

Schedule 1: 1. Provide Information

1.3 Provide any proposed changes to TransGrid's approved cost allocation methodology.

TransGrid has submitted a new Cost Allocation Methodology (CAM) to the AER on 14 December 2016. The revised CAM has been updated to reflect organisation ownership changes and other administrative matters, however there is no in principle change from the existing CAM approach.

1.4 Provide for the purposes of the preparation of the revenue proposal:

(a) all consultants' reports commissioned and relied upon in whole or in part;

Document Name

TransGrid-Aurecon-Appendix E Independent review of TransGrids Capex Plan-0117-PUBLIC.pdf

TransGrid-Aurecon-Appendix O 1617 Asset maintenance assurance-1216-PUBLIC.pdf

TransGrid-BIS Shrapnel-Appendix H Expected wage changes-1116-PUBLIC.pdf

TransGrid-CEB-Appendix P IT benchmark report-1016-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix F Review of the MTFP and MPFP analysis in the AERs 2016 annual benchmarking report-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix J Opex forecast starting point-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix Q An equity beta estimate for the benchmark efficient entity-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix R Low_beta Bias-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix S The Market Risk Premium-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix T Return on debt transition letter-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix U An updated dividend drop_off estimate of theta-0117-PUBLIC.pdf

TransGrid-Frontier Economics-Appendix V Estimating gamma for regulatory purposes-0117-PUBLIC.pdf

TransGrid-GHD-Appendix I Ausgrid Connection Point Forecasts-0816-PUBLIC.pdf

TransGrid-Herbert Smith Freehills-Appendix K Operating expenditure advice-0117-PUBLIC.pdf

TransGrid-Incenta-Appendix L Debt Raising Cost TransGrid 2018_19 to 2022_23 Revenue Determination-0117-PUBLIC.pdf

TransGrid-KPMG-Appendix N 2016 Utilities Benchmarking-0117-CONFIDENTIAL.pdf

TransGrid-UMS Group-Appendix M ITOMS blind benchmarking report-0116-PUBLIC.pdf

TransGrid-WSP Parsons Brinckerhoff-Appendix X STPIS_Fitting Probability distribution curves to reliability data-

Document Name

1016-PUBLIC.pdf

TransGrid-Aurecon-Risk Audit-0515-CONFIDENTIAL.pdf

TransGrid-Aurecon-Risk Audit-0515-PUBLIC.pdf

TransGrid-Herbert Smith Freehills-NSW Transmission Lease-1215-PUBLIC.pdf

TransGrid-PwC-Reset RIN Independent Auditors Report-0117-PUBLIC.pdf

TransGrid-EY-TransGrid load databook-1016-CONFIDENTIAL.xlsx

TransGrid-Evans & Peck-CAM Model Functional Specification-1012-PUBLIC.pdf

TransGrid-EY-Report to TransGrid on Load Developments-1016-PUBLIC.pdf

TransGrid-EY-TransGrid load databook-1016-PUBLIC.xlsx

TransGrid-GHD-Powering Sydneys Future Inner Sydney Demand Forecast-1016-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Bayswater-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Cowra-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Dapto-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Mt Piper-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Newcastle-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Sydney East-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Sydney North-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Sydney South-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Tumut-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Wallerawang-0516-PUBLIC.pdf

TransGrid-Knight Frank-Building Condition Report Wellington-0516-PUBLIC.pdf

TransGrid-Incenta-TransGrid DRC-0514-PUBLIC.pdf

TransGrid-Frontier Economics-An updated dividend drop_off estimate of theta-0916-PUBLIC.pdf

TransGrid-SFG-Alternative versions of the dividend discount model and the implied cost of equity-0514-PUBLIC.pdf

TransGrid-SFG-An Appropriate Regulatory Estimate of Gamma-0514-PUBLIC.pdf

(b) all material assumptions relied upon; and

See response to 1.5

(c) a table that references each response to a paragraph in this Schedule 1 and where it is provided in or as part of the revenue proposal, proposed pricing methodology and negotiating framework;

Reference	Final RIN Content	Document Name
1. Provide Information 1.1	1.1 Provide the information required in each regulatory template in the Microsoft Excel Workbooks attached at Appendix A completed in accordance with: (a) this notice; (b) the instructions in the Microsoft Excel Workbooks attached at Appendix A; (c) the instructions in Appendix E; and (d) TransGrid's approved cost allocation methodology.	<ul style="list-style-type: none">• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template -0117- PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2010-0117- PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2011- 0117 -PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2012-0117- PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2013-0117- PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2014- 0117 -PUBLIC• TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2015 -0117

Reference	Final RIN Content	Document Name
		-PUBLIC <ul style="list-style-type: none"> TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2016 -0117 -PUBLIC
1. Provide Information 1.2	1.2 For all information, other than forecast information, provide in accordance with this notice and the instructions in Appendix E, a basis of preparation demonstrating TransGrid has complied with this notice, in respect of: (a) the information in each regulatory template in the Microsoft Excel Workbooks attached at Appendix A; and (b) any other information prepared in accordance with the requirements of this notice.	<ul style="list-style-type: none"> TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC
1. Provide Information 1.3	1.3 Provide any proposed changes to TransGrid's approved cost allocation methodology.	<ul style="list-style-type: none"> TransGrid-RIN Response General-0117-PUBLIC (this document)
1. Provide Information 1.4	1.4 Provide for the purposes of the preparation of the revenue proposal: (a) all consultants' reports commissioned and relied upon in whole or in part; (b) all material assumptions relied upon; and (c) a table that references each response to a paragraph in this Schedule 1 and where it is provided in or as part of the revenue proposal, proposed pricing methodology and negotiating framework; (d) a table that references each document provided in or as part of the revenue proposal, proposed pricing methodology or negotiating framework and its relationship to other documents provided; (e) each document identified in paragraph 1.4(d) must be given a meaningful filename in the form: TransGrid – [Author] – [title] – [date] – [public/confidential], where: (i) Author is the author of the file if not TransGrid, for example a consultant or other third party; (ii) Title provides a meaningful description of the content of document, with limited reliance on acronyms or cross references, for example "Appendix 1A" is not meaningful, but "Appendix 1A – Cost allocation method" is; (iii) Date is a relevant date associated with the file, generally the date the document was created; and (iv) Public/confidential identifies if the file in its entirety can be published (public); or if it contains any information which is the subject of a claim for confidentiality in accordance with paragraph 26 of this notice (confidential).	<ul style="list-style-type: none"> TransGrid-RIN Response General-0117-PUBLIC (this document)
1. Provide Information 1.5	1.5 Provide for each material assumption identified in the response to paragraph 1.4(b): (a) its source or basis; (b) if applicable, its quantum; (c) whether and how the assumption has been applied and was taken into account; and (d) the effect or impact of the assumption on the capital and operating expenditure forecasts in the forthcoming regulatory control period taking into account: (i) the actual expenditure incurred during the current regulatory control period; and (ii) the sensitivity of the forecast expenditure to the assumption.	<ul style="list-style-type: none"> TransGrid-RIN Response General-0117-PUBLIC (this document)
1. Provide Information 1.6	1.6 Provide reconciliation of the capital and operating expenditure forecasts provided in the regulatory templates to the ex-ante capital and operating allowances in the Post-Tax Revenue Model for the forthcoming regulatory control period.	<ul style="list-style-type: none"> TransGrid-RIN Response General-0117-PUBLIC (this document)

Reference	Final RIN Content	Document Name
1. Provide Information 1.7	1.7 Where the revenue proposal varies or departs from the application of any component or parameter of the efficiency benefit sharing scheme, capital expenditure sharing scheme or service target performance incentive scheme, for each variation or departure explain: (a) the reasons for the variation or departure, including why the departure is appropriate; (b) how the variation or departure aligns with the objectives contained in the relevant scheme; and (c) how the proposed variation or departure will impact the operation of the relevant scheme.	<ul style="list-style-type: none"> TransGrid-RIN Response General-0117-PUBLIC (this document)
2. Services Provided by TransGrid 2.1	2.1 Provide: (a) the name and a brief description of each category of prescribed transmission service provided by TransGrid that is the subject of the revenue proposal. (b) a brief description of the required quality, reliability and security of supply of each category of prescribed transmission service provided by TransGrid. (c) a brief description of the required reliability, safety and security of the transmission system provided by TransGrid in the supply of prescribed transmission services.	<ul style="list-style-type: none"> TransGrid-RIN Response Services-0117-PUBLIC
3. Step Changes 3.1	3.1 For all step changes in forecast expenditure (including those due to changes in regulatory obligations or requirements and those due to changes in TransGrid's own policies and strategies) provide: (a) In Workbook 1 – regulatory determination, regulatory template 2.17, the quantum of the step change: (i) forecast in each year of the forthcoming regulatory control period; and (ii) expected to be incurred, in the current regulatory control period; (b) a description of the step change.	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
3. Step Changes 3.2	3.2 For each step change listed in response to paragraph 3.1 provide an explanation of: (a) when the change occurred, or is expected to occur; (b) what the driver of the step change is; (c) how the driver has changed or will change (for example, revised legislation may lead to a change in a regulatory obligation or requirement); and (d) whether the step change is recurrent in nature.	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
3. Step Changes 3.3	3.3 For each step change listed in response to paragraph 3.1 provide justification for when, and how, the step change affected, or is expected to affect: (a) the relevant opex category; (b) the relevant capex category; (c) total opex; and (d) total capex.	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]

Reference	Final RIN Content	Document Name
3. Step Changes 3.4	<p>3.4 For each step change listed in response to paragraph 3.1 provide the process undertaken by TransGrid to identify and quantify the step change; provide cost benefit analysis that demonstrates TransGrid proposes to address the step change in a prudent and efficient manner, including:</p> <p>(a) the timing of the step change; and</p> <p>(b) if TransGrid considered a 'do nothing' option, evidence of how TransGrid assessed the risks of this option compared with other options.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
3. Step Changes 3.5	<p>3.5 For each step change listed in response to paragraph 3.1 where the step change is due to a change in a regulatory obligation or requirement, provide:</p> <p>(a) relevant variations or exemptions granted to TransGrid during the previous regulatory control period or the current regulatory control period;</p> <p>(b) relevant compliance audits TransGrid conducted during the previous regulatory control period or the current regulatory control period.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
3. Step Changes 3.6	<p>3.6 For each step change listed in response to paragraph 3.5 provide, with reference to specific clauses of the relevant legislative instrument(s), the:</p> <p>(a) previous regulatory obligation or requirement; and</p> <p>(b) changed regulatory obligation or requirement that is driving the step change.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Step Changes-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
4. Capital Expenditure 4.1	<p>4.1 Provide justification for TransGrid's total forecast capex, including:</p> <p>(a) why the total forecast capex is required for TransGrid to achieve each of the objectives in clause 6A.6.7(a) of the NER;</p> <p>(b) how TransGrid's total forecast capex reasonably reflects each of the criteria in clause 6A.6.7(c) of the NER;</p> <p>(c) how TransGrid's total forecast capex accounts for the factors in clause 6A.6.7(e) of the NER;</p> <p>(d) an explanation of how the plans, policies, procedures and regulatory obligations or requirements identified in regulatory templates 7.1 and 7.3 in Workbook 1 – regulatory determination, consultants reports, and assumptions identified in paragraph 1.4 have been incorporated; and</p> <p>(e) an explanation of how each response provided to paragraph 4.1(a) to (d) above is reflected in any increase or decrease in expenditures or volumes, particularly between the current and forthcoming regulatory control periods, provided in regulatory templates 2.1 to 2.10 in Workbook 1 – regulatory determination.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Capex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.1, 7.1, 7.3]

