

# **Preliminary Annual Notice - Power and Water Corporation**

## **Appendix A – Data workbooks instructions**

**March 2023**

## © Commonwealth of Australia 2023

This work is copyright. In addition to any use permitted under the *Copyright Act 1968* all material contained within this work is provided under a Creative Commons Attributions 3.0 Australia licence with the exception of:

- the Commonwealth Coat of Arms
- the ACCC and AER logos
- any illustration diagram, photograph or graphic over which the Australian Competition and Consumer Commission does not hold copyright but which may be part of or contained within this publication.

The details of the relevant licence conditions are available on the Creative Commons website as is the full legal code for the CC BY 3.0 AU licence.

Inquiries about this publication should be addressed to:

Australian Energy Regulator  
GPO Box 520  
Melbourne VIC 3001  
Tel: 1300 585 165

AER reference: AER23006849

# Contents

<b>1</b>	<b>General instructions .....</b>	<b>1</b>
1.1	Data requirements .....	1
1.2	General .....	1
1.3	Cost allocation .....	2
1.4	Customer and government contributions .....	2
1.5	Asset base .....	2
1.6	Regulatory accounting principles and policies .....	3
<b>2</b>	<b>Workbook 02 - Operational outputs.....</b>	<b>4</b>
2.1	Energy delivered .....	4
2.2	Demand .....	4
2.3	Connections .....	7
2.4	Other outputs .....	7
2.5	Export services.....	8
<b>3</b>	<b>Workbook – Network metrics.....</b>	<b>10</b>
3.1	Network assets – volume .....	10
3.2	Non-network assets – volume .....	10
3.3	Length .....	10
3.4	Capacity .....	11
3.5	Asset metrics.....	13
3.6	Terrain.....	14
3.7	Safety.....	16
<b>4</b>	<b>Workbook - Customer numbers.....</b>	<b>17</b>
4.1	Total customer numbers.....	17
4.2	Customers (EB).....	17
4.3	Customers (STPIS) by feeder .....	17
4.4	Customers by tariffs (Cost reflective and non-cost reflective) .....	17
4.5	Customers – other.....	18
<b>5</b>	<b>Workbook – Service performance .....</b>	<b>19</b>
5.1	Interruptions .....	19
5.2	Call centre.....	19
5.3	Other service measures .....	19
<b>6</b>	<b>Workbook – Operating expenditure.....</b>	<b>21</b>
6.1	Distribution business .....	21
6.2	Standard control.....	21
6.3	Alternative Control.....	23
6.4	New data collections .....	24
<b>7</b>	<b>Workbook – Capital expenditure .....</b>	<b>26</b>
7.2	Distribution business .....	26
7.3	Standard control services .....	26

7.4	ACS .....	29
7.5	New data collections .....	30
<b>8</b>	<b>Workbook – Asset base values.....</b>	<b>32</b>
8.1	Standard control.....	32
8.2	Alternative control .....	33
8.3	Network services .....	33
<b>9</b>	<b>Workbook – Revenue and financial statements .....</b>	<b>35</b>
9.1	Distribution business .....	35
9.2	Standard control.....	35
9.3	ACS .....	38
9.4	Other services .....	38
9.5	Total expenditure .....	39
9.6	Provisions .....	39
<b>10</b>	<b>Workbook – Prices.....</b>	<b>40</b>
10.1	Connections .....	40

# 1 General instructions

## 1.1 Data requirements

- 1.1.1 General instructions relevant to the completion of the *data workbooks* are contained in each of the *data workbooks* attached at *Appendix A*.
- 1.1.2 Data requirements are identified by reference to table headings, row descriptors and column headings. They are represented as input cells - shaded green in the *data workbooks*.
- 1.1.3 Reported data (inputs) must meet validation rules and consistency cross checks, as set out in the *data workbooks*.
- 1.1.4 Where a NULL response is specified as valid a response to the data requirement is not mandatory.
- 1.1.5 *Power and Water Corporation* must identify and explain each NULL response in its *basis of preparation*.
- 1.1.6 Where a NULL response is specified as not valid (that is, a response to the data requirement is mandatory) and the data requirement is not relevant to *Power and Water Corporation* in the *reporting period*, it must report '0'.

## 1.2 General

- 1.2.1 *Power and Water Corporation* must report the data in the *data workbooks* in accordance with:
  - (a) the service classifications that apply or applied in the *reporting period*; and
  - (b) the *cost allocation method* approved by the AER for the *reporting period*.
- 1.2.2 *Power and Water Corporation* must report *financial information* in the *data workbooks* that:
  - (a) is derived from the *audited statutory accounts*;
  - (b) is verifiable by reference to the *audited statutory accounts*;
  - (c) is generally prepared using the accrual basis of accounting;
  - (d) is presented on a fair and consistent basis, from the *accounting records* that underlie the costs, revenue, assets and liabilities that may be reasonably attributed to the *Power and Water Corporation*;
  - (e) in so far as is reasonably practicable, is prepared in accordance with the general rules and format of the *audited statutory accounts*, and use the accounting principles and policies applicable to the *audited statutory accounts* except as otherwise required by this *Notice*;
  - (f) is presented in an understandable manner, without sacrificing relevance or reliability; and
  - (g) states fairly the financial performance of *Power and Water Corporation*.

## 1.3 Cost allocation

- 1.3.1 *Power and Water Corporation* must allocate all costs that relate to or are incurred in the provision of *distribution services* in the *audited statutory accounts*, to *Power and Water Corporation* in accordance with section 1.3.3.
- 1.3.2 All costs allocated to *Power and Water Corporation* in the response to section 1.3.1 must in turn be allocated in accordance with section 1.3.3 to:
- (a) a *standard control service*;
  - (b) an *alternative control service*;
  - (c) a *negotiated service*; or
  - (d) an *unclassified or unregulated service*.
- 1.3.3 A cost allocated to *Power and Water Corporation* that is:
- (a) *directly attributable* to *Power and Water Corporation*, must be allocated to *Power and Water Corporation*;
  - (b) not *directly attributable* to the *Power and Water Corporation* must be allocated to the *Power and Water Corporation* on a causation basis, using an appropriate allocator, determined in accordance with section 4.5 of the *Notice*, unless the *item* is not *material*;
  - (c) *directly attributable* to the *Power and Water Corporation* but not *directly attributable* to a *standard control service*, an *alternative control service*, a *negotiated service* or an *unclassified or unregulated service*, must be allocated across *distribution services* in accordance with the approved *cost allocation method*;
  - (d) *capital expenditure* must be allocated to an *asset class* on a *directly attributable* basis or a causation basis using an appropriate allocator; and
  - (e) *operating expenditure* must be allocated to an *opex category* on a *directly attributable* basis or a causation basis using an appropriate allocator.

**Note:** See sections 4.5 and 4.6 of the *Notice*.

## 1.4 Customer and government contributions

- 1.4.1 *Power and Water Corporation* must not carry forward into the asset base, *capital contributions* treated as revenues in *audited statutory accounts* and included in the value of assets.
- 1.4.2 *Power and Water Corporation* must report *capital contributions* in accordance with the method approved in *Power and Water Corporation's* current *distribution determination*.

## 1.5 Asset base

- 1.5.1 *Power and Water Corporation* must not revalue assets or adjust asset values for impairment unless expressly permitted in writing or required by the *AER*.

- 1.5.2 *Power and Water Corporation* must report revaluations or adjustments for impairment made in the *audited statutory accounts* in the *adjustments* column in *Workbook 09 – Revenue and financial information*.
- 1.5.3 *Power and Water Corporation* must report *capital expenditure* against an *asset class* and not under a work in progress heading.
- 1.5.4 *Power and Water Corporation* must not report *financial information* that includes goodwill or related impairments.

## 1.6 Regulatory accounting principles and policies

- 1.6.1 The *regulatory accounting principles and policies* applied by *Power and Water Corporation* must:
- (a) be based on a recognisable and rational economic basis;
  - (b) ensure that the resultant *financial information* satisfies the concepts of relevance and reliability;
  - (c) ensure that the substance of the underlying transactions and events is reported in the *financial information*;
  - (d) ensure that the *financial information* can be understood;
  - (e) allow for comparisons to be made over time; and
  - (f) conform to the recognition and measurement principles of the Australian Accounting Standards.
- 1.6.2 Unless otherwise required by this *Notice*, *Power and Water Corporation* must report *capital expenditure* and associated data (such as asset volumes) in the *data workbooks* against the *reporting period* on an as-incurred basis.

## 2 Workbook 02 - Operational outputs

### 2.1 Energy delivered

- 2.1.1 *Power and Water Corporation* must report *energy delivered* in a *reporting period* as the energy metered or estimated at the customer charging location rather than the import location.
- 2.1.2 *Power and Water Corporation* must report *energy delivered* as the actual energy delivered, unless actual data is not available. Where actual data is not available for the most recent *reporting period*, *Power and Water Corporation* may report energy delivered data for that period on an accrual basis.
- 2.1.3 *Power and Water Corporation* may report *energy delivered* as on-peak, shoulder and off-peak times according to its own charging periods.

#### Energy delivery by time of delivery

- 2.1.4 *Power and Water Corporation* must report *energy delivered* as 'Energy Delivery where time of use is not a determinant' (EB RIN reference: DOPED0201) only where that *energy delivered* was not charged as on-peak, shoulder or off-peak.

