oil pressurised) | km | - | | - | [Select one] |
| 15 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (Gas pressurised) | km | - | | - | [Select one] |
| 16 | HV | Subtransmission Cable | Subtransmission UG up to 66kV (PILC) | km | - | | - | [Select one] |
| 17 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (XLPE) | km | - | | - | [Select one] |
| 18 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Oil pressurised) | km | - | | - | [Select one] |
| 19 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (Gas Pressurised) | km | - | | - | [Select one] |
| 20 | HV | Subtransmission Cable | Subtransmission UG 110kV+ (PILC) | km | - | | - | [Select one] |
| 21 | HV | Subtransmission Cable | Subtransmission submarine cable | km | - | | - | [Select one] |
| 22 | HV | Zone substation Buildings | Zone substations up to 66kV | No. | - | | - | [Select one] |
| 23 | HV | Zone substation Buildings | Zone substations 110kV+ | No. | - | | - | [Select one] |
| 24 | HV | Zone substation switchgear | 50/66/110kV CB (Indoor) | No. | - | | - | [Select one] |
| 25 | HV | Zone substation switchgear | 50/66/110kV CB (Outdoor) | No. | - | | - | [Select one] |
| 26 | HV | Zone substation switchgear | 33kV Switch (Ground Mounted) | No. | - | | - | [Select one] |
| 27 | HV | Zone substation switchgear | 33kV Switch (Pole Mounted) | No. | - | | - | [Select one] |
| 28 | HV | Zone substation switchgear | 33kV RMU | No. | - | | - | [Select one] |
| 29 | HV | Zone substation switchgear | 22/33kV CB (Indoor) | No. | - | | - | [Select one] |
| 30 | HV | Zone substation switchgear | 22/33kV CB (Outdoor) | No. | - | | - | [Select one] |
| 31 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (ground mounted) | No. | - | | - | [Select one] |
| 32 | HV | Zone substation switchgear | 3.3/6.6/11/22kV CB (pole mounted) | No. | - | | - | [Select one] |
| 33 | HV | Zone Substation Transformer | Zone Substation Transformers | No. | - | | - | [Select one] |
| 34 | HV | Distribution Line | Distribution OH Open Wire Conductor | km | 1,229 | | (1,229) | 4 |
| 35 | HV | Distribution Line | Distribution OH Aerial Cable Conductor | km | - | | - | [Select one] |
| 36 | HV | Distribution Line | SWER conductor | km | - | | - | [Select one] |
| 37 | HV | Distribution Cable | Distribution UG XLPE or PVC | km | 141 | | (141) | 4 |
| 38 | HV | Distribution Cable | Distribution UG PILC | km | 1 | | (1) | 4 |
| 39 | HV | Distribution Cable | Distribution Submarine Cable | km | - | | - | [Select one] |
| 40 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers | No. | 115 | | (115) | 4 |
| 41 | HV | Distribution switchgear | 3.3/6.6/11/22kV CB (Indoor) | No. | - | | - | [Select one] |
| 42 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switches and fuses (pole mounted) | No. | 5,152 | | (5,152) | 4 |
| 43 | HV | Distribution switchgear | 3.3/6.6/11/22kV Switch (ground mounted) - except RMU | No. | - | | - | [Select one] |
| 44 | HV | Distribution switchgear | 3.3/6.6/11/22kV RMU | No. | 110 | | (110) | 4 |
| 45 | HV | Distribution Transformer | Pole Mounted Transformer | No. | 2,727 | | (2,727) | 4 |
| 46 | HV | Distribution Transformer | Ground Mounted Transformer | No. | 800 | | (800) | 4 |
| 47 | HV | Distribution Transformer | Voltage regulators | No. | 54 | | (54) | 4 |
| 48 | HV | Distribution Substations | Ground Mounted Substation Housing | No. | - | | - | [Select one] |
| 49 | LV | LV Line | LV OH Conductor | km | 507 | | (507) | 4 |
| 50 | LV | LV Cable | LV UG Cable | km | 316 | | (316) | 4 |
| 51 | LV | LV Street lighting | LV OH/UG Streetlight circuit | km | 149 | | (149) | 4 |
| 52 | LV | Connections | OH/UG consumer service connections | No. | 26,441 | | (26,441) | 4 |
| 53 | All | Protection | Protection relays (electromechanical, solid state and numeric) | No. | - | | - | [Select one] |
| 54 | All | SCADA and communications | SCADA and communications equipment operating as a single system | Lot | 1 | | (1) | 4 |
| 55 | All | Capacitor Banks | Capacitors including controls | No. | - | | - | [Select one] |
| 56 | All | Load Control | Centralised plant | Lot | 3 | | (3) | 4 |
| 57 | All | Load Control | Relays | No. | 18,728 | | (18,728) | 4 |
| 58 | All | Civils | Cable Tunnels | km | - | | - | [Select one] |