Reference	Final RIN Content	Document Name
4. Capital Expenditure 4.2	<p>4.2 Provide the model(s) and methodology TransGrid used to develop its total forecast capex, including:</p> <p>(a) a description of how TransGrid prepared the forecast capex, including:</p> <p>(i) how its preparation differed or related to budgetary, planning and governance processes used in the normal running of TransGrid's business;</p> <p>(ii) the processes for ensuring amounts are free of error and other quality assurance steps; and</p> <p>(iii) if and how TransGrid considered the resulting amounts, when translated into price impacts, were in the long term interest of consumers;</p> <p>(b) any source material used (including models, documentation or any other items containing quantitative data); and</p> <p>(c) all calculations that demonstrate how data from the source material has been manipulated or transformed to generate data provided in the regulatory templates in Workbook 1 – regulatory determination.</p>	<ul style="list-style-type: none"> • TransGrid-RIN Response Capex-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.1]
4. Capital Expenditure 4.3	<p>4.3 Identify which items of TransGrid's forecast capex have been:</p> <p>(a) derived directly from competitive tender processes;</p> <p>(b) based upon competitive tender processes for similar projects;</p> <p>(c) based upon estimates obtained from contractors or manufacturers;</p> <p>(d) based upon independent benchmarks;</p> <p>(e) based upon actual historical costs for similar projects; and</p> <p>(f) reflective of any amounts for risk, uncertainty or other unspecified contingency factors, and if so, how these amounts were calculated and deemed reasonable.</p>	<ul style="list-style-type: none"> • TransGrid-RIN Response Capex-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.1]
4. Capital Expenditure 4.4	<p>4.4 Provide all documents which were materially relied upon and relate to the deliverability of forecast capex and explain the proposed deliverability.</p>	<ul style="list-style-type: none"> • TransGrid-RIN Response Capex-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.1]
4. Capital Expenditure 4.5	<p>4.5 Describe each capex category and expenditures comprising these categories identified in the regulatory templates, including:</p> <p>(a) key drivers for expenditure;</p> <p>(b) an explanation of how expenditure is distinguished between:</p> <p>(i) demand driven and non-demand driven augmentation capital expenditure;</p> <p>(ii) connections capital expenditure and augmentation capital expenditure;</p> <p>(iii) replacement capital expenditure driven by condition and asset replacements driven by other drivers (e.g. the need for demand or non-demand driven augmentation capital expenditure); and</p> <p>(iv) any other capex category or opex category where TransGrid considers that there is reasonable scope for ambiguity in categorisation.</p>	<ul style="list-style-type: none"> • TransGrid-RIN Response Capex-0117-PUBLIC
5. Replacement Capital Expenditure Modelling 5.1	<p>5.1 In relation to information provided in Workbook 1 – regulatory determination, regulatory template 2.2 with respect to the AER's repex model, provide:</p> <p>(a) For individual asset categories set out in the regulatory templates, provide in a separate document:</p> <p>(i) a description of the asset category, including:</p> <p>(A) the assets included and any boundary issues (i.e. with other asset categories);</p> <p>(B) an explanation of how these matters have been accounted for in determining quantities in the age profile;</p>	<ul style="list-style-type: none"> • TransGrid-RIN Response Repex-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice

Reference	Final RIN Content	Document Name
	<p>(C) an explanation of the main drivers for replacement (e.g. condition, etc.); and</p> <p>(D) an explanation of whether the replacement unit cost provides for a complete replacement of the asset, or some other activity, including an extension of the asset's life and whether the costs of this extension or other activity are capitalised or not.</p> <p>(ii) an estimate of the proportion of assets replaced for each year of the current regulatory period, due to:</p> <p>(A) aging of existing assets (e.g. condition, obsolesce, etc.) that should be largely captured by this form of replacement modelling;</p> <p>(B) replacements due to other factors (and a description of those factors);</p> <p>(C) additional assets due to the augmentation, extension, development of the network; and</p> <p>(D) additional assets due to other factors (and a description of those factors).</p> <p>5.1 (b) For the previous, current and forecast regulatory control periods, explain the drivers or factors that have affected changing network replacement capital expenditure requirements. Identify and quantify the relative effect of individual matters within the following categories:</p> <p>(i) rules, codes, licence conditions, statutory requirements;</p> <p>(ii) internal planning and asset management approaches;</p> <p>(iii) measurable asset factors that affect the need for expenditure in this category (e.g. age profiles, risk profiles, condition trend, etc.).</p> <p>Identify and quantify individual factors;</p> <p>(iv) the external factors that can be forecast and the outcome measured (e.g. demand growth, customer numbers) that affect the need for expenditure in this category. Identify and quantify individual factors, covering the forecasts and the outcome (external factors required to be discussed here do not relate to changing obligations which are covered in paragraphs 3.5 and 3.6);</p> <p>(v) technology/solutions to address needs, covering:</p> <p>(A) network; and</p> <p>(B) non-network;</p> <p>(vi) any other significant matters.</p> <p>The information provided above should at least distinguish between the asset categories defined in response to paragraph 5.1(a).</p> <p>(vii) Identify and provide information or documentation to justify and support any responses to paragraph 5.1(b)(i)-(vi).</p>	<p>Template -0117-PUBLIC [Tab 2.2]</p>
6. Demand Forecasts 6.1	6.1 Provide and describe the methodology used to prepare the maximum demand forecasts.	<ul style="list-style-type: none"> TransGrid-RIN Response Demand Forecast-0117-PUBLIC
6. Demand Forecasts 6.2	<p>6.2 Provide:</p> <p>(a) the model(s) TransGrid used to forecast maximum demand;</p> <p>(b) where TransGrid's approach to weather correction has changed, provide historically consistent weather corrected maximum demand data, as per the format in Workbook 1 – regulatory determination, regulatory templates 3.4, and 5.4 using TransGrid's current approach. If this data is unavailable, explain why; and</p> <p>(c) any supporting information or calculations that illustrate how information extracted from TransGrid's forecasting model(s) reconciles to, and explains any differences from, information provided in Workbook 1 – regulatory determination, regulatory templates 3.4, and 5.4.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Demand Forecast-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 3.4, 5.4]
6. Demand Forecasts 6.3	<p>6.3 For each of the methodologies provided and described in response to paragraph 6.1, and, where relevant, data requested under paragraph 6.2(b) and 6.2(c), explain or provide (as appropriate):</p> <p>(a) the models used;</p> <p>(b) a global (or top-down) and spatial (bottom-up) forecasting processes;[new footnote definitions]</p> <p>(c) the inputs and assumptions used in the models (including in relation to economic growth, customer numbers and policy changes and provide any associated models or data relevant to justifying these inputs and assumptions);</p> <p>(d) the weather correction methodology, how weather data has been used, and how TransGrid's approach to weather correction has changed over time;</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Demand Forecast-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC

Reference	Final RIN Content	Document Name
	<p>(e) an outline of the treatment of block loads, transfers and switching within the forecasting process;</p> <p>(f) any appliance models , where used, or assumptions relating to average customer energy usage (by customer type);</p> <p>(g) how the forecasting methodology used is consistent with, and takes into account, historical observations (where appropriate), including any calibration processes undertaken within the model (specifically whether the load forecast is matched against actual historical load on the system and substations);</p> <p>(h) how the resulting forecast data is consistent across forecasts provided for each connection point identified in Workbook 1 – regulatory determination, regulatory template 5.4 and system wide forecasts;</p> <p>(i) how the forecasts resulting from these methods and assumptions have been used in determining the following:</p> <p>(i) capex forecasts; and</p> <p>(ii) operating and maintenance expenditure forecasts.</p> <p>(j) whether TransGrid used the forecasting model(s) it used in the joint planning process for the purposes of its revenue proposal;</p> <p>(k) whether TransGrid forecasts both coincident and non-coincident maximum demand at the connection point, or other nominated network elements, and how these forecasts reconcile with the system level forecasts (including how various assumptions that are allowed for at the system level relate to the network level forecasts);</p> <p>(l) whether TransGrid records historic maximum demand in MW, MVA or both;</p> <p>(m) the probability of exceedance that TransGrid uses in network planning;</p> <p>(n) the contingency planning process, in particular the process used to assess high system demand;</p> <p>(o) how risk is managed across the network, particularly in relation to non network solutions to peak demand events;</p> <p>(p) whether and how the maximum demand forecasts underlying the revenue proposal reconcile with any demand information or related planning statements published by AEMO, as well as forecasts produced by any distribution network service providers connected to TransGrid's network; and</p> <p>(q) how the normal and emergency ratings are used in determining capacity for individual transmission connection points.</p>	[Tab 5.4]
6. Demand Forecasts 6.4	<p>6.4 Provide:</p> <p>(a) evidence that any independent verifier engaged by TransGrid has examined the reasonableness of the method, processes and assumptions in determining the forecasts and has sufficiently capable expertise in undertaking a verification of forecasts; and</p> <p>(b) all documentation, analysis and models evidencing the results of the independent verification.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Demand Forecast-0117-PUBLIC
7. Operating and Maintenance Expenditure 7.1	<p>7.1 Provide:</p> <p>(a) the model(s) and the methodology TransGrid used to develop total forecast opex;</p> <p>(b) justification for TransGrid's total forecast opex proposal, including:</p> <p>(i) why the proposed total forecast opex is required for TransGrid to achieve each of the objectives in clause 6A.6.6(a) of the NER;</p> <p>(ii) how TransGrid's proposed total forecast opex reasonably reflects each of the criteria in clause 6A.6.6(c) of the NER; and</p> <p>(iii) how TransGrid's proposed total forecast opex accounts for the factors in clause 6A.6.6(e) of the NER.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.1]
7. Operating and Maintenance Expenditure 7.2	<p>7.2 Provide:</p> <p>(a) the quantum of non-recurrent costs for each year of the forthcoming regulatory control period; and</p> <p>(b) an explanation of each non-recurrent cost.</p>	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC

Reference	Final RIN Content	Document Name
7. Operating and Maintenance Expenditure 7.3	7.3 If TransGrid used a revealed cost base year approach to develop its total forecast opex proposal, provide: (a) in Microsoft Excel format, reconciliation (including all calculations and formulae) of TransGrid's forecast total opex proposal to forecast prescribed transmission services opex by opex driver in table 2.16.1; (b) the base year TransGrid used; and (c) explanation and justification for why that base year represents efficient and recurrent costs.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC
7. Operating and Maintenance Expenditure 7.4	7.4 If TransGrid does not use the revealed costs base year, approach to forecasting opex, provide in Workbook 1 – regulatory determination: (a) forecast expenditure by opex category for each year of the forthcoming regulatory control period in table 2.16.2 for prescribed transmission services opex; and (b) in Microsoft Excel format, clear reconciliation (including all calculations and formulae) of TransGrid's forecast total opex proposal to forecast prescribed transmission services opex by opex category in table 2.16.2; (c) explanation of major drivers for the increases and decreases in expenditure by opex category in the forthcoming regulatory control period compared to actual historical expenditure; (d) explanation and justification for: (i) why TransGrid considers no year of historic opex represents efficient and recurrent costs.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.16]
7. Operating and Maintenance Expenditure 7.5	7.5 Provide the amount of total forecast opex attributable to changes in the price of labour and materials for each year of the forthcoming regulatory control period in Workbook 1 – regulatory determination, table 2.16.1 for prescribed transmission services opex.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC
7. Operating and Maintenance Expenditure 7.6	7.6 Provide an explanation of: (a) how, in developing the amount of total forecast opex attributable to changes in the price of labour and materials, TransGrid applied the real price measures in paragraph 7.5; and (b) whether TransGrid's labour price measure compensates for any form of labour productivity change.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.16]
7. Operating and Maintenance Expenditure 7.7	7.7 Provide the amount of total forecast opex attributable to changes in output growth for each year of the forthcoming regulatory control period in Workbook 1 – regulatory determination, table 2.16.1 for prescribed transmission services opex.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.16]
7. Operating and Maintenance Expenditure 7.8	7.8 Provide an explanation of: (a) how, in developing the amount of total forecast opex attributable to changes in output growth, TransGrid applied the output growth change measure in paragraph 7.7; and (b) whether TransGrid's output growth change measure compensates for any form of productivity change or forecast price change.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC

Reference	Final RIN Content	Document Name
		[Tab 2.16]
7. Operating and Maintenance Expenditure 7.9	7.9 Provide the amount of total forecast opex attributable to changes in productivity for each year of the forthcoming regulatory control period in Workbook 1 – regulatory determination, table 2.16.1 for prescribed transmission services opex;	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.16]
7. Operating and Maintenance Expenditure 7.10	7.10 Provide, in percentage year on year terms, the productivity measure that TransGrid used to develop the amount of total forecast opex attributable to changes in productivity;	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC
7. Operating and Maintenance Expenditure 7.11	7.11 Provide an explanation of: (a) how, in developing the amount of total forecast opex attributable to changes in productivity, TransGrid applied the productivity measure in paragraph 7.10; (b) whether TransGrid's forecast productivity changes capture the historic trend of cost increases due to changes in regulatory obligations or requirements and industry best practice; and (c) whether TransGrid's productivity measure includes productivity change compensated for by the labour price measure used by TransGrid to forecast the change in the price of labour.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC
7. Operating and Maintenance Expenditure 7.12	7.12 Provide the amount of total forecast opex attributable to opex step changes for each year of the forthcoming regulatory control period in Workbook 1 – regulatory determination, table 2.17.1 for prescribed transmission services opex;	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]
7. Operating and Maintenance Expenditure 7.13	7.13 Provide an explanation of why TransGrid considers: (a) the efficient costs of the step change are not provided by other components of TransGrid's total forecast opex such as base opex, output growth changes, real price changes or productivity change; (b) the total forecast opex will not allow TransGrid to achieve the objectives in clause 6A.6.6(a) of the NER unless the step change is included; and (c) the total forecast opex will not reasonably reflect the criteria in clause 6A.6.6(c) of the NER unless the step change is included.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.17]

Reference	Final RIN Content	Document Name
7. Operating and Maintenance Expenditure 7.14	7.14 Provide the amount of total forecast opex attributable to category specific opex for each year of the forthcoming regulatory control period in Workbook 1 – regulatory determination, table 2.17.3 for prescribed transmission services opex. The amount of total opex attributable to category specific opex must align with the opex reported in table 2.16.1.	<ul style="list-style-type: none"> TransGrid-RIN Response Opex-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.16, 2.17]
8. Economic Benchmarking 8.1	8.1 Complete the Workbook 1 – regulatory determination, regulatory templates 3.1 to 3.7 in accordance with: (a) the instructions and definitions set out within ‘Economic Benchmarking RIN for transmission network service providers – Instructions and Definitions’ issued to TransGrid on 28 November 2013; (b) the instructions in paragraphs 9.2 to 9.9; (c) If there is inconsistency between the instructions in paragraphs 9.2 to 9.9 and the Economic Benchmarking RIN for transmission network service providers – Instructions and Definitions issued to TransGrid in 2013, TransGrid must apply the instructions in paragraphs 9.2 to 9.9.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117 – PUBLIC [Tab 3.1, 3.2, 3.4, 3.5, 3.6, 3.7]
8. Economic Benchmarking 8.2	8.2 The forecast revenue groupings in Workbook 1 – regulatory determination, regulatory templates, table 3.1.1 may be developed by trending forward actual historical revenue groupings in previous regulatory years. However: (a) total revenues must equal total forecast revenues as proposed by TransGrid's in its revenue proposal.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.1]
8. Economic Benchmarking 8.3	8.3 The definition of a tree must be applied when completing the variable “Average number of trees per vegetation maintenance span” (TEF0103) (Worksheet 3.7).	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.7]
8. Economic Benchmarking 8.4	8.4 TransGrid must report the km of route line length that does not have standard vehicle access against the “Standard vehicle access” variable (TEF0106) (Worksheet 3.7).	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 3.7]
8. Economic Benchmarking 8.5	8.5 TransGrid must report the route line length of its network 600 meters or more above sea level against the “Altitude” variable (TEF0107) (Worksheet 3.7).	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.7]
8. Economic Benchmarking 8.6	8.6 The length of a span that shares multiple voltage levels is only to be counted once for the purposes of calculating the “Route line length” variable (TEF0201) (Worksheet 3.7).	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice

Reference	Final RIN Content	Document Name
		Template -0117 – PUBLIC [Tab 3.7]
8. Economic Benchmarking 8.7	8.7 For the “Route line length variable” (TEF0201) where there are multiple circuits on a span, the length of each span is considered only once (Worksheet 3.7).	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.7]
8. Economic Benchmarking 8.8	8.8 All forecast variables in the Workbook 1 – regulatory determination, regulatory templates 3.1 to 3.7 must align with those in TransGrid’s revenue proposal. For the avoidance of doubt this includes forecast: (a) opex and capex; (b) revenues; (c) quality of services variables; and (d) energy delivery and quantities of physical assets.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.1, 3.2, 3.4, 3.5, 3.6, 3.7]
8. Economic Benchmarking 8.9	8.9 RAB asset financial data in the Workbook 1 – regulatory determination, 3.3 Assets (RAB) regulatory template must reconcile to that in TransGrid’s revenue proposal PTRM and RFM.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 3.3] TransGrid – Post Tax Revenue Model- 0117-PUBLIC TransGrid – Roll Forward Model-0117-PUBLIC
9. Forecast Price Changes 9.1	9.1 Provide, in Workbook 1 – regulatory determination, regulatory template 2.14, the labour and material price changes assumed by TransGrid in estimating TransGrid’s forecast capex proposal and the forecast opex proposal. All price changes must be expressed in percentage year on year real terms.	<ul style="list-style-type: none"> TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 2.14]

Reference	Final RIN Content	Document Name
9. Forecast Price Changes 9.2	<p>9.2 Provide:</p> <p>(a) the model(s) used to derive and apply the materials price changes, including model(s) developed by a third party;</p> <p>(b) in relation to labour escalators, a copy of the current Enterprise Bargaining Agreement or equivalent agreement; and</p> <p>(c) documents supporting or relied upon that accurately explain the change in the price of goods and services purchased by TransGrid, including evidence that any materials price forecasting method explains the price of materials previously purchased by TransGrid.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 2.14] • TransGrid-Employees Agreement 2013-0514-PUBLIC • TransGrid-BIS Shrapnel – Appendix H Expected wage changes-1116-PUBLIC
9. Forecast Price Changes 9.3	<p>9.3 Provide also an explanation of :</p> <p>(a) the methodology underlying the calculation of each price change, including:</p> <p>(i) sources;</p> <p>(ii) data conversions;</p> <p>(iii) the operation of any model(s) provided under paragraph 9.2(a); and</p> <p>(iv) the use of any assumptions such as lags or productivity gains;</p> <p>(b) whether the same price changes have been used in developing both the forecast capex proposal and forecast opex proposal; and</p> <p>(c) if the response to paragraph 9.3(b) is negative, why it is appropriate for different expenditure escalators to apply.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.14] • TransGrid-BIS Shrapnel- Appendix H Expected wage changes-1116-PUBLIC
9. Forecast Price Changes 9.4	<p>9.4 If an agreement provided in response to paragraph 9.2(b) is due to expire during the forthcoming regulatory control period, explain the progress and outcomes of any negotiations to date to review and replace the current agreement.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 2.14] • TransGrid-Reset RIN Forecast Price Changes-

Reference	Final RIN Content	Document Name
		0117-PUBLIC
10. Related party transactions 10.1	10.1 Identify and describe all other entities which: (a) are a related party to TransGrid and contribute to the provision of transmission services; or (b) have the capacity to determine the outcome of decisions about TransGrid's financial and operating policies.	<ul style="list-style-type: none"> TransGrid-Reset RIN Related Party Transactions-0117-PUBLIC
10. Related party transactions 10.2	10.2 Provide a diagram of the organisational structure depicting the relationships between all the entities identified in the response to paragraph 10.1.	<ul style="list-style-type: none"> TransGrid-Reset RIN Related Party Transactions-0117-PUBLIC
10. Related party transactions 10.3	10.3 Identify: (a) all arrangements or contracts between TransGrid and any of the other entities identified in the response to paragraph 10.1 in place during the period 2016-17 to 2022-23 which relate directly or indirectly to the provision of transmission services; and (b) the service or services that are the subject of each arrangement or contract.	<ul style="list-style-type: none"> TransGrid-Reset RIN Related Party Transactions-0117-PUBLIC
10. Related party transactions 10.4	10.4 For each service identified in the response to paragraph 10.3(b): (a) provide: (i) a description of the process used to procure the service; and (ii) supporting documentation including, but not limited to, requests for tender, tender submissions, internal committee papers evaluating the tenders, contracts between TransGrid and the relevant provider; (b) explain: (i) why that service is the subject of an arrangement or contract (i.e. why it is outsourced) instead of being undertaken by TransGrid itself; (ii) whether the services procured were provided under a standalone contract or provided as part of a broader operational agreement (or similar); (iii) whether the services were procured on a genuinely competitive basis and if not, why; and (iv) whether the service (or any component thereof) was further outsourced to another provider.	<ul style="list-style-type: none"> TransGrid-Reset RIN Related Party Transactions-0117-PUBLIC