#### Energy received by time of receipt

- 2.1.5 *Power and Water Corporation* must report energy received as measured at supply points.
- 2.1.6 *Power and Water Corporation* must report energy received against 'Energy received not included in the above categories' (EB RIN reference: DOPED0304) only where it is not accurate to report the energy received as on-peak, shoulder or off-peak.

#### Energy received from embedded generation by time of receipt

- 2.1.7 'Energy received from embedded generation not included in above categories' (EB RIN reference: DOPED0404 and DOPED0408) includes energy received from embedded generation on an accumulation basis and not measured by the time of receipt. *Power and Water Corporation* must report energy received in 'not included in above categories' only where it is not possible to report the energy received as on-peak, shoulder or off-peak,
- where 'not included in above categories' refers to:
- (i) non-residential – EB RIN reference: DOPED0401–DOPED0403; and
  - (ii) residential – EB RIN reference DOPED0405–DOPED0407.

### 2.2 Demand

- 2.2.1 Where – has calculated and maintained data for historical Weather Adjusted Maximum Demand it must report that data.



### **Annual system Maximum Demand characteristics at the transmission connection point level (Alice Springs; Darwin to Katherine; Tennant Creek)**

2.2.2 *Power and Water Corporation* must report ‘Embedded generation’ where it has kept and maintained historical data for embedded generation downstream of connection points and where it accounts for such embedded generation in its maximum demand forecast.

- (a) *Power and Water Corporation* must describe the type of embedded generation data it has reported. For example, *Power and Water Corporation* may state it has included scheduled, semi-scheduled and non-scheduled embedded generation. In this example, we may calculate native demand by adding these figures to raw maximum demand.

#### *Maximum demand characteristics*

2.2.3 For the ‘Winter/Summer peaking’ line item, *Power and Water Corporation* must identify the season in which the raw maximum demand occurred by entering ‘Winter’ or ‘Summer’ as appropriate.

2.2.4 Where the seasonality of the *Power and Water Corporation’s* maximum demand (MD) does not correspond with the form of its regulatory years, *Power and Water Corporation* must explain its basis of reporting MD in the *basis of preparation*. For example, if *Power and Water Corporation* forecasts expenditure on a financial year basis but forecasts MD on a calendar year basis because MD occurs in winter, *Power and Water Corporation* would state that it reports MD on a calendar year basis and describe, for example, the months that it includes in any given *reporting period*.

2.2.5 Where *Power and Water Corporation* has kept and maintained historical and forecast weather corrected maximum demand, it must report that data.

- (a) *Power and Water Corporation* must describe its weather correction process in the *basis of preparation*, including whether the reported weather corrected maximum demand data is based on raw adjusted maximum demand or raw unadjusted maximum demand or another type of maximum demand figure.
- (b) *Power and Water Corporation* must report weather corrected maximum demand in accordance with best regulatory practice weather correction methodologies.

### **Coincident and non-coincident maximum demand by sub-transmission substation and zone substation**

2.2.6 *Power and Water Corporation* must report maximum demand information for all network segments (sub-transmission substation or zone substation).

- (a) *Power and Water Corporation* must report data for each substation separately. *Power and Water Corporation* must identify in the *basis of preparation* instances where it has decommissioned substations.

2.2.7 *Power and Water Corporation* must report the normal cyclic rating for all substations in each network segment.

- (a) *Power and Water Corporation* must report the seasonal rating that corresponds to the time of the raw adjusted maximum demand. For example, *Power and*

*Water Corporation* must report the summer normal cyclic rating of the substation if the raw adjusted maximum demand for that substation occurred in summer.

- (b) Where *Power and Water Corporation* does not keep and maintain rating information it may estimate this information or report a NULL response.

2.2.8 Where maximum demand in MVA and maximum demand in MW occurred at different times, *Power and Water Corporation* must report maximum demand figures for both measures at the time maximum demand in MW occurred. In such instances, *Power and Water Corporation* must identify in the *basis of preparation* the date the maximum demand in MVA occurred.

2.2.9 If either the MW or MVA measure is unavailable, *Power and Water Corporation* must approximate the power factor conversion based on best engineering estimates.

2.2.10 If *Power and Water Corporation* has not used raw unadjusted maximum demand as the basis for coincident and non-coincident maximum demand by substation, it must describe the methods it employs to calculate the reported data in the *basis of preparation*.

2.2.11 *Power and Water Corporation* must report 'Adjustments - Embedded generation' where it has kept and maintained historical data for embedded generation downstream of the specified network segment and/or where it accounts for such embedded generation in its maximum demand forecast.

- (a) *Power and Water Corporation* must allocate embedded generation data to the appropriate substation under system normal conditions (consistent with the definition of raw adjusted maximum demand).
- (b) *Power and Water Corporation* must describe the type of embedded generation data it has reported in the *basis of preparation*. For example, *Power and Water Corporation* may state it has included scheduled, semi-scheduled and non-scheduled embedded generation. In this example, we can calculate native demand by adding these figures to the raw adjusted maximum demand figures.

2.2.12 Where *Power and Water Corporation* has calculated historical weather corrected maximum demand it must report that data.

- (a) *Power and Water Corporation* must describe its weather correction process in the *basis of preparation*. *Power and Water Corporation* must identify whether the reported weather corrected maximum demand data is based on raw adjusted maximum demand or raw unadjusted maximum demand or another type of maximum demand figure.
- (b) *Power and Water Corporation* must report weather corrected maximum demand in accordance with best regulatory practice weather correction methodologies.

2.2.13 *Power and Water Corporation* must report System coincident data which is demand at that particular point on the network (e.g. zone substations) at the time of system (or network) peak.

2.2.14 *Power and Water Corporation* must report Non coincident maximum demand data for each zone substation in each year. Such data may not necessarily coincide demand at the time of system peak.

2.2.15 Where *Power and Water Corporation* does not record and/or maintain spatial maximum demand coincident to the system maximum demand it must report spatial maximum demand coincident to a higher network segment. *Power and Water Corporation* must identify in the *basis of preparation* the higher network segment. For example, if *Power and Water Corporation* does not maintain maximum demand data for zone substations coincident to the system maximum demand, it must report maximum demand data coincident to the connection point. In this example, *Power and Water Corporation* would identify the relevant connection point in the *basis of preparation*.

## 2.3 Connections

### New connections – standard control services

### New connections – excluding standard control services

2.3.1 *Power and Water Corporation* must report data for connection services that reconciles to internal planning models used by *Power and Water Corporation*.

2.3.2 *Power and Water Corporation* must report data only for non-contestable, regulated connection services, including such services performed by third parties on its behalf.

### Other connections activities

2.3.3 For augmentation data, 'km added' refers to the net addition of circuit line length resulting from the augmentation work of complex connections.

2.3.4 The definitions of complex connections provide guidance on the types of augmentation works which must be reported as connection services.

2.3.5 *Power and Water Corporation* must report augmentation for connections relating to customer connection requests. *Power and Water Corporation* must not double count augmentation work. Augmentation work must be reported by its primary purpose as either augmentation or connections works.

2.3.6 *Power and Water Corporation* must report the MVA added for distribution substations installed for connection services. *Power and Water Corporation* must report MVA added as the sum of the nameplate rating for all distribution substations installed for the *reporting period*.

## 2.4 Other outputs

### Metering activities

2.4.1 Metering services reported by *Power and Water Corporation* must reconcile to internal planning models used by *Power and Water Corporation*.

2.4.2 *Power and Water Corporation* must report data only for non-contestable, regulated metering services, including such services performed by third parties on its behalf.

2.4.3 *Power and Water Corporation* must not report metering services data classified as contestable by the AER.

### Fee based and quoted services

- 2.4.4 *Power and Water Corporation* must report fee-based and quoted services data that reconciles to internal planning models used by *Power and Water Corporation*.
- 2.4.5 *Power and Water Corporation* must list all the fee-based and quoted services that were listed in the annual tariff proposal for the *reporting period*.
- 2.4.6 *Power and Water Corporation* must report a description of each fee-based and quoted service listed. *Power and Water Corporation* must explain the purpose of each service and detail the activities which comprise each service. If that information has previously been submitted to the *AER*, *Power and Water Corporation* may note and reference the earlier submission and does not have to resubmit the material.

#### **Asset augmentation activities**

- 2.4.7 *Power and Water Corporation* must include only projects and expenditure related to augmentation of the network – defined with reference to the primary purpose of the project or expenditure. Augmentation work related to connection must be reported as a connection activity.
- 2.4.8 *Power and Water Corporation* must not include information for gifted assets.
- 2.4.9 For projects that span across *reporting periods*, input figures for the units added or units upgraded according to the final year in which expenditure was incurred for the project.

#### **Asset replacement and maintenance activities**

- 2.4.10 *Power and Water Corporation* must report data on asset replacement and maintenance by asset class, disaggregated into asset sub-categories.
- 2.4.11 Where *Power and Water Corporation* considers the prescribed asset group categories do not account for an asset on the *Power and Water Corporation's* distribution system, *Power and Water Corporation* must report the asset in the 'Other by business specified category' and must report an appropriate high-level description for that asset.
- 2.4.12 Where *Power and Water Corporation* considers the prescribed asset class subcategories do not account for an asset on its network, *Power and Water Corporation* must report the asset in the row 'other' under the relevant asset class. For each asset class, *Power and Water Corporation* must describe the assets included as 'other' in the *basis of preparation*.
- 2.4.13 Where *Power and Water Corporation* reports replacements associated with asset refurbishments/ life extensions, it must report against the asset class 'Other by business specified category'. Each asset sub-category in this asset class must be described by the equivalent asset sub-category followed by the word 'refurbished'.
- 2.4.14 For each asset reported as 'other' in either a subcategory or in 'Other by business specified category', *Power and Water Corporation* must report corresponding age profile data in workbook 03.