Company Name **Waipa Networks Limited**

For Year Ended **31 March 2020**

Network / Sub-network Name

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

sch ref

| | | | |
|----|--|-------------------------------------|-------------------------|
| 9 | | | |
| 10 | Circuit length by operating voltage (at year end) | Overhead (km) | Underground (km) |
| 11 | > 66kV | 36 | — |
| 12 | 50kV & 66kV | — | — |
| 13 | 33kV | — | — |
| 14 | SWER (all SWER voltages) | — | — |
| 15 | 22kV (other than SWER) | — | — |
| 16 | 6.6kV to 11kV (inclusive—other than SWER) | 1,231 | 158 |
| 17 | Low voltage (< 1kV) | 509 | 334 |
| 18 | Total circuit length (for supply) | 1,776 | 492 |
| 19 | | | |
| 20 | Dedicated street lighting circuit length (km) | 67 | 85 |
| 21 | Circuit in sensitive areas (conservation areas, iwi territory etc) (km) | | — |
| 22 | | | |
| 23 | Overhead circuit length by terrain (at year end) | (% of total overhead length) | |
| 24 | Urban | 214 | 12% |
| 25 | Rural | 1,473 | 83% |
| 26 | Remote only | — | — |
| 27 | Rugged only | 80 | 4% |
| 28 | Remote and rugged | — | — |
| 29 | Unallocated overhead lines | 10 | 1% |
| 30 | Total overhead length | 1,776 | 100% |
| 31 | | | |
| 32 | | (% of total circuit length) | |
| 33 | Length of circuit within 10km of coastline or geothermal areas (where known) | 161 | 7% |
| 34 | | (% of total overhead length) | |
| 35 | Overhead circuit requiring vegetation management | 1,267 | 71% |

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2020**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

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

sch ref

| | Location * | Number of ICPs served | Line charge revenue (\$000) |
|----|---|-----------------------|-----------------------------|
| 8 | | | |
| 9 | Lakewood | 65 | 59,889 |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| 26 | * Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network | | |

| | |
|----------------------------|------------------------|
| Company Name | Waipa Networks Limited |
| For Year Ended | 31 March 2020 |
| Network / Sub-network Name | |

SCHEDULE 9e: REPORT ON NETWORK DEMAND

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

sch ref

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46
47

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

| |
|-------------|
| Residential |
| General |
| Unmetered |
| 11KV |
| |
| |

* include additional rows if needed

Number of connections (ICPs)

| |
|-----|
| 441 |
| 91 |
| |
| |
| |

Connections total

| |
|-----|
| 532 |
|-----|

Distributed generation

Number of connections made in year

| |
|----|
| 77 |
|----|

connections

Capacity of distributed generation installed in year

| |
|------|
| 0.51 |
|------|

MVA

9e(ii): System Demand

Maximum coincident system demand

GXP demand

| |
|----|
| 72 |
|----|

plus Distributed generation output at HV and above

Maximum coincident system demand

| |
|----|
| 72 |
|----|

less Net transfers to (from) other EDBs at HV and above

Demand on system for supply to consumers' connection points

| |
|----|
| 72 |
|----|

Demand at time of maximum coincident demand (MW)