Reference	Final RIN Content	Document Name
11. Proposed Contingent Projects 11.1	<p>11.1 For each contingent project proposed in the revenue proposal, provide:</p> <p>(a) a description of the proposed contingent project, including reasons why TransGrid considers the project should be accepted as a contingent project for the forthcoming regulatory control period;</p> <p>(b) the proposed contingent capex which TransGrid considers is reasonably required for the purpose of undertaking the proposed contingent project;</p> <p>(c) the methodology used for developing that forecast and the key assumptions that underlie it;</p> <p>(d) information that demonstrates that the undertaking of the proposed contingent project is reasonably required to meet one or more of the objectives referred to in clause 6A.8.1(b)(1) of the NER;</p> <p>(e) a demonstration that the proposed contingent capex for each proposed contingent project:</p> <p>(i) is not included (either in part or in whole) in TransGrid's proposed total forecast capex for the forthcoming regulatory control period;</p> <p>(ii) reasonably reflects the capex criteria, taking into account the capex factors, in the context of the proposed contingent project; and</p> <p>(iii) exceeds either \$30 million (\$nominal) or 5 per cent of TransGrid's proposed maximum allowed revenue for the first year of the forthcoming regulatory control period, whichever is larger amount.</p> <p>(f) the proposed trigger events relating to the proposed contingent project.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Contingent Projects-0117-PUBLIC • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 7.2]
11. Proposed Contingent Projects 11.2	<p>11.2 For each proposed trigger event relating to the proposed contingent project referred to in paragraph 11.1(f), demonstrate:</p> <p>(a) the proposed trigger event is reasonably specific and capable of objective verification;</p> <p>(b) the occurrence of the proposed trigger event makes the undertaking of the proposed contingent project reasonably necessary in order to achieve any of the capex objectives;</p> <p>(c) the proposed trigger event generates increased costs or categories of costs that relate to a specific location rather than a condition or event that affects the transmission network as a whole;</p> <p>(d) the proposed trigger event is described in such terms that the occurrence of that event or condition is all that is required for the transmission determination to be amended under clause 6A.8.2 of the NER;</p> <p>(e) the proposed trigger event is a condition or event, the occurrence of which is probable during forthcoming regulatory control period, but the inclusion of capex in relation to the proposed trigger event under clause 6A.6.7 of the NER is not appropriate because:</p> <p>(i) it is not sufficiently certain that the event or condition will occur during the forthcoming regulatory control period or if it may occur after that regulatory control period or not at all; or</p> <p>(ii) the costs associated with the event or condition are not sufficiently certain.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Contingent Projects-0117-PUBLIC • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.2]
11. Proposed Contingent Projects 11.3	<p>11.3 Provide a summary of TransGrid's proposed contingent projects for the forthcoming regulatory control period including the proposed contingent capex and trigger events for each proposed contingent project in the Workbook 1 – regulatory determination, regulatory template 7.2.</p>	<ul style="list-style-type: none"> • TransGrid-Reset RIN Contingent Projects-0117-PUBLIC • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.2]

Reference	Final RIN Content	Document Name
12. Non Network Alternatives 12.1	12.1 Identify the policies and strategies and procedures provided in the response to Workbook 1 – regulatory determination, regulatory template 7.1 which relate to the selection of efficient non-network solutions.	<ul style="list-style-type: none"> TransGrid-Reset RIN Non Network Alternatives-0117-PUBLIC
12. Non Network Alternatives 12.2	12.2 Explain the extent to which the provision for efficient non-network alternatives has been considered in the development of the forecast capex proposal and the forecast opex proposal.	<ul style="list-style-type: none"> TransGrid-Reset RIN Non Network Alternatives-0117-PUBLIC
12. Non Network Alternatives 12.2	12.3 Identify each non-network alternative that TransGrid has: (a) commenced during the current regulatory control period; and (b) selected to commence during, or will continue into, the forthcoming regulatory control period.	<ul style="list-style-type: none"> TransGrid-Reset RIN Non Network Alternatives-0117-PUBLIC
12. Non Network Alternatives 12.2	12.4 For each non-network alternative identified in the response to paragraph 13.3, provide a description, including cost and location.	<ul style="list-style-type: none"> TransGrid-Reset RIN Non Network Alternatives-0117-PUBLIC
13. Efficiency Benefit Sharing Scheme 13.1	13.1 Provide the data for Worksheet 1-regulatory determination, regulatory template 7.5 (tables 7.5.1 and 7.5.2).	<ul style="list-style-type: none"> TransGrid-2019 to 23 Final Regulatory Information Notice Templates-0117-PUBLIC [Tab 7.5]
14. Service Target Performance Incentive Scheme 14.1	14.1 For the service component of the STPIS, provide the values that TransGrid proposes are to be attributed to the performance incentive scheme parameters for the purposes of the application to TransGrid of the STPIS in the attached Workbook 1 – regulatory determination, regulatory template 7.9, in two parts: (a) data for 2012 to 2016, and the proposed scheme parameters based on that data is to be provided by 31 January 2017. (b) data for 2013 to 2017, and the proposed scheme parameters based on that data is to be provided by 31 January 2018. (c) the data required in response to paragraphs 14.1 (a) and (b) is to be submitted using regulatory template 7.9 STPIS (table 7.9.1) in the attached Workbook 1 – regulatory determination. (d) an explanation of how the proposed values to be attributed to those performance incentive scheme parameters comply with the requirements of the STPIS; (e) an explanation of the method used to calculate the proposed values to be attributed to those performance incentive scheme parameters and provide supporting calculations; (f) performance data (including the underlying outage and exclusion data) used to calculate the proposed performance targets in Excel spreadsheet format; (g) for each exclusion claim, please provide supporting evidence which shows how the proposed exclusion claim meets the requirements of the relevant exclusion clause. If such evidence has previously been provided to the AER, TransGrid may refer to its previous submission, and is not required to resubmit the evidence; (h) an explanation that data provided in paragraph 1514.1(fd) are consistently recorded based on the parameter definitions that apply to TransGrid under the service component of the STPIS.	<ul style="list-style-type: none"> TransGrid-Reset RIN STPIS-0117-PUBLIC TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.9]

Reference	Final RIN Content	Document Name
14. Service Target Performance Incentive Scheme 14.2	<p>14.2 For the market impact component of the STPIS, provide performance data in accordance with Appendix C of the STPIS for the most recent seven calendar years, in two parts:</p> <p>(a) Data for 2010 to 2016 is to be provided by 31 January 2017 31 January 2017.</p> <p>(b) Data for 2011 to 2017 is to be provided by 31 January 2018 2018.</p> <p>(c) The data required in response to paragraphs 14.2 (a) and (b) is to be submitted using regulatory template 7.9 STPIS (table 7.9.4) in the attached Workbook 1 – regulatory determination and the Market Impact Component excel workbook (Workbook 2 – MIC) at Appendix A to this notice.</p> <p>(d) TransGrid is to:</p> <p>(i) make a copy of the Workbook 2 – MIC for each relevant year and label each copy as provided for in Workbook 2 – MIC;</p> <p>(ii) complete each copy of the Workbook 2 – MIC as provided for in the Workbook 2 – MIC;</p> <p>(iii) submit to the AER completed copies of Workbook 2 – MIC with its response to this notice.</p> <p>(e) For each exclusion claim, please provide supporting evidence which shows how the proposed exclusion claim meets the requirements of the relevant exclusion clause. If such evidence has previously been provided to the AER, TransGrid may refer to its previous submission, and is not required to resubmit the evidence.</p>	<ul style="list-style-type: none"> • TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2010 – 0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2011-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2012 – 0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2013-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2014-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2015-0117-PUBLIC • TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template MIC 2016-0117-PUBLIC

Reference	Final RIN Content	Document Name
14. Service Target Performance Incentive Scheme 14.3 (a)	<p>14.3 For the network capability component of the scheme:</p> <p>(a) provide a network capability incentive parameter action plan (NCIPAP) as required under clause 5.2(b) of the STPIS, which must include:</p> <p>(i) for every transmission circuit or injection point on TransGrid's network, an explanation of the reason for the limit for each transmission circuit or injection point.</p> <p>(ii) a description of the process that TransGrid undertook to identify the limit for each transmission circuit or injection point.</p> <p>(iii) a list of proposed priority projects to be undertaken in the relevant regulatory control period to improve the limit of the transmission circuits and injection points identified in (i) in table 7.9.2 of regulatory template 7.9.</p> <p>(iv) a list of project details for each proposed priority project using the sample format below: [see RIN]</p>	<ul style="list-style-type: none"> TransGrid-Reset RIN STPIS-0117-PUBLIC TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.9]
14. Service Target Performance Incentive Scheme 15.3 (b)	<p>14.3</p> <p>(b) in relation to the limits identified in paragraph 15.3(a)(i) of Schedule 1 provide the following network limits information in table 7.9.3 of regulatory template 7.9:</p> <p>(i) Limit identification: If a thermal limit, identify injection point and/or transmission element (line, cable, transformer). If not a thermal limit, identify the cut set (transmission lines) over which the limit is defined and identify the type of limit; e.g. short term voltage, long term voltage, transient, oscillatory, etc.</p> <p>(ii) Define limit: If a thermal limit, specify ratings. The ratings are those provided to AEMO for operational purposes. If not a thermal limit, provide the limit equation or upper limit on the cut set.</p> <p>(iii) Reason for limit: If a thermal limit, provide an explanation of the reason for the limit, including:</p> <p>(A) Identify whether the rating is caused by primary or secondary equipment</p> <p>(B) Specify the equipment that is setting the rating</p> <p>(C) For ratings other than continuous ratings of transmission lines and transformers, specify the time applicable for the given ratings (i.e. EMER and LDSH ratings)</p> <p>(D) If the limiting element is the transmission line, provide details on the number of spans that would require uprating to increase the rating to the conductor design temperature</p> <p>(E) What assumptions were used in the calculation of the line ratings (e.g. ambient temperature, wind speed, wind direction)</p> <p>(F) Does the line have weather monitoring? If so, what is being measured? Are dynamic ratings applied operationally?</p> <p>(iv) If not a thermal limit, provide a description of the limiting phenomena; e.g. voltage collapse in area X for trip of element Y / generator Y</p> <p>(v) To understand the asset configuration, thermal ratings and secondary plant limits, provide supporting information, for example:</p> <p>(A) Single line diagram of terminal stations and substations with major assets (e.g. switchgears, transformers, CT, VT)</p> <p>(B) Single line diagram of distribution substations connection</p> <p>(C) Plant data information of all major assets (e.g. current, MVA & voltage ratings, short circuit capability, transformer parameters)</p> <p>(D) Secondary plant information (e.g. CT and protection limits)</p> <p>(E) Other plant information (e.g. interplant connections, connecting element between line and station)</p> <p>(F) Circuit data information (e.g. conductor type, impedance parameters, ratings, route length, easements)</p> <p>(G) Details of ability to transfer load from one station to another station</p> <p>(vi) To understand the asset performance, provide supporting information:</p> <p>(A) Plant outage investigation report</p> <p>(B) Plant unplanned outage data (e.g. for each historical outage, date and time of outage, type of unplanned outage, duration of unavailability of plant of each of the outages)</p> <p>(vii) Is the limit addressed by a priority project? Indicate whether the limit is addressed by a priority project in the NCIPAP. Provide project name. If not, please provide an explanation of why this limit has not been addressed by a priority project.</p>	<ul style="list-style-type: none"> TransGrid-Reset RIN STPIS-0117-PUBLIC TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.9]