## **2.5 Export services**

### **Export volumes**

### **Exporting customer capacity**

- 2.5.1 *Power and Water Corporation* must report export service volumes and customer capacity by feeder classification.
- 2.5.2 When reporting volume or capacity data for customers on isolated networks, *Power and Water Corporation* must not include that data in the disaggregated feeder classification data.

## 3 Workbook – Network metrics

### 3.1 Network assets – volume

3.1.1 All asset volumes are to be reported as at the end of the *reporting period*.

#### Meter population

3.1.2 The reported *metering services* data must reconcile with internal planning models used by the *Power and Water Corporation*.

3.1.3 *Power and Water Corporation* must report data only for non-contestable, regulated metering services, including such services performed by third parties on its behalf.

3.1.4 *Power and Water Corporation* must not report data for *metering services* that have been classified as contestable by the AER.

#### Total poles by feeder type

3.1.5 *Power and Water Corporation* must report total volume of assets currently in commission for Poles by feeder type. Where this data is estimated *Power and Water Corporation* must explain in the *basis of preparation* how it has determined the volumes.

#### Asset age profile

3.1.6 *Power and Water Corporation* must report asset volumes by year commissioned, such that the asset classes and subcategories exactly match the asset classes and subcategories used to report asset replacement activities.

### 3.2 Non-network assets – volume

3.2.1 There are no additional instructions.

### 3.3 Length

#### Circuit length

##### - Overhead network length of circuit at each voltage

##### - Underground network length of circuit at each voltage

3.3.1 *Power and Water Corporation* must report capacity data for its *distribution network*. The network includes overhead power lines and towers, underground cables and pilot cables that transfer electricity from the regional bulk supply points supplying areas of consumption to individual zone substations, to distribution substations and to customers. The network also includes distribution feeders and the low voltage distribution system but excludes the final connection from the mains to the customer and excludes wires or cables for communication, protection or control and connection to unmetered loads.

3.3.2 *Power and Water Corporation* must report voltages for 'Other overhead voltages' and 'Other underground voltages' as the aggregate circuit length for all voltages that comprise 'other'. *Power and Water Corporation* must identify the 'other' voltages in its *basis of preparation*.

- 3.3.3 *Power and Water Corporation* must report *circuit length* calculated from the *route line length* (measured in kilometres) of lines in service (that is, the total length of feeders including all spurs), where each SWER line, single-phase line, and three-phase line counts as one line. A double circuit line counts as two lines. The circuit length must not include vertical components such as sag.

### Service area factors

- 3.3.4 *Power and Water Corporation* must report the *route line length* of its network. The route line length may not equal the circuit length as the circuit length may include multiple circuits.

### Length data – selected asset characteristics

*Overhead conductors by: conductor length by feeder type*

*Overhead conductors by: conductor length by material type*

*Underground cables by: cable length by feeder type*

- 3.3.5 For each disaggregated asset type, *Power and Water Corporation* must report the total volume of assets in commission at the end of the *reporting period*, and the number of assets replaced in the *reporting period*.

## 3.4 Capacity

### Circuit capacity MVA

*Estimated overhead network weighted average MVA capacity by voltage class*

*Estimated underground network weighted average MVA capacity by voltage class*

- 3.4.1 For each of the listed voltage classes *Power and Water Corporation* must report estimated typical or weighted average capacities under normal circumstances taking account of limits imposed by thermal or by voltage drop considerations as relevant. This information will be used to calculate an overall MVA x km 'carrying capacity' for each voltage class under normal circumstances.
- 3.4.2 *Power and Water Corporation* must report summer Maximum Demands for summer peaking assets and winter Maximum Demands for winter peaking assets. Where *Power and Water Corporation's* peak has changed from winter to summer (or vice versa) during the *regulatory period*, winter ratings should be applied for those years where there was a winter peak and summer ratings for those years where there was a summer peak.
- 3.4.3 Where circuits travel both overhead and underground and the capacity of the overhead and underground components is not available separately, *Power and Water Corporation* may split the known circuit capacity by the ratio of its overhead network to its underground network and report estimate values for the overhead capacity and underground capacity components.

### Transformer capacities

*Distribution transformer total installed capacity*

- 3.4.4 The total installed distribution transformer capacity is the transformer capacity involved in the final level of transformation, stepping down the voltage used in the distribution



lines to the level used by the customer. It does not include intermediate transformation capacity (e.g. 132 kV or 66 kV to the 22 kV or 11 kV distribution level). The capacity measure is the normal nameplate continuous capacity / rating (including forced cooling and other factors used to improve capacity).

- 3.4.5 Total installed distribution transformer capacity includes cold spare capacity of distribution transformers and excludes the capacity of all zone substation transformers, voltage transformers (potential transformers) and current transformers.
- 3.4.6 When reporting 'Distribution other - transformer capacity owned by utility' *Power and Water Corporation* must report the transformer capacity owned by it and report in its *basis of preparation* the nameplate continuous rating including forced cooling.
- 3.4.7 Where the transformer capacity owned by customers connected at high voltage is not available, report summation of individual Maximum Demands of high voltage customers whenever they occur (i.e. the summation of single annual Maximum Demand for each customer).
- 3.4.8 For 'Cold spare capacity included in distribution transformer capacity owned by utility' (EB RIN reference: DPA0501) *Power and Water Corporation* must report the total capacity of spare transformers owned by *Power and Water Corporation* but not used in the *reporting period*.

#### *Zone substation transformer capacity*

- 3.4.9 *Power and Water Corporation* must report transformer capacity used for intermediate level transformation capacity in either one or two steps. For example, high voltages such as 132 kV, 66 kV or 33kV at the zone substation level to the distribution level of 22 kV, 11 kV or 6kV.
- 3.4.10 *Power and Water Corporation* must report zone substation transformer capacities as the summation of normal assigned continuous capacity / rating (with forced cooling or other capacity improving factors included) and include both energised transformers and cold spare capacity. *Power and Water Corporation* must report the assigned rating determined from results of temperature rise calculations from testing. If the assigned rating is not available, *Power and Water Corporation* must report the nameplate rating. For zone substations where the thermal capacity of exit feeders is a constraint, the *Power and Water Corporation* must report thermal capacity of exit feeders instead of transformer capacity.
- 3.4.11 *Power and Water Corporation* must report total installed capacity for first step transformation where there are two steps to reach distribution voltage, as:
  - (a) "Total installed capacity for first step transformation where there are two steps to reach distribution voltage" (EB RIN reference: DPA0601) includes, for example, 66 kV or 33 kV to 22 kV or 11 kV where there will be a second step transformation before reaching the distribution voltage. This variable is only relevant where *Power and Water Corporation* has more than one step of transformation, if this is not the case *Power and Water Corporation* must enter '0' for this variable.
- 3.4.12 *Power and Water Corporation* must report total installed capacity for second step transformation where there are two steps to reach distribution voltage as:



- (a) "Total installed capacity for second step transformation where there are two steps to reach distribution voltage" (EB RIN reference: DPA0602) report total installed capacity where a second step transformation is applied before reaching the distribution voltage. For example 66 kV or 33 kV to 22 kV or 11 kV where there has already been a step of transformation above this at higher voltages within *Power and Water Corporation's* system. This variable is only relevant where *Power and Water Corporation* has more than one step of transformation, if this is not the case it must enter '0' for this variable.

3.4.13 *Power and Water Corporation* must report total zone substation transformer capacity where there is only a single transformation to reach distribution voltage as:

- (a) "Total zone substation transformer capacity where there is only a single transformation to reach distribution voltage" (EB RIN reference: DPA0603) report total installed capacity where only a single step of transformation is applied before reaching the distribution voltage. This variable is only relevant where there is only a single step of transformation to reach distribution voltage. If there is more than one step of transformation to reach distribution voltage, the relevant capacities must be reported in EB RIN reference: DPA0601 and EB RIN reference: DPA0602.

3.4.14 *Power and Water Corporation* must report total zone substation transformer capacity as:

- (a) 'Total zone substation transformer capacity' (EB RIN reference: DPA0604) the overall total zone substation capacity regardless of whether one or two steps are used to reach the distribution voltage (for example EB RIN reference: DPA0604 will be the sum of EB RIN reference: DPA0601, DPA0602, DPA0603 and DPA0605.)

3.4.15 Cold Spare Capacity of zone substation transformers included in total zone substation transformer capacity:

- (a) For 'Cold Spare Capacity of zone substation transformers included in EB RIN reference: DPA0604' (EB RIN reference: DPA0605), report total Cold Spare Capacity included in total zone substation transformer capacity.

### **Selected asset characteristics – capacity data**

3.4.16 There are no additional instructions.

## **3.5 Asset metrics**

### **Asset lives**

3.5.1 *Power and Water Corporation* must report asset lives for all asset categories.