Electricity volumes carried

Electricity supplied from GXPs

| |
|-----|
| 413 |
|-----|

less Electricity exports to GXPs

plus Electricity supplied from distributed generation

| |
|---|
| 2 |
|---|

less Net electricity supplied to (from) other EDBs

Electricity entering system for supply to consumers' connection points

| |
|-----|
| 415 |
|-----|

less Total energy delivered to ICPs

| |
|-----|
| 391 |
|-----|

Electricity losses (loss ratio)

| |
|----|
| 24 |
|----|

5.7%

Load factor

| |
|------|
| 0.66 |
|------|

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

| |
|-----|
| 274 |
|-----|

Distribution transformer capacity (Non-EDB owned, estimated)

| |
|----|
| 49 |
|----|

Total distribution transformer capacity

| |
|-----|
| 322 |
|-----|

Zone substation transformer capacity

| |
|-----|
| n/a |
|-----|

(MVA)

| | |
|----------------------------|------------------------|
| Company Name | Waipa Networks Limited |
| For Year Ended | 31 March 2020 |
| Network / Sub-network Name | |

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8 **10(i): Interruptions**

9 **Interruptions by class**

| | Number of interruptions |
|--|-------------------------|
| 10 Class A (planned interruptions by Transpower) | |
| 11 Class B (planned interruptions on the network) | 163 |
| 12 Class C (unplanned interruptions on the network) | 176 |
| 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) | |
| 19 Total | 340 |

21 **Interruption restoration**

| | ≤3Hrs | >3hrs |
|--|-------|-------|
| 22 Class C interruptions restored within | 102 | 74 |

24 **SAIFI and SAIDI by class**

| | SAIFI | SAIDI |
|--|-------|-------|
| 25 Class A (planned interruptions by Transpower) | - | - |
| 26 Class B (planned interruptions on the network) | 0.30 | 87.0 |
| 27 Class C (unplanned interruptions on the network) | 2.20 | 182.0 |
| 28 Class D (unplanned interruptions by Transpower) | 0.52 | 77.1 |
| 29 Class E (unplanned interruptions of EDB owned generation) | | |
| 30 Class F (unplanned interruptions of generation owned by others) | | |
| 31 Class G (unplanned interruptions caused by another disclosing entity) | | |
| 32 Class H (planned interruptions caused by another disclosing entity) | | |
| 33 Class I (interruptions caused by parties not included above) | | |
| 34 Total | 3.02 | 346.1 |

36 **Normalised SAIFI and SAIDI**

| | Normalised SAIFI | Normalised SAIDI |
|---|------------------|------------------|
| 37 Classes B & C (interruptions on the network) | 2.50 | 269.0 |

| | |
|----------------------------|------------------------|
| Company Name | Waipa Networks Limited |
| For Year Ended | 31 March 2020 |
| Network / Sub-network Name | |

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

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

| Cause | SAIFI | SAIDI |
|--------------------------|-------|-------|
| Lightning | 0.06 | 4.5 |
| Vegetation | 0.39 | 25.0 |
| Adverse weather | 0.08 | 7.3 |
| Adverse environment | – | – |
| Third party interference | 0.55 | 61.9 |
| Wildlife | 0.06 | 3.1 |
| Human error | 0.21 | 17.6 |
| Defective equipment | 0.53 | 53.0 |
| Cause unknown | 0.31 | 9.7 |

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

| Main equipment involved | SAIFI | SAIDI |
|------------------------------------|-------|-------|
| Subtransmission lines | | |
| Subtransmission cables | | |
| Subtransmission other | | |
| Distribution lines (excluding LV) | 0.28 | 83.8 |
| Distribution cables (excluding LV) | 0.00 | 0.8 |
| Distribution other (excluding LV) | 0.02 | 2.3 |

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

| Main equipment involved | SAIFI | SAIDI |
|------------------------------------|-------|-------|
| Subtransmission lines | | |
| Subtransmission cables | | |
| Subtransmission other | | |
| Distribution lines (excluding LV) | 2.03 | 162.6 |
| Distribution cables (excluding LV) | 0.00 | 0.7 |
| Distribution other (excluding LV) | 0.17 | 18.7 |

10(v): Fault Rate

| Main equipment involved | Number of Faults | Circuit length (km) | Fault rate (faults per 100km) |
|------------------------------------|------------------|---------------------|-------------------------------|
| Subtransmission lines | | | – |
| Subtransmission cables | | | – |
| Subtransmission other | | | |
| Distribution lines (excluding LV) | 170 | 1,231 | 13.81 |
| Distribution cables (excluding LV) | 2 | 158 | 1.27 |
| Distribution other (excluding LV) | 9 | | |
| Total | 181 | | |