Reference	Final RIN Content	Document Name
14. Service Target Performance Incentive Scheme 14.3 (c)	<p>14.3 (c) State whether TransGrid has consulted with AEMO regarding the NCIPAP.</p> <p>(d) State whether AEMO has disagreed with TransGrid as to:</p> <p>(i) whether a project should be classified as a priority project;</p> <p>(ii) whether a priority project improvement target will result in a material improvement, or</p> <p>(iii) the ranking of the priority projects,</p> <p>and, if so, identify each disagreement and the grounds for the disagreement.</p> <p>(e) Explain how TransGrid has considered the impacts of the proposed priority projects on its proposed forecast capex and opex for the forthcoming regulatory control period.</p> <p>(f) State whether the costs of the proposed priority projects are included in the proposed forecast capex and opex for the forthcoming regulatory control period.</p> <p>(g) State whether the benefits and improved limit values for each proposed priority project are solely to be attributable to the priority project and not any other work which TransGrid is undertaking on the transmission network.</p>	<ul style="list-style-type: none"> TransGrid-Reset RIN STPIS-0117-PUBLIC TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 7.9]
15. Shared Assets	15.1 Provide TransGrid's shared assets information in Workbook 1 – regulatory determination, regulatory template 7.4.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template -0117-PUBLIC [Tab 7.4]
16. Total Revenue Cap and Maximum Allowed Revenue 16.1	<p>16.1 Provide TransGrid's calculation of the:</p> <p>(a) estimated total revenue cap for the forthcoming regulatory control period; and</p> <p>(b) maximum allowed revenue for each year of the forthcoming regulatory control period using the AER's post-tax revenue model, which is to be submitted as part of TransGrid's revenue proposal.</p>	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC TransGrid-Post Tax Revenue Model-0117 – PUBLIC
16. Total Revenue Cap and Maximum Allowed Revenue 16.2	16.2 Provide details of any departure from the AER's post-tax revenue model for the calculations referred in paragraph 16.1 and the reasons for that departure.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC TransGrid-Post Tax Revenue Model -0117-PUBLIC
17. Indicative Impact on Annual Electricity Bills 17.1	17.1 For the purposes of calculating the impact of TransGrid's revenue proposal on the annual electricity bill of typical residential and business customers in New South Wales, provide the data/information required in Workbook 1 – regulatory determination, regulatory template 7.6. Provide the data source for each input used for the calculation.	<ul style="list-style-type: none"> TransGrid- 18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC [Tab 7.6]

Reference	Final RIN Content	Document Name
18. Regulatory Asset Base 18.1	18.1 Provide TransGrid's calculation of the RAB for the relevant transmission system for each regulatory year of current regulatory control period using the AER's roll forward model, which is to be submitted as part of the revenue proposal.	<ul style="list-style-type: none"> • TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC • TransGrid – Post Tax Revenue Model - 0117 – PUBLIC • TransGrid – Roll Forward Model – 0117-PUBLIC
18. Regulatory Asset Base 18.2	18.2 Provide details of any departure from the underlying methods in the AER's roll forward model for the calculation referred to in paragraph 18.1 and the reasons for that departure.	<ul style="list-style-type: none"> • TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
18. Regulatory Asset Base 18.3	18.3 If the value of the RAB as at the start of the forthcoming regulatory control period is proposed to be adjusted because of changes to asset service classification, provide details including relevant supporting information used to calculate that adjustment value.	<ul style="list-style-type: none"> • TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
19. Depreciation Schedules 19.1	19.1 Provide TransGrid's calculation of the depreciation amounts for the relevant transmission system for each regulatory year of: (a) the current regulatory control period using the AER's roll forward model, which is to be submitted as part of the revenue proposal; and (b) the forthcoming regulatory control period using the AER's post-tax revenue model, which is to be submitted as part of the revenue proposal.	<ul style="list-style-type: none"> • TransGrid-Reset RIN Depreciation-0117-PUBLIC • TransGrid – Post Tax Revenue Model - 0117 – PUBLIC • TransGrid – Roll Forward Model - 0117 – PUBLIC
19. Depreciation Schedules 19.2	19.2 Provide details of any departure from the underlying methods in the AER's roll forward model and post-tax revenue model for the calculations referred to in paragraph 19.1 and the reasons for that departure.	<ul style="list-style-type: none"> • TransGrid-Reset RIN Depreciation-0117-PUBLIC • TransGrid – Post Tax Revenue Model – 0117-PUBLIC • TransGrid – Roll Forward Model – 0117-PUBLIC
19. Depreciation Schedules 19.3	19.3 Identify any changes to standard asset lives for existing asset classes from the previous determination. Explain the reason/s for each change and provide relevant supporting information.	<ul style="list-style-type: none"> • TransGrid-Reset RIN Depreciation-0117-PUBLIC

Reference	Final RIN Content	Document Name
19. Depreciation Schedules 19.4	19.4 Identify any changes to new asset classes from the previous determination. Explain the reason/s for using these new asset classes and provide relevant supporting information on their proposed standard asset lives.	<ul style="list-style-type: none"> TransGrid-Reset RIN Depreciation-0117-PUBLIC
19. Depreciation Schedules 19.5	19.5 If any existing asset classes from the previous determination are proposed to be removed and their residual values to be reallocated to other asset classes, explain the reason/s for the change and provide relevant supporting information. This should include a demonstration of the materiality of the change on the forecast depreciation allowance.	<ul style="list-style-type: none"> TransGrid-Reset RIN Depreciation-0117-PUBLIC
19. Depreciation Schedules 19.6	19.6 Describe the method used to depreciate existing asset classes as at 1 July 2018 (the start of the forthcoming regulatory control period) and provide supporting calculations, if the approach differs from that in the roll forward model.	<ul style="list-style-type: none"> TransGrid-Reset RIN Depreciation-0117-PUBLIC
20. Corporate Tax Allowance 20.1	20.1 Provide TransGrid's calculation of the estimated cost of corporate income tax for the forthcoming regulatory control period using the AER's post-tax revenue model, which is to be submitted as part of the revenue proposal.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
20. Corporate Tax Allowance 20.2	20.2 Provide details of any departure from the AER's post-tax revenue model for the calculations referred to in paragraph 20.1 and the reasons for that departure.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
20. Corporate Tax Allowance 20.3	20.3 Identify each change to standard tax asset lives for existing asset classes from the previous determination. Explain the reason/s for the change and provide relevant supporting information, including Federal tax laws governing depreciation for tax purposes.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
20. Corporate Tax Allowance 20.4	20.4 Describe the method used to depreciate existing asset classes as at 1 July 2018 (the start of the forthcoming regulatory control period) and provide supporting calculations, if the approach differs from that in the AER's roll forward model.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
20. Corporate Tax Allowance 20.5	20.5 Provide TransGrid's calculation of the tax asset base for the relevant transmission system for each regulatory year of the current regulatory control period using the AER's roll forward model, which is to be submitted as part of the revenue proposal.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
20. Corporate Tax Allowance 20.6	20.6 Provide details of each departure from the underlying methods in the AER's roll forward model for the calculation referred to in paragraph 20.5 and the reasons for that departure.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC

Reference	Final RIN Content	Document Name
20. Corporate Tax Allowance 20.7	20.7 Identify each difference in the capitalisation of expenditure for regulatory accounting purposes and tax accounting purposes. Provide reasons and supporting calculations to reconcile any differences between the two forms of accounts.	<ul style="list-style-type: none"> TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC
21. Other Information 21.1	21.1 Provide a statement of whether or not TransGrid's revenue proposal is consistent with the most recent NTNDP and, if it is inconsistent, identify and give reasons for any inconsistency	<ul style="list-style-type: none"> TransGrid-Reset RIN General-0117-PUBLIC (this document)
21. Other Information 21.2	21.2 Provide an overview paper which includes: (a) a summary of the revenue proposal the purpose of which is to explain the revenue proposal in reasonably plain language to electricity consumers; (b) a description of how TransGrid has engaged with electricity consumers and has sought to address any relevant concerns identified as a result of that engagement; (c) a description of the key risks and benefits of the revenue proposal for electricity consumers; and (d) a comparison of TransGrid's proposed total revenue cap with its total revenue cap for the current regulatory control period.	<ul style="list-style-type: none"> TransGrid - Revenue Submission Overview - 0117 - PUBLIC
21. Other Information 21.3	21.3 Provide the commencement and length of the forthcoming regulatory control period proposed by TransGrid.	<ul style="list-style-type: none"> TransGrid-Reset RIN General-0117-PUBLIC (this document)
22. Corporate Structure 22.1	22.1 Provide charts that set out: (a) the group corporate structure of which TransGrid is a part; and (b) the organisational structure of TransGrid.	<ul style="list-style-type: none"> TransGrid-Reset RIN Corporate Structure-0117-PUBLIC
23. Map of transmission system 23.1	23.1 Provide a map of TransGrid's transmission system at the time of submitting information in response to this notice. This map, together with any appropriate accompanying notes, should identify and describe the locations and voltages of existing transmission lines and other major network assets.	<ul style="list-style-type: none"> TransGrid-Reset RIN Transmission Map-0117-PUBLIC
23. Map of transmission system 23.2	23.2 Provide a separate document identifying the locations and different ratings of the transmission lines and other major network assets.	<ul style="list-style-type: none"> TransGrid-Reset RIN Transmission Map-0117-PUBLIC
24. Audit Reports 24.1	24.1 Provide the audit report and review reports as applicable, prepared in accordance with the requirements set out in Appendix C.	<ul style="list-style-type: none"> TransGrid - PWC - Reset RIN Independent auditor's report - 0117-PUBLIC
24. Audit Reports 24.2	24.2 Provide all reports from the auditor to TransGrid's management regarding the audit review and/or auditors' opinions or assessment.	<ul style="list-style-type: none"> TransGrid - PWC - Reset RIN Independent auditor's report - 0117-PUBLIC