#### *Estimated service life of new assets*

3.5.2 *Power and Water Corporation* must report the *expected service life of new assets*. New assets are assets installed in the *reporting period*. The expected service life of new assets is the period after installation of a new asset during which the asset is expected to be capable of delivering the same effective service as at its installation date.

3.5.3 The expected service life may not align with the asset's financial or tax life.

#### *Estimated residual service life*

3.5.4 *Power and Water Corporation* must report the weighted average remaining time an asset class is expected to deliver the same effective service as at its installation date. The remaining time is to be calculated from the end of the *reporting period*.

#### *Asset life estimation method*

3.5.5 Where the categories comprise of several assets, *Power and Water Corporation* must report asset lives for the whole category by weighting the lives of individual assets within that category. Weightings must be calculated as follows, in order of preference:

1. On the basis of the asset's share of the asset base for the category and expected asset lives;
2. If 1 is not available, on the basis of replacement costs and expected asset lives;
3. If 1 and 2 cannot be applied, in accordance with the asset's contribution to the category's capacity (i.e. MVA-kms for lines and for cables and MVA for transformers).
4. The weighted average asset life of each category is as set out in Equation 1.

#### *Equation 1 Weighted average asset life calculation*

Weighted average asset life for assets in category  $j = \sum_{i=1}^n \frac{x_{i,j}}{RC_j} \cdot EL_{i,j}$

Where:

$n$  is the number of assets in category  $j$

$x_{i,j}$  is the value of asset  $i$  in category  $j$

$EL_{i,j}$  is the expected life of asset  $i$  in category  $j$

$RC_j$  is the sum of the value of all assets in category  $j$

For example, where the weightings are based on asset base shares or replacement costs, the weighted average asset life of each category must be calculated according to the following formula: If Category 1 contains 2 assets; Asset 1 has an expected life of 50 years and a value of \$3 million; and Asset 2 has an expected life of 20 years and a value of \$2 million, then the weighted average asset life of assets in this category is 38 years:  $[(3/5) \times 50] + [(2/5) \times 20] = 38$ .

### **Inspection and maintenance cycles**

3.5.6 There are no additional instructions.

## **3.6 Terrain**

### **Terrain factors**

3.6.1 Number of maintenance spans: Where *Power and Water Corporation* records poles rather than spans, the number of spans is the number of poles less one.

3.6.2 *Power and Water Corporation* may calculate the 'average frequency of cutting cycle' as a simple average of all cutting cycles.

### *Total urban and CBD / Total rural*

3.6.3 *Power and Water Corporation* must report the average number of trees per vegetation maintenance span. If *Power and Water Corporation* does not have *actual information* for the ‘average number of trees per vegetation maintenance span’ it must, estimate this data using one or a combination of the following data sources:

- Encroachment Defects (e.g. ground or aerial Inspections, LiDAR) and/or records of vegetation works scoping, or GIS vegetation density data;
- Field surveys using a sample of maintenance spans within each vegetation management zone to assess the number of mature trees within the maintenance corridor. Sampling must provide a reasonable estimate and consider the nature of maintenance spans in urban versus rural environments in determining reasonable sample sizes.
- Vegetation data such as:
  - the Normalised Difference Vegetation Index (NDVI) grids and maps available from the Bureau of Meteorology (BOM);
  - data from the National Vegetation Information System (VIS data) overlaid on network GIS data to assess the density of vegetation in the direct vicinity of the Maintenance Spans; or
  - similar data from other sources such as Geoscience Australia or commercial suppliers of satellite imagery overlaid on network GIS data records.
- Any other data source based on expert advice.

3.6.4 *Power and Water Corporation* must explain its estimation method in its *basis of preparation*.

3.6.5 *Power and Water Corporation* must report the average number of defects per maintenance span for the *reporting period* and identify in its *basis of preparation* whether it records the total number of defects on each vegetation maintenance span, or whether it records defects on a vegetation maintenance span as one defect, regardless of the number of defects on the span.

### *Other*

3.6.6 The tropical proportion is the approximate total number of urban and rural maintenance spans in the Hot Humid Summer and Warm Humid Summer regions as defined by the Australian Bureau of Meteorology Australian Climatic Zones map (based on temperature and humidity).

3.6.7 The bushfire risk variable is the number of maintenance spans in high bushfire risk areas as classified by a person or organisation with appropriate expertise on fire risk. This includes but is not limited to:

- *Power and Water Corporation's* jurisdictional fire authority
- local councils
- insurance companies
- the *Power and Water Corporation's* consultants
- local fire experts

## 3.7 Safety

### Major safety incidents

- 3.7.1 When reporting a major safety incident *Power and Water Corporation* must report enough information to enable those using the data to understand the nature of the event that resulted in a major safety incident. However, it is not necessary to report detailed information on locations of the incident or roles of people involved.
- 3.7.2 When reporting this data *Power and Water Corporation* may use an alternative definition of major safety incident that aligns with an existing jurisdictional reporting obligation.
- 3.7.3 If the data is reported based on an alternative definition *Power and Water Corporation* must also identify the alternative definition in the *basis of preparation*.

### Safety incidents (excluding major safety incidents)

- 3.7.4 When reporting a safety incident, *Power and Water Corporation* must report enough information to enable those using the data to understand the nature of the event that resulted in the safety incident. However, it is not necessary to report detailed information on locations of the incident or roles of people involved.
- 3.7.5 When reporting this data *Power and Water Corporation* may use an alternative definition of safety incident that aligns with an existing jurisdictional reporting obligation.
- 3.7.6 If the data is reported based on an alternative definition *Power and Water Corporation* must also identify the alternative definition in the *basis of preparation*.

## 4 Workbook - Customer numbers

### 4.1 Total customer numbers

4.1.1 *Power and Water Corporation* must report total customer numbers disaggregated by NMI status; meter classification and energisation. *Power and Water Corporation* must report the disaggregated total customer numbers to enable reconciliation and cross checking of customer number data.

### 4.2 Customers (EB)

4.2.1 *Power and Water Corporation* must report Customers (economic benchmarking) for a *reporting period* calculated as:

- (i) the number of metered customers with active NMIs *Power and Water Corporation's* network in the *reporting period*, where each NMI is counted as a separate customer; both energised and de-energised NMIs must be counted; but extinct NMIs are not to be counted.

plus

- (ii) unmetered customers in *Power and Water Corporation's* network, whose energy usage for billing purposes is calculated using an assumed load profile (examples include bus shelters, security lighting and traffic signals where not metered).

#### Customer numbers by customer type or class

4.2.2 *Power and Water Corporation* must report Customer Numbers in accordance with the category definitions.

4.2.3 *Power and Water Corporation* must report customers against 'Other Customer Numbers' (EB RIN reference: DOPCN0106) only when customers cannot be allocated to the prescribed customer classes.

#### Customer numbers by feeder type

4.2.4 *Power and Water Corporation* must report Customer Numbers in accordance with the category definitions.

### 4.3 Customers (STPIS) by feeder

4.3.1 *Power and Water Corporation* must report customers (STPIS) for a *reporting period* as the number of energised connection points with an Active NMI (including both metered and unmetered customers, but excluding unmetered customers without a NMI).

### 4.4 Customers by tariffs (Cost reflective and non-cost reflective)

**Residential customers**

**Non-residential low voltage customers**

**Non-residential high voltage customers**

- 4.4.1 *Power and Water Corporation* must report customers (tariffs) for a *reporting period* as the number of energised connection points.

## **4.5 Customers – other**

### **Meter provision**

#### **Unmetered customers by class**

- 4.5.1 There are no further instructions.

#### **Customer (export services) numbers**

- 4.5.2 *Power and Water Corporation* must report Customers (export services) as the number of metered customers with an active NMI for a *reporting period*.
- 4.5.3 *Power and Water Corporation* must not include 'Customers on isolated networks' in the disaggregated information reported under customer numbers by feeder classification.

## 5 Workbook – Service performance

### 5.1 Interruptions

#### Interruptions to supply

- 5.1.1 *Power and Water Corporation* must report unrounded data.
- 5.1.2 *Power and Water Corporation* must report both planned and unplanned interruptions to supply.
- 5.1.3 Unless otherwise specified, *Power and Water Corporation* must report reliability data in accordance with the definitions in the AER's Service Target Performance Incentive Scheme (STPIS).
- 5.1.4 For the purposes of calculating reliability, an interruption is any loss of electricity supply to a customer associated with an outage of any part of the electricity supply network, including generation facilities and transmission networks, of more than 0.5 seconds, including outages affecting a single premises. The customer interruption starts when recorded by equipment such as SCADA or, where such equipment does not exist, at the time of the first customer call relating to the network outage. An interruption may be planned or unplanned, momentary or sustained. Subsequent interruptions caused by network switching during fault finding are not to be included. An interruption ends when supply is again generally available to the customer.
- 5.1.5 An unplanned interruption is an interruption due to an unplanned event. An unplanned event is an event that causes an interruption where the customer has not been given the required notice for the interruption or where the customer has not requested the outage.

### 5.2 Call centre

#### Call centre performance/ Daily performance data - unplanned

- 5.2.1 *Power and Water Corporation* must report customer service information in accordance with the definitions of the STPIS.
- 5.2.2 *Power and Water Corporation* must report the total number of calls received excluding:
- (a) Calls to payment lines and automated interactive services; and
  - (b) *Calls abandoned* by the *customer* within 30 seconds of the call being queued for response by a human operator (where the time in which a telephone call is abandoned is not measured, then an estimate of the number of *calls abandoned* within 30 seconds will be determined by taking 20% of all *calls abandoned*).