Reference	Final RIN Content	Document Name
25. Transitional Issues 25.1	25.1 Provide information on existing potential transitional issues (expressly identified in the NER or otherwise) which TransGrid expects will have a material impact on it and should be considered by the AER in making its transmission determination. For each issue, set out the following information: (a) the transitional issue; (b) what has caused the transitional issue; (c) how the transitional issue impacts on TransGrid; and (d) how TransGrid considers the transitional issue could be addressed.	<ul style="list-style-type: none"> TransGrid-Reset RIN General-0117-PUBLIC (this document)
26. Confidential Information 26.1	26.1 This clause applies to any information TransGrid provides: (a) in response to Schedule 1; (b) in a revenue proposal, proposed negotiating framework, proposed pricing methodology, proposed tariff structure statement, access arrangement proposal or access arrangement for the forthcoming regulatory control period (a Proposal) (c) in a revision or amendment to a Proposal; and (d) in a submission TransGrid makes regarding a Proposal or a revised or amended Proposal; (together, TransGrid's Information).	<ul style="list-style-type: none"> TransGrid-Reset RIN Confidentiality-0117-PUBLIC
26. Confidential Information 26.2	26.2 If TransGrid wishes to make a claim for confidentiality over any of TransGrid's Information, provide the details of that claim in accordance with the requirements of the AER's Confidentiality guideline, as if it extended and applied to that claim for confidentiality.	<ul style="list-style-type: none"> TransGrid-Reset RIN Confidentiality-0117-PUBLIC
26. Confidential Information 26.3	26.3 Provide any details of a claim for confidentiality in response to clause 28.2 at the same time as making the claim for confidentiality.	<ul style="list-style-type: none"> TransGrid-Reset RIN Confidentiality-0117-PUBLIC
27. Consent to Disclose Non- Confidential Information 26.4	27.1 Confirm, in writing, that TransGrid consents to the AER disclosing all other of TransGrid's Information not the subject of a claim for confidentiality, including on the AER website.	<ul style="list-style-type: none"> TransGrid-Reset RIN Confidentiality-0117-PUBLIC

(d) a table that references each document provided in or as part of the revenue proposal, proposed pricing methodology or negotiating framework and its relationship to other documents provided;

Document Name	Relationship
TransGrid-Revenue Proposal 18_19 to 22_23-0117-PUBLIC.pdf	Revenue Proposal
TransGrid-Revenue Proposal Overview 18_19 to 22_23-0117-PUBLIC.pdf	Revenue Proposal Overview
TransGrid-TransGrid Averaging Period 2018_19 proposal-0117-CONFIDENTIAL	TransGrid Averaging Period
TransGrid-TransGrid Negotiating Framework 2018_2023-0117-PUBLIC.pdf	Negotiating Framework
TransGrid-TransGrid Pricing Methodology 2018_2023-0117-PUBLIC.pdf	Pricing Methodology
TransGrid-Appendix A Network_Vision_2056-1016-PUBLIC.pdf	Appendices
TransGrid-Appendix B Project Specification Consultation Report PSF-1116-PUBLIC.pdf	Appendices
TransGrid-Appendix C Consumer engagement activities feedback and TransGrids response-0117-PUBLIC.pdf	Appendices
TransGrid-Appendix D Step Change Off Easement Risk Management-0117-PUBLIC.pdf	Appendices
TransGrid-Appendix G Capital Expenditure Projects-0117-PUBLIC.pdf	Appendices
TransGrid-Appendix W Depreciation Schedules-0117-PUBLIC.pdf	Appendices
TransGrid-Appendix Y Network Capability Incentive Parameter Action Plan-0117-PUBLIC.pdf	Appendices
TransGrid-Appendix Z Directors Certification of the reasonableness of the key assumptions of the proposal-0117-PUBLIC.pdf	Appendices
TransGrid-Aurecon-Appendix E Independent review of TransGrids Capex Plan-0117-PUBLIC.pdf	Appendices
TransGrid-Aurecon-Appendix O 1617 Asset maintenance assurance-1216-PUBLIC.pdf	Appendices
TransGrid-BIS Shrapnel-Appendix H Expected wage changes-1116-PUBLIC.pdf	Appendices
TransGrid-CEB-Appendix P IT benchmark report-1016-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix F Review of the MTFP and MPFP analysis in the AERs 2016 annual benchmarking report-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix J Opex forecast starting point-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix Q An equity beta estimate for the benchmark efficient entity-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix R Low_beta Bias-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix S The Market Risk Premium-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix T Return on debt transition letter-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix U An updated dividend drop_off estimate of theta-0117-PUBLIC.pdf	Appendices
TransGrid-Frontier Economics-Appendix V Estimating gamma for regulatory purposes-0117-PUBLIC.pdf	Appendices
TransGrid-GHD-Appendix I Ausgrid Connection Point Forecasts-0816-PUBLIC.pdf	Appendices
TransGrid-Herbert Smith Freehills-Appendix K Operating expenditure advice-0117-PUBLIC.pdf	Appendices
TransGrid-Incenta-Appendix L Debt Raising Cost TransGrid 2018_19 to 2022_23 Revenue Determination-0117-PUBLIC.pdf	Appendices
TransGrid-KPMG-Appendix N 2016 Utilities Benchmarking-0117-CONFIDENTIAL.pdf	Appendices

Document Name	Relationship
TransGrid-UMS Group-Appendix M ITOMS blind benchmarking report-0116-PUBLIC.pdf	Appendices
TransGrid-WSP Parsons Brinckerhoff-Appendix X STPIS_Fitting Probability distribution curves to reliability data-1016-PUBLIC.pdf	Appendices
TransGrid-Capital Accumulation Model-0117-PUBLIC.xlsx	Models
TransGrid-Capital Efficiency Sharing Scheme Model-0117-PUBLIC.xlsx	Models
TransGrid-Opex Model-0117-PUBLIC.xlsx	Models
TransGrid-Post Tax Revenue Model-0117-PUBLIC.xlsm	Models
TransGrid-Roll Forward Model-0117-PUBLIC.xlsm	Models
TransGrid-Reset RIN Capex-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Contingent Projects-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Corporate Structure-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Demand Forecast-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Depreciation-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Forecast Price Changes-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN MAR RAB Tax-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Non Network Alternatives-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Opex-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Related Party Transactions-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Repex-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Services-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Step Changes-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN STPIS-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Transmission Map-0117-PUBLIC.pdf	RIN Response
TransGrid-Reset RIN Basis of Preparation-0117-PUBLIC	RIN Response
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2010-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2011-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2012-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2013-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2014-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2015-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template MIC 2016-0117-PUBLIC.xlsm	RIN Templates
TransGrid-18_19 to 22_23 Final Regulatory Information Notice Template-0117-PUBLIC.xlsm	RIN Templates
TransGrid-EY-TransGrid load databook-1016-CONFIDENTIAL.xlsx	Supporting Document to the Revenue Proposal
TransGrid-Substation Security Asset Renewal and Maintenance Strategy-1216-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
Transgrid-ACT-Electricity Transmission Supply Code (July 2016)_Disallowable Instrument DI2016_189-0716-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-AEMO-2016 National Electricity Forecasting report-0616-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-AEMO-National Transmission Network Development Plan 2016-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Asset Management Policy-0916-PUBLIC.pdf	Supporting Document to