### 5.3 Other service measures

#### Connections services

#### Complaints

#### Complaints – technical quality of supply

- 5.3.1 There are no additional instructions.

## Guaranteed service levels

5.3.2 *Power and Water Corporation* must identify the GSL scheme or schemes that it must apply, and the administrator/s of the scheme/s. A GSL scheme is any scheme, standard or other arrangement that imposes services obligations on *Power and Water Corporation* and includes a regime for compensating customers for sub-standard performance.

## Instances where GSL not met

5.3.3 *Power and Water Corporation* must report all jurisdiction GSL scheme parameters relevant to it. For each GSL scheme parameter, *Power and Water Corporation* must identify the parameter and any sub-parameters.

5.3.4 *Power and Water Corporation* must only include prescribed payments under the jurisdictional GSL scheme.

## Energy not supplied

5.3.5 *Power and Water Corporation* must report the estimated raw (not normalized) energy not supplied due to planned and unplanned customer interruptions based on average customer demand (multiplied by the number of customers interrupted and the duration of the interruption). Average customer demand must be determined from (in order of preference):

1. average consumption of the customers interrupted based on their billing history;
2. feeder demand at the time of the interruption divided by the number of customers on the feeder;
3. average consumption of customers on the feeder based on their billing history;
4. average feeder demand derived from feeder Maximum Demand and estimated load factor, divided by the number of customers on the feeder.

5.3.6 *Power and Water Corporation* must report Energy not supplied excluding the effect of Excluded Outages.

## Fire starts – unplanned vegetation events

5.3.7 There are no additional instructions.

## Inadequately served customers

5.3.8 *Power and Water Corporation* must report data for the 'Highest unplanned SAIDI of inadequately served customers' and 'Highest unplanned SAIFI of inadequately served customers' for a single customer only (i.e. to report the highest SAIDI and SAIFI experienced by the worst affected single customer).

## Top 5 feeders with most inadequately served customers

5.3.9 For each feeder type, *Power and Water Corporation* must report the network average *unplanned SAIDI* of a network average customer as the *unplanned SAIDI* of the feeder type including excluded events.

## Top 5 zone substations with most inadequately served customers

5.3.10 *Power and Water Corporation* is required to report information on the *Top five zone substations with most inadequately served customers* only if it is unable to report *Top five feeder with most inadequately served customers*.



## 6 Workbook – Operating expenditure

### 6.1 Distribution business

#### Opex category

- 6.1.1 *Power and Water Corporation* must identify any category and report expenditure in that category where the expense in that category is more than five per cent of the total *standard control services operating expenditure*. *Power and Water Corporation* must report debt raising expenditure as a separate category regardless of the amount.
- 6.1.2 Expenditure reported by *Power and Water Corporation* must include all profit margins or management fees paid directly or indirectly to *related party* contractors in the *reporting period*.

#### *Related party margins*

- 6.1.3 *Related party* margin expenditure reported by *Power and Water Corporation* must comprise only profit margins or management fees paid directly or indirectly to *related party* contractors in the *reporting period*.

#### Guaranteed service levels - payments

- 6.1.4 *Power and Water Corporation* must report only prescribed payments under the jurisdictional GSL scheme.
- 6.1.5 *Power and Water Corporation* must report all jurisdiction GSL scheme parameters which are relevant to it. The reported GSL scheme parameters must match those identified in *Data workbook 05 - service performance – Other service measures – instances where GSL not met*.

#### Demand management incentive schemes

- 6.1.6 There are no additional instructions.

#### Overheads expenditure

- 6.1.7 *Power and Water Corporation* must report Overheads expenditure allocated to operating expenditure disaggregated into negotiated and unregulated service categories.

### 6.2 Standard control

#### Opex category

- 6.2.1 Where expenditure in a category of expense is more than five per cent of the total *standard control services operating expenditure* *Power and Water Corporation* must identify the category and report the expenditure. *Power and Water Corporation* must report debt raising expenditure as a separate category regardless of the amount.
- 6.2.2 Expenditure reported by *Power and Water Corporation* must include any profit margins or management fees paid directly or indirectly to *related party* contractors in the *reporting period*.

### *Related party margins*

6.2.3 *Related party* margin expenditure reported by *Power and Water Corporation* must comprise only profit margins or management fees paid directly or indirectly to a *related party* in the *reporting period*.

### **Opex by purpose**

6.2.4 *Power and Water Corporation* must report expenditure against a prescribed purpose on a mutually exclusive and collectively exhaustive basis. Where expenditures could be reported against multiple purposes *Power and Water Corporation* must report the expenditure once – based on its primary purpose.

6.2.5 *Power and Water Corporation* must provide, in its *basis of preparation*, a reconciliation of the total operating expenditure by purpose with the operating expenditure recorded in its Audited Statutory Accounts.

### **Vegetation management**

#### *Total vegetation management*

6.2.6 *Power and Water Corporation* must report vegetation management expenditure for all categories and zones as the total vegetation management expenditure for the *reporting period*.

6.2.7 *Power and Water Corporation* must report expenditure on inspections only where *Power and Water Corporation* inspects solely for the purpose of assessing vegetation. Inspection expenditure for inspections assessing both *Power and Water Corporation's* assets and vegetation should be reported as maintenance expenditure.

### **Maintenance**

#### *Routine maintenance*

#### *Non-routine maintenance*

6.2.8 There are no additional instructions.

### **Emergency response**

6.2.9 There are no additional instructions.

### **Non-network**

#### *ICT*

#### *Motor vehicles*

#### *Buildings and property expenditure*

#### *Other*

6.2.10 *Power and Water Corporation* must report non-network operating expenditure as a direct cost, irrespective of whether such expenditure is also classified to corporate overheads, network overheads or other *operating expenditure* categories. To the extent this results in multiple reporting of expenditures, *Power and Water Corporation* must identify this in its *basis of preparation*, and the reconciliation report required under section 4.18 of this Notice.

## Overheads expenditure

6.2.11 *Power and Water Corporation* must report Overheads expenditure allocated to operating expenditure disaggregated into standard control services.

## 6.2.12 Labour/non-labour expenditure split

6.2.13 *Power and Water Corporation* must not report expenditure for labour incurred under contracts for both goods and services as labour expenditure, other than contracts for the provision of labour (i.e. labour hire contracts).

## Economic benchmarking categories

### *Current opex categories and cost allocation approach*

6.2.14 *Power and Water Corporation* must report *operating expenditure* consistent with its Regulatory Financial Statements. As a consequence, for years where the Cost Allocation Approach and Regulatory Accounting Statements are consistent with those that applied in the most recent completed Regulatory Year, the total *operating expenditure* reported here must equal the total *operating expenditure* reported in *Data workbook 09 – Revenue and financial statements – income statement*.

### *Current cost allocation approach*

6.2.15 The prescribed *operating expenditure* categories are not intended to be mutually exclusive or collectively exhaustive. This means reported totals of *operating expenditure* may be more or less than *Power and Water Corporation's* actual *operating expenditure*. Further, *operating expenditure* may be reported against more than one category.

6.2.16 Where *Power and Water Corporation* reports *operating expenditure* against more than one category, *Power and Water Corporation* must identify this in its *basis of preparation*, and in the reconciliation report required under section 4.18 of this Notice.

## 6.3 Alternative Control

### Opex category

6.3.1 Where expenditure in a category of expense is more than five per cent of the total *alternative control services operating expenditure* *Power and Water Corporation* must identify the category and report the expense.

6.3.2 The expenditure reported by *Power and Water Corporation* must include any profit margins or management fees paid directly or indirectly to *related party* contractors in the *reporting period*.

### *Related party margins*

6.3.3 *Related party* margin expenditure reported by *Power and Water Corporation* must comprise only profit margins or management fees paid directly or indirectly to a *related party* in the *reporting period*.

### Opex by purpose

6.3.4 *Power and Water Corporation* must report expenditure against a prescribed purpose on a mutually exclusive and collectively exhaustive basis. Where expenditures could be

reported against multiple purposes *Power and Water Corporation* must report the expenditure once – based on its primary purpose.

- 6.3.5 *Power and Water Corporation* must provide in its *basis of preparation*, a reconciliation of the total operating expenditure by purpose with the operating expenditure reported in *Data workbook 09 – Revenue and financial statements – income statement*.

### **Overheads expenditure**

- 6.3.6 *Power and Water Corporation* must report Overheads expenditure allocated to operating expenditure disaggregated into the *alternative control services*.

### **Economic benchmarking categories**

#### *Current opex categories and cost allocation approach*

- 6.3.7 *Power and Water Corporation* must report *operating expenditure* consistent with its Regulatory Financial Statements. As a consequence, for years where the Cost Allocation Approach and Regulatory Accounting Statements are consistent with those that applied in the most recent completed Regulatory Year, the total *operating expenditure* reported here must equal the total *operating expenditure* reported in *Data workbook 09 – Revenue and financial statements – income statement*.

#### *Current cost allocation approach*

- 6.3.8 The prescribed *operating expenditure* categories are not intended to be mutually exclusive or collectively exhaustive. This means totals of *operating expenditure* may be more or less than *Power and Water Corporation's* actual *operating expenditure*. Further, *operating expenditure* may be reported against more than one category.
- 6.3.9 Where *Power and Water Corporation* reports *operating expenditure* against more than one category, *Power and Water Corporation* must identify this in its *basis of preparation*, and in the reconciliation report required under section 4.18 of this Notice.