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	the Revenue Proposal
TransGrid-Asset Management Strategy and Objectives-1115-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Automation Systems Renewal and Maintenance-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Cables Renewal and Maintenance Strategy-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Department of Industry & Investment-Transmission Network Design and Reliability Standard-1210-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Expenditure Capitalisation-0414-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-EY-Report to TransGrid on Load Developments-1016-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-EY-TransGrid load databook-1016-PUBLIC.xlsx	Supporting Document to the Revenue Proposal
TransGrid-GHD-Powering Sydneys Future Inner Sydney Demand Forecast-1016-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-IPART-Electricity Transmission Reliability Standard Final Report-0816-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-IPART-Electricity Transmission Reliability Standard Supplementary Final Report-1116-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Bayswater-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Cowra-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Dapto-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Mt Piper-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Newcastle-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Sydney East-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Sydney North-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Sydney South-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Tumut-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Wallerawang-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Knight Frank-Building Condition Report Wellington-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Maintenance Plan_Easements and Access Tracks-1016-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Metering Systems Renewal and Maintenance-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Network Asset Criticality Framework-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Network Asset Health Framework-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Network Asset Risk Assessment Methodology (RAM)-1215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Network Development Strategy-1214-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Network Management Plan 2013_2018-0612-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-Prescribed Capital Investment Framework-0816-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Prescribed Capital Investment Procedure-0716-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Repex Model Description-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Repex Model-0117-PUBLIC.xlsm	Supporting Document to the Revenue Proposal
TransGrid-SSA Smart Network Vision-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Substation Security Asset Renewal and Maintenance Strategy-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Substations Renewal and Maintenance Strategy-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Telecom Infrastructure Development and Renewal Strategy and Objectives-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Transmission Annual Planning Report 2016-0616-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Transmission Lines Renewal and Maintenance Strategy-1216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1528 Reinforcement of Southern Network Contingent-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1529 Reinforcement of Northern Network Contingent-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1746 Support South Western NSW for Renewables Contingent-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1528 Reinforcement of Southern Network Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1529 Reinforcement of Northern Network Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1570 Reinforcement of NSW to South Australia Interconnector Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1746 Support South Western NSW for Renewables Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1754 Supply to Broken Hill Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1754 Supply to Broken Hill Contingent Project-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OFS 1528B Reinforcement of Southern Network Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OFS 1529 2E Reinforcement of Northern Network Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OFS 1570E Reinforcement of NSW to South Australia Interconnector Contingent-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1398 CCTV System Renewal-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1416 Tomago330kVBus Capacity Augment-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1451 Electric Fence Topping Replacement-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1452 Motion Detector Replacement-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1455 Substation Lighting Replacement-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1595 Card Access and Intrusion Detection System-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS 000W Information Technology-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1088 Cable 41 Tunnels Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1164 Transmission Line Asbestos Paint-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1180 Wagga 330kV Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1186 Murrumburrah Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1191 Deniliquin Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1192 Lower Tumut Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1219 Marulan Tx 4 Renewal Marulan No.4 Transformer Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1246 Panorama Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1247 Muswellbrook Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1252 Cowra Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1253 Darlington Pt Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1254 SCADA_EMS NM4 Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1255 Ingleburn Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1258 Regentville Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1263 Tuggerah Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1266 Marulan Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1267 Molong Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1268 Line 81 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1273 27 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1274 28 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS 1275 31_32 330kV Transmission Lines Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1276 39 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1278 5A1_5A2 500kV Transmission Lines Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1280 14 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1282 Wellington No.1 Reactor Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1286 Sydney West SVC Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1287 Lismore SVC Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1316 Beryl Area Constraint-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1317 88 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1333 21 TGH SYN 330kV Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1337 Various Locations CB Renewal Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1338 Various Locations CT Renewal Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1341 8 MRN DPT 330kV Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1346 959_92Z 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1347 90 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1348 24 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1349 22 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1350 25_26 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1351 18 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1352 17 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1353 16 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1354 Transformer Renewal 2018_19 2023_24-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1355 Installation of Fibre Networks Phase 2-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1356 Protection Reyrolle OHx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1357 Various Location Disconnectors Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1358 Various Location Steelwork Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1360 50V and 110V NiCad Battery Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1361 50V Rack Power Supply Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1362 50V and 110V Battery Charger Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS 1365 Telcommunications SDH Network Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1366 Substation Security Zone (SSZ) Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1367 KCR ER0 33kV Tertiary Reactor Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1368 Protection Feeder OC Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1370 Protection UFLS Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1371 Protection VF Intertrip Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1375 Substation Based PC Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1376 Protection Alstom Pxxx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1377 Protection ABB Relays Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1379 Protection GE Multilin Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1380 Protection Schweitzer SELxxx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1381 Protection Siemens 7xx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1386 Protection Transformer Diff Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1387 Protection Capacitor Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1389 Protection Busbar Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1398 CCTV System Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1399 Yass 330kV Bus CB Capacity Augmentation-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1407 93 330kV Transmission Line Renew-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1408 23 330kV Transmission Line Renew-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1411 2M 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1412 Gunnedah_Narrabri66kV Voltage Control-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1416 Tomago330kVBus Capacity Augment-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1421 Transformer AVR Functional Change-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1423 Improving VHF Telecommunications OTN-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1425 Cables41_42 SCADA Transfer Loads Trip-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1427 20 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1437 Macarthur 66 kV Line Switchbay-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1438 Macarthur 330_66kV Second Tx-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1440 Beaconsfield 132kV Cable Replace-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS 1442 Various Locations VT Renewal Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1443 Canberra132kV NewBay ActewAGL Connect-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1444 Macarthur66kV New Bay(Mt Gilead)-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1448 Haymarket 132 kV Ausgrid Cables Replace-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1451 Electric Fence Topping Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1452 Motion Detector Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1453 Buildings Capital Works Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1454 Substation Noise Non_Compliance Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1455 Substation Lighting Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1457 Substation Capital Spares-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1458 LOLS Expansion Including 8G1 and 896-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1460 Armidale and Dumaresq QNI Transposition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1472 Yass_Marulan_Bannaby330kV SmartGrid Ctrl-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1473 North West 330kV Smart Grid Control-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1478 Armidale 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1480 TWFL on 132kV Lines Improve Reliability-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1482 Sydney South 330kV Smart Grid Controls-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1484 Snowy Area 330kV Smart Grid Controls-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1485 Vineyard 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1487 Eraring_KempsCreek 500kV Smart Grid Ctrl-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1489 Thermal Limitation on 969 Line-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1491 Sydney NthWest 330kV Smart Grid Controls-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1493 Haymarket Secondary Systems Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1513 Koolkhan 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1516 Sydney East 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1517 Lismore 415V AC Dist. Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1519 Liverpool 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1521 Newcastle 330_415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1522 31_32_BAY_SYW 330kV SmartGrid Controls-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS 1523 TL Grillage Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1525 Various Locations Bushing Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1545 Replacement of Motor Vehicles-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1555 86 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1556 TL Low Spans Stage2-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1558 132kV TL Wood Pole Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1569 Provision of NSCAS in Southern NSW-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1578 Substations_Use of NonConventional ITs-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1583 Physical Security of Comms Equipment-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1584 Protection_Time Domain Development-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1590 TL Silmalec Fitting Condition Phase2-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1595 Card Access andIntrusion DetectionSystem-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1599 Liverpool Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1600 Line 11 Suspension Structure Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1606 Yanco Sub Low 33kV Busbar Clearance-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1607 Armidale 330kV No. 2 Rx Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1650 Various Locations Dynamic V Support-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1687 Western Sydney Development-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1693 EE connection for Narrabri Gas-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1695 ActewAGL Molonglo Establishment-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1696 Molong Reinforcement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1697 Mudgee Reinforcement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1698 Strengthening Far West NSW Network-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1708 Transformers Reactors Expected Failure-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1747 Test Equipment and Tools-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 691 Second 132kV Line Switchbay At Vineyard BSP (Endeavour Energy)-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS DCN276 Forbes No.1_ No.2 TX Replacemnt-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS DCN335 Second Supply to the ACT Stockdill Dr Switching Station-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-NOS DCN43 Supply to Sydney Inner Metropolitan Area and CBD-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS DCN548 Sydney East No.1,2,3 Transformer Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1416 Tomago330kVBus Capacity Augment-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1452 Motion Detector Replacement-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1455 Substation Lighting Replacement-0117-CONFIDENTIAL.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 000W Information Technology-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1088 Cable 41 Tunnels Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1164 Transmission Line Asbestos Paint-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1180 Wagga 330kV Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1186 Murrumburrah Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1191 Deniliquin Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1192 Lower Tumut Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1193 Broken Hill Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1194 Tenterfield Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1196 Coleambally Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1219 Marulan No.4 Transformer Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1243 Tamworth 330kV Secondary System Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1244 Wallerawang 330 Secondary System Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1246 Panorama Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1247 Muswellbrook Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1252 Cowra Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1253 Darlington Pt Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1254 SCADA_EMS NM4 Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1255 Ingleburn Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1258 Regentville Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1263 Tuggerah Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1266 Marulan Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1267 Molong Secondary Systems Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1268 Line 81 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-OER 1269 3W 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1271 12 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1272 13 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1273 27 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1274 28 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1275 31_32 330kV Transmission Lines Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1276 39 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1278 5A1_5A2 500kV Transmission Lines Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1280 14 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1282 Wellington No.1 Reactor Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1286 Sydney West SVC Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1287 Lismore SVC Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1316 Beryl Area Constraint-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1317 88 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1333 21 TGH SYN 330kV Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1337 Various Locations CB Renewal Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1338 Various Locations CT Renewal Program-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1341 8 MRN DPT 330kV Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1346 959_92Z 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1347 90 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1348 24 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1349 22 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1350 25_26 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1351 18 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1352 17 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1353 16 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1354 Transformer Renewal 2018_19 2023_24-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1355 Installation of Fibre Networks Phase 2-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1356 Protection Reyrolle OHx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-OER 1357 Various Location Disconnecter Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1358 Various Location Steelwork Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1360 50V and 110V NiCad Battery Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1361 50V Rack Power Supply Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1362 50V and 110V Battery Charger Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1365 Telecommunications SDH Network Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1366 Substation Security Zone (SSZ) Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1367 KCR ER0 33kV Tertiary Reactor Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1368 Protection Feeder OC Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1370 Protection UFLS Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1371 Protection VF Intertrip Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1375 Substation Based PC Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1376 Protection Alstom Pxxx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1377 Protection ABB Relays Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1379 Protection GE Multilin Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1380 Protection Schweitzer SELxxx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1381 Protection Siemens 7xx Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1386 Protection Transformer Diff Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1387 Protection Capacitor Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1389 Protection Busbar Condition-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1398 CCTV System Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1399 Yass 330kV Bus CB Capacity Augmentation New-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1407 93 330kV Transmission Line Renew-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1408 23 330kV Transmission Line Renew-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1411 2M 330kV Transmission Line Renewal-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1412 Gunnedah_Narrabri66kV Voltage Control-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-OER 1421 Transformer AVR Functional Change-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1423 Improving VHF Telecommunications OTN-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-OER 1437 Macarthur 66 kV Line Switchbay-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-OER 1513 Koolkhan 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

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TransGrid-OER 1517 Lismore 415V AC Dist. Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1519 Liverpool 415V AC Dist Replacement-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1401 Gadara Transfer Tripping Scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1402 Guthega Remote Relay Interrogation NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1426 Wagga132kV TL99X Rating Upgrade NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1459 Cooma Area Transfer Tripping Scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1463 Remote Sites SCADA Capacity Augmentation NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1499 Deliniquin 66kV SCADA Capacity Augment NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1535 Albury Area Under Voltage Load Shedding NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1540 Increase Ratings of TL 051 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1557 Armidale CAP transfer tripping scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1579 Dynamic Line Rating Monitoring NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1626 Morvern 132kV TL 966 3_way Disconnectors NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
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TransGrid-NOS 1632 Ilford 132kV TL 94M 3_way Disconnectors NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1699 Capacitors to improve NSW_VIC limits NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1701 Capacitors to improve QNI limits NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1703 HV Plant Limitations on TL 70 and 71 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NOS 1713 SNY_NSW constraint Reactance on TL 2 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal

Document Name	Relationship
TransGrid-OER 1392 Short_term Rating of Tie Transformers NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1401 Gadara Transfer Tripping Scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1402 Guthega Remote Relay Interrogation NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1414 Taree 132kV Bus Capacity Augment NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1422 Remote or self reset of Bus Protection NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1426 Wagga132kV TL99X Rating Upgrade NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1459 Cooma Area Transfer Tripping Scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1463 Remote Sites SCADA Capacity Augmentation NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1477 North Western Transfer Tripping Scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1499 Delinquin 66kV SCADA Capacity Augment NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1520 OverVoltage Control after AUFLS Event NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1535 Albury Area Under Voltage Load Shedding NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1540 Increase Ratings of TL 051 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1557 Armidale CAP transfer tripping scheme NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1579 Dynamic Line Rating Monitoring NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1626 Morvern 132kV TL 966 3_way Disconnectors NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1627 Murrumbatemen 132kV TL 976 2 3_way Disconnectors NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1632 Ilford 132kV TL 94M 3_way Disconnectors NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1699 Capacitors to improve NSW_VIC limits NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1701 Capacitors to improve QNI limits NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1703 HV Plant Limitations on TL 70 and 71 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-OER 1713 SNY_NSW constraint Reactance on TL 2 NCIPAP-0117-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ACG-Debt and Equity Raising Transaction Costs-1214-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ACG-Working Capital_Relevance for the Assessment of Reference Tariffs-0302-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-AER benchmark reverse engineered for expert-0117-PUBLIC.xlsx	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Benchmarking of NSPs-0613-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Memo on TNSP Benchmarking Results-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Memo on TNSP Benchmarking Results-0714-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Memo on TNSP Benchmarking Results-1115-PUBLIC.pdf	Supporting Document to the Revenue Proposal

Document Name	Relationship
TransGrid-Economic Insights-Memo on TNSP Benchmarking Results-1116-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Response to Reports on DNSP Benchmarking-0415-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Economic Insights-Benchmarking of NSW and ACT DNSP Opex-1114-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ESC-Vic Gas DBs-1002-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Incenta-TransGrid DRC-0514-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Letter to AER regarding TransGrid 4 year carryover-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Mackay Humphreys Clark Nicholson Lind-Native Tree Dieback & Mortality NSW-0184-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NSW Trade & Investment-Productivity in NSW-0914-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-PC-Australias Urban Water Sector Inquiry Report Volume 1-0811-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-PC-Productivity Update-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-PwC-ENA Debt Raising and Refinancing Costs-0613-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-S&P-Corporate Ratings Criteria-0408-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-S&P-Methodology And Assumptions_Liquidity Descriptors For Global Corporate Issuers-0114-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-S&P-Methodology And Assumptions_Liquidity Descriptors For Global Corporate Issuers-0911-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-S&P-Refinancing & Liquidity Risk Remain-0408-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-S&P-Standardized Liquidity Descriptors-0710-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ACT-Utility Services Licence-1215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-AEMO-2016 Electricity Statement of Opportunities V2-0916-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-IEA-Renewable energy_Medium term market report 2016-0116-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-IEA-World Energy Outlook 2016-0116-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Ministry for Industry Resources and Energy-NSW Transmission Operators Licence-1215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NSW Department of Planning and Environment-nsw state and local government area household and implied dwelling projections 2016 xls-0716-PUBLIC.xlsx	Supporting Document to the Revenue Proposal
TransGrid-NSW Department of Planning and Environment-nsw state and local government area population projections 2016 xls-0716-PUBLIC.xlsx	Supporting Document to the Revenue Proposal
TransGrid-NSW Government-Sydney Metro City and South West Business Case Summary-1016-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ACCC-water pricing principles-0711-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ACompT-Applications by Public Interest Advocacy Centre Ltd and Ausgrid-0216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Ainsworth Partington Warren-Do Franking Credits Matter-0615-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Black Jensen Scholes-The Capital Asset Pricing Model_Some Empirical Tests-0172-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Black-Capital Market Equilibrium with Restricted Borrowing-0772-	Supporting Document to