### **Metering activities**

- 6.3.10 The reported *metering services* data must reconcile with internal planning models used by *Power and Water Corporation*.
- 6.3.11 *Power and Water Corporation* must not report expenditures for metering services that have been classified as contestable by the AER.
- 6.3.12 *Power and Water Corporation* must report data only for non-contestable, regulated metering services, including such services performed by third parties on its behalf.

### **Fee based services / Quoted services**

- 6.3.13 The reported fee-based and quoted services data must reconcile with internal planning models used by *Power and Water Corporation*.
- 6.3.14 *Power and Water Corporation* must report against all fee-based and quoted services identified in the annual tariff proposal of each *reporting period*.

## **6.4 New data collections**

### **RIT expenditure**

6.4.1 For each project where *Power and Water Corporation* has incurred expenditure during the *reporting period* relating to a *project* that has undergone a *regulatory investment test for distribution* in accordance with r. 5.17 of the NER and the *AER's Regulatory investment test for distribution application guidelines*, *Power and Water Corporation* must report the following:

- (a) The name of the *project* and the date the *regulatory investment test for distribution* for that project was concluded;
- (b) the cumulative expenditure incurred to date on the *project* in nominal dollars; and
- (c) the cumulative expenditure expected to be incurred over the life of the *project* in nominal dollars.

#### **Contingent project expenditure**

6.4.2 For *projects* the AER has approved as a contingent project in a distribution determination and for which a trigger event has occurred, *Power and Water Corporation* must report operating expenditure incurred on the project during the *reporting period*.

#### **Opex for provision of export services**

6.4.3 There are no additional instructions.

## 7 Workbook – Capital expenditure

7.1.1 *Power and Water Corporation* must report *capital expenditure* on an “as-incurred” basis.

7.1.2 *Power and Water Corporation* must provide in its *basis of preparation* a reconciliation of the total capital and operating expenditure reported in Regulatory Template 2.1 with capital and operating expenditure reported in its Regulatory Accounting Statements and Audited Statutory Accounts.

### 7.2 Distribution business

#### DMIS

#### DMIAM

7.2.1 *Power and Water Corporation* must report expenditures incurred in a *reporting period* on all projects submitted for approval by the AER.

7.2.2 *Power and Water Corporation* must identify in its *basis of preparation* projects submitted to the AER but not approved by the AER.

#### Overheads expenditure

7.2.3 *Power and Water Corporation* must report Overheads expenditure allocated to *capital expenditure* disaggregated into negotiated and unregulated service categories.

7.2.4 The reported *capital expenditure* must include capital contributions.

### 7.3 Standard control services

#### *Capex by purpose (including capital contributions)*

7.3.1 *Power and Water Corporation* must report *capital expenditure* for each *capital expenditure* purpose and must include *capital expenditure* funded via *capital contributions* (i.e. the *capital contributions* must be included as a positive value).

7.3.2 The reported *capital expenditure* purpose categories must match the categories used in *Power and Water Corporation’s* regulatory proposal (set out in the Reset RIN response) for the *reporting period*.

7.3.3 *Power and Water Corporation* must include in reported *capital expenditure* any profit margins or management fees paid directly or indirectly to *related parties* in the *reporting period*.

#### *Related party margin*

7.3.4 *Related party* margin expenditure reported by *Power and Water Corporation* must comprise only profit margins or management fees paid directly or indirectly to a *related party* in a *reporting period*.

#### *Gross capex*

7.3.5 The *capital expenditure* reported for the prescribed purposes must be mutually exclusive and collectively exhaustive. Capital expenditure must be reported on an “as-incurred” basis.

7.3.6 *Power and Water Corporation* must provide in its *basis of preparation* a reconciliation of the total *capital expenditure* reported here with the *capital expenditure* reported in *Power and Water Corporation's Data workbook 08 – asset base – indicative roll forward*.

### **Replacement expenditure**

*Poles / Staking wooden poles / Staked pole replaced with new pole / Pole top structures / Overhead conductors / Underground cables / Service lines / Transformers / Switchgear / SCADA, network control and protection systems / Other*

7.3.7 *Power and Water Corporation* must report data on asset replacement *capital expenditure* by asset class disaggregated into asset sub-categories.

7.3.8 Where *Power and Water Corporation* considers a prescribed asset class does not account for an asset on *Power and Water Corporation's* distribution network, *Power and Water Corporation* must report the asset in the class “Other by business specified category” and must describe the asset in its *basis of preparation*.

7.3.9 Where *Power and Water Corporation* considers a prescribed sub-category does not account for an asset on *Power and Water Corporation's* distribution network, *Power and Water Corporation* must report the asset as “other” under the appropriate asset class and must describe the asset in its *basis of preparation*.

7.3.10 Where *Power and Water Corporation* reports replacement *capital expenditure* associated with asset refurbishments/ life extensions, *Power and Water Corporation* must report the expenditure under the asset class “Other by business specified category” using an equivalent prescribed asset subcategory description followed by the word “refurbished”.

7.3.11 For each row descriptor added in the ‘Other by business specified categories’, *Power and Water Corporation* must report corresponding operational outputs and asset volumes, as per the requirements in Data workbook 02 – Operational outputs and 03 – Network metrics”.

### **Connections**

*Breakdown 1 - New connections – standard control services*

*Breakdown 2*

7.3.12 The reported connection services data must reconcile with internal planning models used by *Power and Water Corporation*.

7.3.13 *Power and Water Corporation* must report expenditure data as a gross amount and must not subtract customer contributions from expenditure data.

7.3.14 *Power and Water Corporation* must report data only for non-contestable, regulated connection services, including such services performed by third parties on its behalf.

7.3.15 *Power and Water Corporation* must report augmentation for connections relating to customer connection requests only. *Power and Water Corporation* must not double count augmentation work; it must be classified by primary purpose as either augmentation or connections works.



## **New Connections - SCS - Capital Contributions - Type 1**

7.3.16 The reported connection services data must reconcile with internal planning models used by *Power and Water Corporation*.

7.3.17 *Power and Water Corporation* must report data only for non-contestable, regulated connection services, including such services performed by third parties on its behalf.

## **Augmentation expenditure**

7.3.18 *Power and Water Corporation* must report all expenditure data on an ‘as incurred’ basis.

7.3.19 *Power and Water Corporation* must not include *augmentation* expenditure relating to *connections*.

## **Non-network**

*Information and communications technology – Recurrent / Non-recurrent*

*Fleet / Property / Other*

7.3.20 *Power and Water Corporation* must report non-network operating expenditure as a direct cost, irrespective of whether that expenditure is also classified as corporate overheads, network overheads or other *operating expenditure* categories. To the extent this results in multiple reporting of expenditures, *Power and Water Corporation* must identify this in its *basis of preparation* and in the reconciliation report required under section 4.18 of this Notice.

7.3.21 When reporting ‘Non-network Other expenditure’, if *Power and Water Corporation* has incurred \$1 million or more (nominal) in *capital expenditure* over the last five regulatory years for a given type or class of asset (e.g. mobile cranes), *Power and Water Corporation* must report that item separately.

## **Overheads expenditure**

7.3.22 *Power and Water Corporation* must report Overheads expenditure allocated to *capital expenditure* disaggregated into standard control services.

## **Labour/non-labour expenditure split**

7.3.23 *Power and Water Corporation* must not report labour used in the provision of contracts for both goods and services as labour expenditure, other than contracts for the provision of labour (i.e. labour hire contracts).

## **Capex by asset class**

*Expenditure by asset class / Movement in provisions allocated to as incurred capex*

7.3.24 *Power and Water Corporation* must report against each *asset class* specified in its current determination as listed in the *AER’s final decision post-tax revenue model*.

7.3.25 Where allocations are based on assumptions *Power and Water Corporation* must explain the allocation method in its *basis of preparation*.

7.3.26 *Power and Water Corporation* must explain in its *basis of preparation* the basis upon which it has reported *movements in capitalised provisions*.

7.3.27 Reported provisions are those that have been included in the associated *capital expenditure*.



7.3.28 *Power and Water Corporation* must report *capital expenditure* funded by *capital contributions* for each asset class and must include the *capital contributions* as a positive value where relevant.

*Immediate expensing of capex (as incurred)*

7.3.29 *Power and Water Corporation* must report *immediate expensing capital expenditure* against each *asset class* specified in its current determination as listed in the AER's final decision *post-tax revenue model*.

7.3.30 Where allocations are based on assumptions *Power and Water Corporation* must explain the allocation method in its *basis of preparation*.

7.3.31 The reported values of *Power and Water Corporation's immediate expensing capital expenditure* by *asset class* incurred within the *reporting period* must be consistent with the value of *immediate expensing capital expenditure* that has been or will be included in the income tax returns lodged by *Power and Water Corporation*, whether Federal or NTER, for the *reporting period*. Where, as a result of the ATO's decision-making process these values change, *Power and Water Corporation* must report the updated values to the AER through a *RIN* resubmission.

*Disposals by asset class*

7.3.32 *Power and Water Corporation* must report *disposal by asset class* against each *asset class* specified in its current determination as listed in the AER's final decision *post-tax revenue model*.

**Capital contributions by asset class**

*Type 1 capital contribution by asset class*

7.3.33 *Power and Water Corporation* must report each *Type 1 capital contribution* against each *asset class* specified in its current determination as listed in the AER's final decision *post-tax revenue model*.

*Type 2 capital contribution by asset class*

7.3.34 There are no additional instructions.

**Capital contributions by asset class**

7.3.35 Where reported gross *capital expenditure* by purpose includes capital contributions, *Power and Water Corporation* must identify type 1 and type 2 capital contributions included in the amount.

## 7.4 ACS

**Capex by purpose**

7.4.1 *Power and Water Corporation* must report *capital expenditure* for each *capital expenditure* purpose including expenditure funded via *capital contributions* and must include *capital contributions* as a positive value where relevant.

7.4.2 The reported *capital expenditure* purpose categories must match the categories used by *Power and Water Corporation* in its regulatory proposal (set out in the Reset RIN response) for the *reporting period*.

7.4.3 *Power and Water Corporation* must include any profit margins or management fees paid directly or indirectly to *related party* for the *reporting period*.

*Related party margin*

7.4.4 Reported '*related party margin expenditure*' must comprise only profit margins or management fees paid directly or indirectly to *related parties* for the *reporting period*.

**Overheads expenditure**

7.4.5 *Power and Water Corporation* must report Overheads expenditure allocated to *capital expenditure* disaggregated into alternative control services.

**Alternative control services capex**

*Capital contributions by asset class*

7.4.6 Where reported gross *capital expenditure* by purpose includes capital contributions, *Power and Water Corporation* must report type 1 and type 2 capital contributions included in amount.

*Metering activities*

7.4.7 The reported metering services data must reconcile with internal planning models used by *Power and Water Corporation*.

7.4.8 *Power and Water Corporation* must report data only for non-contestable, regulated metering services, including such services performed by third parties on its behalf.

7.4.9 *Power and Water Corporation* must not report data for metering services classified as contestable by the AER.

*Fee based services / Quoted services*

7.4.10 The reported fee-based and quoted services data must reconcile with internal planning models used by *Power and Water Corporation*.

7.4.11 *Power and Water Corporation* must report fee-based and quoted services data as listed in the annual tariff proposal of each relevant year.

## **7.5 New data collections**

**RIT expenditure**

7.5.1 For each *project* where *Power and Water Corporation* has incurred expenditure during the *reporting period* relating to a *project* that has undergone a *regulatory investment test for distribution* in accordance with r. 5.17 of the *NER* and the *AER's Regulatory investment test for distribution application guidelines*, *Power and Water Corporation* must report the following:

- (a) The name of the *project* and the date the *regulatory investment test for distribution* process for that project was concluded;
- (b) whether the expenditure on the *project* is classified as augmentation expenditure or replacement expenditure;
- (c) the cumulative expenditure incurred to date on the *project* in nominal dollars; and

- (d) the cumulative expenditure expected to be incurred over the life of the *project* in nominal dollars.

**Contingent project expenditure**

7.5.2 For *projects* the AER has approved as contingent projects in a distribution determination and for which a trigger event has occurred, *Power and Water Corporation* must report operating expenditure incurred on the project during the *reporting period*.

**Capex for provision of export services**

7.5.3 There are no additional instructions.

## 8 Workbook – Asset base values

### 8.1 Standard control

#### Asset base values

##### *Benchmarking asset base*

8.1.1 *Power and Water Corporation* must report benchmarking asset base values in accordance with the standard approach and the Assets (RAB) Financial Reporting Framework set out in the economic benchmarking RIN.<sup>1</sup>

8.1.2 Standard Control Services benchmarking asset base values must reconcile with:

- For years where the AER has made a decision on values for the RAB, the RAB values in that decision, unless that decision incorporates forecasts (for example, additions for the last year of the previous regulatory period).
- For years where the AER has made a decision on values for the RAB that incorporates forecasts, the forecast values should be replaced with actual values where possible. Actual values must reconcile to amounts reported in the *Indicative asset base roll forward* information; or
- For years where the AER has not made a decision on values for the RAB, RAB values must be prepared in accordance with the Assets (RAB) Financial Reporting Framework. In this circumstance, actual additions (recognised in the RAB) and disposals must reconcile to amounts reported in the *Indicative asset base roll forward* information.

*Indicative total regulatory asset base roll forward (within period)*

*Indicative total tax asset base roll forward (within period)*

8.1.3 *Power and Water Corporation* must report the required data in accordance with the AER's Roll Forward Model and the definitions in *Data workbook 08 - Asset base values*.

#### SCS Benchmarking asset base by asset group

8.1.4 *Power and Water Corporation* must disaggregate benchmarking asset base data consistent with the instructions for the benchmarking asset base in sections 8.1.1 to 8.1.2, and the definitions of each asset group.

8.1.5 *Power and Water Corporation* must report values for substation land in the 'substation asset' category. Individual values for substation land may be identified in the *basis of preparation*.

<sup>1</sup> See AER website at:

<https://www.aer.gov.au/system/files/3.%20AER%20economic%20benchmarking%20RIN%20for%20distribution%20network%20service%20providers%20%E2%80%93%20Instructions%20and%20Definitions%20-%20Sample.pdf>

## 8.2 Alternative control

### Asset base values

#### *Benchmarking asset base*

8.2.1 *Power and Water Corporation* must report benchmarking asset base values in accordance with the standard approach and the Assets (RAB) Financial Reporting Framework set out in the economic benchmarking RIN<sup>2</sup> .

8.2.2 Alternative Control Services benchmarking asset base values must reconcile with:

- For years where the AER has made a decision on values for a RAB for assets that report alternative control services, the RAB values in that decision, unless that decision incorporates forecasts (for example, additions for the last year of the previous regulatory period).
- For years where the AER has made a decision on values for a RAB for assets that report alternative control services that incorporates forecasts, the forecast values should be replaced with actual values where possible. Actual values must reconcile to amounts reported in the *Indicative asset base roll forward* information; or
- For years where the AER has not made a decision on values for a RAB for assets that report alternative control services, RAB values must be prepared in accordance with the Assets (RAB) Financial Reporting Framework. In this circumstance, actual additions (recognised in the RAB) and disposals must reconcile to amounts reported in the *Indicative asset base roll forward* information.

#### *Indicative metering asset base roll forward (within period)*

8.2.3 *Power and Water Corporation* must report the required information in accordance with the AER's Roll Forward Model, and the definitions in *Data workbook 08 - Asset base values*.

### ACS Benchmarking asset base by asset group

8.2.4 *Power and Water Corporation* must report the disaggregated benchmarking asset base consistent with the instructions for the benchmarking asset base in sections 8.2.1 to 8.2.2, and the definitions of each asset group.

## 8.3 Network services

### Asset base values

#### *Benchmarking asset base*

<sup>2</sup> See AER website at:

<https://www.aer.gov.au/system/files/3.%20AER%20economic%20benchmarking%20RIN%20for%20distribution%20network%20service%20providers%20%E2%80%93%20Instructions%20and%20Definitions%20-%20Sample.pdf>

8.3.1 *Power and Water Corporation* must report benchmarking asset base values in accordance with the standard approach and the Assets (RAB) Financial Reporting Framework set out in the economic benchmarking RIN<sup>3</sup>.

8.3.2 Network Services benchmarking asset base values must reconcile with:

- For years where the AER has made a decision on values for a RAB for assets that report network services, the RAB values in that decision, unless that decision incorporates forecasts (for example, additions for the last year of the previous regulatory period).
- For years where the AER has made a decision on values for a RAB for assets that report network services that incorporates forecasts, the forecast values should be replaced with actual values where possible. Actual values must reconcile to amounts reported for standard control services or alternative control services; or
- For years where the AER has not made a decision on values for a RAB for assets that report network services, RAB values must be prepared in accordance with the Assets (RAB) Financial Reporting Framework. In this circumstance, actual additions (recognised in the RAB) and disposals must reconcile to amounts reported for standard control services or alternative control services.

#### **Network services benchmarking asset base by asset group**

8.3.3 *Power and Water Corporation* must report disaggregated benchmarking asset base values consistent with the instructions for the benchmarking asset base in sections 8.3.1 to 8.3.2 and the definitions of each asset group.

<sup>3</sup> See AER website at:

<https://www.aer.gov.au/system/files/3.%20AER%20economic%20benchmarking%20RIN%20for%20distribution%20network%20service%20providers%20%E2%80%93%20Instructions%20and%20Definitions%20-%20Sample.pdf>

## 9 Workbook – Revenue and financial statements

### 9.1 Distribution business

#### Income statement

#### Jurisdictional scheme payments

#### Cross boundary expenditures

#### Demand management incentive scheme

9.1.1 The data requirements are set out in *Data workbook 09 – Revenue and financial statements*, with additional context provided by the general instructions in this document. There are no additional instructions.

### 9.2 Standard control

#### Income statement

#### Jurisdictional scheme payments

9.2.1 The data requirements are set out in *Data workbook 09 – Revenue and financial statements*, with additional context provided by the general instructions in this document. There are no additional instructions.

#### Profitability – Tax data

#### Ownership structure

9.2.2 *Power and Water Corporation* must identify its ownership structure as a:

- a) Private sector entity which is taxed as a company; or
- b) NTER entity; or
- c) government owned entity not reporting under the NTER; or
- d) flow-through entity.

9.2.3 *Power and Water Corporation* must identify itself as a flow-through entity where *Power and Water Corporation* is a flow-through entity in which an NTER entity or a government entity not reporting under the NTER holds an interest in *Power and Water Corporation's* assets.

Note: If the ownership structure of *Power and Water Corporation* has changed during the *reporting period* (due to a privatisation, acquisition or restructure), *Power and Water Corporation* should identify the structure that was applicable for the majority of the reporting period. *Power and Water Corporation* must note the change of ownership structure in its *basis of preparation*.

9.2.4 Where *Power and Water Corporation* is a flow-through entity for the *reporting period*, *Power and Water Corporation* must report a blended tax rate.

Note: To determine the appropriate tax rate for *Power and Water Corporation* as a flow-through entity, we request the determination of a blended tax rate that represents the applicable Australian income tax rates for the initial recipients of *Power and Water Corporation's* profits. The blended tax rate calculation must not include any foreign taxes which may apply to distributions received by *Power and Water Corporation's*



investors (e.g. dividends, return on tax equity instruments, partnership distributions and trust distributions).

9.2.5 *Power and Water Corporation's* tax rate must be determined by *Power and Water Corporation's* ownership structure. The applicable tax rate/s are:

- a) for privately owned corporate structures – 30%;
- b) for NTER entities – 0% and 30%;
- c) for government entities not reporting under the NTER – 0% and 30%;
- d) for flow-through entities – the blended tax rate reported in section 9.2.4;
- e) for flow-through entities in which a NTER entity or a government entity not reporting under the NTER hold an interest in the network service provider's assets – the blended tax rate calculated in accordance with section 9.2.3.

#### *Tax related information*

9.2.6 *Power and Water Corporation* must report the tax depreciation of *Power and Water Corporation's* TAB. This must reconcile with:

- a) the applicable final decision that the AER has made in relation to the historical tax depreciation of *Power and Water Corporation's* TAB; or
- b) where the AER has not made a final decision in relation to the historical tax depreciation of *Power and Water Corporation's* TAB:
  - i. any historical depreciation of *Power and Water Corporation's* TAB provided by the *Power and Water Corporation* in a revised regulatory proposal for a regulatory determination; or if not available
  - ii. any draft decision that the AER has made in relation to the historical tax depreciation of *Power and Water Corporation's* TAB; or if not available
  - iii. any historical depreciation of *Power and Water Corporation's* TAB provided by *Power and Water Corporation* in an initial regulatory proposal for a regulatory determination; or if not available
  - iv. an estimate of *Power and Water Corporation's* actual TAB depreciation based on a TAB from the most recent applicable final decision PTRM updated for actual *capital expenditure* and CPI.

#### *Taxable income adjustments*

9.2.7 *Power and Water Corporation* must report any cumulative carried forward tax losses from the provision of core regulated services from the prior *reporting period*.

9.2.8 Where *Power and Water Corporation* has recognised any cumulative carried forward tax losses from the provision of core regulated services from the prior *reporting period* it must explain in its *basis of preparation* the factors that have resulted in the generation of the carried forward tax losses.

9.2.9 *Power and Water Corporation* must report the total taxable revenue and/or income for customer contributions and/or gifted assets.



9.2.10 *Power and Water Corporation* must report any permanent differences from disallowed interest expenditure – these are self-assessed. This is interest expenditure, that is non-deductible for tax purposes pursuant to the Income Tax Assessment Act 1997.

9.2.11 *Power and Water Corporation* must report any permanent differences from adjustments to prior year returns. This can occur when:

- a) a prior year's income tax assessments for the network service provider are amended following dispute with the Australian Tax Office or a change in legislation (such as court judgement);
- b) the revenues or expenditure relating to the amendment is within the regulatory ring-fence; and
- c) the adjustment resulting from the amendment is permanent in nature.

#### *Interest expense (Debt and equity)*

9.2.12 *Power and Water Corporation* must report the interest-bearing liabilities held by *Power and Water Corporation* at the beginning of the *reporting period* and used to fund the operation of, and investment into, its core regulated services;

9.2.13 *Power and Water Corporation* must report the total interest expense incurred during the *reporting period*. *Power and Water Corporation* must calculate its actual interest expenditure arising from interest bearing liabilities used to fund the operation of, and investment into its core regulated services.

9.2.14 *Power and Water Corporation* must report the interest expense paid to a *related party* of *Power and Water Corporation* during the *reporting period*.

#### **Disaggregated Revenue**

9.2.15 *Power and Water Corporation* must report revenues against the categories prescribed in the *data workbooks*.

9.2.16 *Power and Water Corporation* must report revenues by chargeable quantity and by customer class. The reported revenues by chargeable quantity must equal the total of revenues by customer class. *Power and Water Corporation* must also report separately revenues received or deducted as a result of incentive schemes.

9.2.17 *Power and Water Corporation* must report '0' values against categories that have no effect on the revenues of *Power and Water Corporation*. For instance, if *Power and Water Corporation* does not use a shoulder period for Energy Delivery charges then the amount of revenue reported must be '0'.

9.2.18 The reported revenues must reconcile with and be in accordance with the requirements of revenues reported in the Income statement.

#### *Revenue grouping by chargeable quantity*

9.2.19 *Power and Water Corporation* must report revenues against the chargeable quantity that most closely reflects the basis upon which the revenue was charged by *Power and Water Corporation* to customers.

9.2.20 Where *Power and Water Corporation* cannot report revenue against a prescribed category it must report that revenue against 'Revenue from other Sources' (EB RIN reference: DREV0113).

### *Revenue grouping by customer type or class*

9.2.21 *Power and Water Corporation* must report revenues against the customer types that most closely reflect the customers from which *Power and Water Corporation* received its revenue.

9.2.22 Where *Power and Water Corporation* cannot report revenue against the prescribed customer types it must report that revenue against 'Revenue from other Customers' (EB RIN reference: DREV0206).

### *Revenue rewards and penalties – Incentive schemes*

9.2.23 *Power and Water Corporation* must report the penalties or rewards from incentive schemes. *Power and Water Corporation* must report any penalties or rewards from the schemes applied by previous jurisdictional regulators that are equivalent to the service target performance incentive scheme (STPIS) or efficiency benefit sharing scheme (EBSS) against 'STPIS' or 'EBSS' as appropriate.

9.2.24 Revenues reported must reflect the effect on revenues of incentive schemes in the year that the penalty or reward is applied (as opposed to when it was earned which depending on the scheme may be in earlier years). For instance, if *Power and Water Corporation* is rewarded extra revenues for performance in 2019 and gains these revenues in 2021 these revenues must be reported in the 2021 year only.

## **9.3 ACS**

### **Income statement**

9.3.1 The data requirements are set out in *Data workbook 09 – Revenue and financial statements*, with additional context provided by the general instructions in this document. There are no additional instructions.

### **Revenue grouping by chargeable quantity**

9.3.2 *Power and Water Corporation* must report revenues against the chargeable quantity that most closely reflects the basis upon which the revenue was charged by *Power and Water Corporation* to customers.

9.3.3 Where *Power and Water Corporation* cannot report revenue against a prescribed it must report that revenue against 'Revenue from other Sources' (EB RIN reference: DREV0113).

### *Revenue grouping by customer type or class*

9.3.4 *Power and Water Corporation* must report revenues against the customer types that most closely reflect the customers from which *Power and Water Corporation* received its revenue.

9.3.5 Where *Power and Water Corporation* cannot report revenue against the prescribed customer types it must report that revenue against 'Revenue from other Customers' (EB RIN reference: DREV0206).

## **9.4 Other services**

### **Income statement**

9.4.1 The data requirements are set out in *Data workbook 09 – Revenue and financial statements*, with additional context provided by the general instructions in this document. There are no additional instructions.

#### **Overheads expenditure**

9.4.2 *Power and Water Corporation* must report total overheads disaggregated into negotiated services and unregulated services.

### **9.5 Total expenditure**

#### **Input expenditure category - All**

9.5.1 The information requirements are set out in *Data workbook 09 – Revenue and financial statements*, with additional context provided by the general instructions in this document. There are no additional instructions.

### **9.6 Provisions**

9.6.1 *Power and Water Corporation* must report total provisions for Standard Control Services in accordance with the requirements of the Cost Allocation Approach and the Regulatory Accounting Statements that were in effect for the *reporting period*.

9.6.2 *Power and Water Corporation* must report data for each of its individual provisions. A provision is an account which records a specific present liability of an entity to another entity. Examples of provision accounts include employee entitlements, doubtful debts and uninsured losses.

9.6.3 *Power and Water Corporation* must report provisions for the *reporting period* in accordance with the principles and policies of the Annual Reporting Requirements.

## 10 Workbook – Prices

### 10.1 Connections

#### Connections

- 10.1.1 *Power and Water Corporation* must report connection services data that reconciles to internal planning models used by *Power and Water Corporation*.
- 10.1.2 *Power and Water Corporation* is not required to disaggregate expenditure for connection services into standard or alternative control services.
- 10.1.3 *Power and Water Corporation* is not required to disaggregate expenditure for connection services into either *capital expenditure* or *operating expenditure*.
- 10.1.4 *Power and Water Corporation* must report expenditure data as a gross amount and must not subtract customer contributions from expenditure data.
- 10.1.5 *Power and Water Corporation* must report data only for non-contestable, regulated connection services, including such services performed by third parties on its behalf.