Document Name	Relationship
PUBLIC.pdf	the Revenue Proposal
TransGrid-Brailsford Handley Maheswaran-Re exam of HistERP in Aust-0307-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Da Guo Jagannathan-Capital Asset Pricing Model for Cost of Equity Capital-0409-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Davis-Cost of Equity Issues-0511-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Dobbs et al-Diminishing Returns Why Investors need to Lower Their Expectations-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Dobbs Koller Lund-What Effects has Quantitative Easing Had on your Share Price-0114-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Duarte Rosa-The Equity Risk Premium Review of Models-0215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ENA-Response to AER Rate of Return Guideline Consultation Paper-0613-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ERA-ATCO FD amended-0315-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ERA-DBP Access Arrangement FD-0616-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ESC-Goulburn_Murray Water Price review-0216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-ESC-SA Water Regulatory Determination-0616-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Ethan Pipeline Income Fund-APA take over bid-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Fama French-The Capital Asset Pricing Model_Theory&Evidence-0104-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Fama Macbeth-Risk Return & Equilibrium-0573-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Fernandez et al-Market Risk Premium used in 71 Countries-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Friend Blume-Measurement of Portfolio Performance Under Uncertainty-0970-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Frontier Economics-An Appropriate Estimate of Gamma-0615-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Frontier Economics-An updated dividend drop_off estimate of theta-0916-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Grant Samuel-Fin Services & Independent Expert Report re Proposal by APA Group-0314-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Grundy-The Calculation of the Cost of Capital_Enventra-0910-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Handley Maheswaran-A Measure of the Efficacy of the Australian Imputation Tax System-0308-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Handley-A Note on the Valuation of Imputation Credits-1108-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Hathaway-Imputation Credit Redemption ATO Data 1988_2011-0514-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-IPART WACC update-0216-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Kothari Shanken Sloan-Cross Section of Expected Stock Returns-0395-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Lally van Zijl-Capital Gains Tax and the Capital Asset Pricing Model-0103-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Lally-Gamma & The ACT Decision-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Lally-The Dividend Growth Model-0313-PUBLIC.pdf	Supporting Document to the Revenue Proposal

Document Name	Relationship
TransGrid-Lally-The Estimation of Gamma-1113-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-McKenzie and Partington-To the AER Dividend Growth Model-0513-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-McKenzie Partington-Estimation&Theory of Theta-0311-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-McKenzie Partington-Report to QLD Resource Council-1013-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-McKenzie Partington-To the AER Return on Equity-1014-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Monkhouse-The Cost of Equity Under the Australian Dividend Imputation Tax System-0193-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Monkhouse-The Valuation of Projects Under the Dividend Imputation Tax System-0196-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NERA Strunk-The Decoupling of Treasury Yields & Cost of Equity for Public Entities-0614-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-NERA-Report on Estimating Distribution and Redemption Rates from Taxation Statistics-0415-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Officer-The Cost of Capital of a Company Under an Imputation Tax System-0194-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Ofgem-Glossary of Terms_RIIO_T1 and GD1 review-0311-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Ofgem-Methodology for Assessing the Equity Mkt Return-0214-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Pacific Brands Acquisition by HBI Australian Acquisition-0516-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Partington and Satchell-For AER Analysis of Criticisms 2015 decisions-1015-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Partington and Satchell-For AER Cost of Equity issues 2016 Electricity and Gas Determinations-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Partington and Satchell-To the AER Return on Equity re JGN-0515-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Partington-To the AER Return on Equity updated-0415-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Patties Food Acquisition-0716-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-QCA-DBCT draft Access Undertaking-0416-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-RBA-Stevens Speech The World Economy & Australia-0415-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SACOSS-Submission to AER on SA Power Networks 2015_2020 Regulatory Proposal-0115-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-Alternative versions of the dividend discount model and the implied cost of equity-0514-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-An Appropriate Regulatory Estimate of Gamma-0514-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-Dividend Drop_off Estimate of Theta-0311-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-Estimating Gamma for Regulatory Purposes-0215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-The required Cost of Equity for Gas & Electricity Businesses-0514-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-The Required Cost of Equity for the Benchmark Efficient Entity-0215-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-SFG-Updated Dividend Drop_off Estimate of Theta-0513-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-STW WPP Merger-0316-PUBLIC.pdf	Supporting Document to the Revenue Proposal

Document Name	Relationship
TransGrid-USA Federal Energy Regulatory Commission-CAPM_Docket Nos_EL13_33_002 and EL14_86_000-0316-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-USA Federal Energy Regulatory Commission-Opinion 531 rule-0614-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Wright Mason Miles-A Study Into Certain Aspects of the Cost of Capital for Regulated Utilities in UK-0203-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Wright Smithers-The Cost of Equity for Regulated Companies Review for Ofgem-0115-PUBLIC.pdf	Supporting Document to the Revenue Proposal
TransGrid-Aurecon-Risk Audit-0515-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-Cutler Merz Risk Audit-1016-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-Reset RIN Statutory Declaration-0117-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party PO-0616-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party PO-1116-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party PR-0616-CONFIDENTIAL.pdf	Supporting Document to the RIN
TransGrid-Aurecon-Risk Audit-0515-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Cutler Merz Risk Audit-1016-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Employees Agreement 2013-0514-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Forecasting Methodology-0616-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Herbert Smith Freehills-NSW Transmission Lease-1215-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Material Failure of SCADA 2006_2015-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-NEFR Demand Review-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Network Management Plan 2013 to 2018-0612-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-NSW SCADA Minutes Lost_2016-1016-PUBLIC.msg	Supporting Document to the RIN
TransGrid-NSW SCADA Minutes Lost_2014-1016-PUBLIC.msg	Supporting Document to the RIN
TransGrid-NSW SCADA Minutes Lost_2015-1016-PUBLIC.msg	Supporting Document to the RIN
TransGrid-NSW South Australia Interconnector Upgrade Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-OFS 1528 Reinforcement of Southern Network Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-OFS 1529 Reinforcement of Northern Network Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-OFS 1570 NSW South Australia Interconnector Upgrade Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-OFS 1746 Support South Western NSW for Renewables Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Outage List 2009_2013-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Outage List 2014_2015-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Past ENS Performance 2009_2013-1016-PUBLIC.xlsx	Supporting Document to the RIN

Document Name	Relationship
TransGrid-Past ENS Performance 2014-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Past ENS Performance 2015-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Project Deliverability-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Protection System Failures and Incorection Isolations 2009_2013-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Protection System Failures and Incorection Isolations 2014-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Protection System Failures and Incorection Isolations 2015-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-PwC-Reset RIN Independent Auditors Report-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-RE Request for Historical SCADA Minutes Lost Events 2006_2013-1016-PUBLIC.msg	Supporting Document to the RIN
TransGrid-Reinforcement of Northern Network Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Reinforcement of Southern Network Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Reset RIN Capex 4.3-0117-PUBLIC.xls	Supporting Document to the RIN
TransGrid-Reset RIN Repex Categories-0117-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Reset RIN Transmission Map Location and Rating-0117-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-RIN Response Related Party PO-0616-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party PO-1116-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party PR-0616-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-RIN Response Related Party Tenders-0214-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-RIN Response Related Party Tenders-0514-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-RIN Response Related Party Tenders-0814-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2010-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2011-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2012-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2013-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2014-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2015-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Compliance Review MIC Detail 2016-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-STPIS Service Component Reporting 2016 YTD as at 11Aug2016-1016-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Summary Table Wages-0117-PUBLIC.xlsx	Supporting Document to the RIN
TransGrid-Supply to Broken Hill Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN

Document Name	Relationship
TransGrid-Support South Western NSW for Renewables Contingent Project-0117-PUBLIC.pdf	Supporting Document to the RIN
TransGrid-Evans & Peck-CAM Model Functional Specification-1012-PUBLIC.pdf	Supporting Document to the RIN

(e) each document identified in paragraph 1.4(d) must be given a meaningful filename in the form: TransGrid – [Author] – [title] – [date] – [public/confidential], where:

(i) Author is the author of the file if not TransGrid, for example a consultant or other third party;

(ii) Title provides a meaningful description of the content of document, with limited reliance on acronyms or cross references, for example “Appendix 1A” is not meaningful, but “Appendix 1A – Cost allocation method” is;

(iii) Date is a relevant date associated with the file, generally the date the document was created; and

(iv) Public/confidential identifies if the file in its entirety can be published (public); or if it contains any information which is the subject of a claim for confidentiality in accordance with paragraph 28 of this notice (confidential).

All documents follow the specified naming convention

1.5 Provide for each material assumption identified in the response to paragraph 1.4(b):

(a) its source or basis;

(b) if applicable, its quantum;

(c) whether and how the assumption has been applied and was taken into account;

and

(d) the effect or impact of the assumption on the capital and operating expenditure forecasts in the forthcoming regulatory control period taking into account:

(i) the actual expenditure incurred during the current regulatory control period; and

(ii) the sensitivity of the forecast expenditure to the assumption.

Topic	Assumptions and Approach	Source/Basis	How applied?	Impact on capex/ opex?	Actual expenditure in current period	Sensitivity of forecast expenditure
Capex	All capex projects developed and forecast on the basis of current asset management procedures	NER	Internal procedures followed	CAPEX	Actual and forecast CAPEX current period: \$886 million.	High
Capex	Transmission reliability standards as set out in the NER and the draft IPART Electricity Transmission Reliability standards	NER & IPART Draft standards	Reliability standards basis of planning studies	CAPEX	Actual and forecast AUGEX current period: \$103 million.	Medium
Capex	Capital expenditure forecasts compliant with draft IPART Electricity Transmission Reliability standards	IPART Draft Standards	Reliability standards basis of planning studies	CAPEX	Actual and forecast AUGEX current period: \$103 million.	Medium
Capex	Compliance with legislative obligations and Australian standards	SAI Global & Legislative Jurisdictions	Australian Standards met and Legislation followed.	CAPEX	Actual and forecast CAPEX current period: \$886 million.	High

Topic	Assumptions and Approach	Source/Basis	How applied?	Impact on capex/ opex?	Actual expenditure in current period	Sensitivity of forecast expenditure
Capex	Application of good electricity industry practice	NER	Internal procedures followed	CAPEX	Actual and forecast CAPEX current period: \$886 million.	Medium
Capex	Individual project and program scopes developed to meet augmentation, replacement, security/compliance and other requirements	NER	Internal procedures followed	CAPEX	Actual and forecast CAPEX current period: \$886 million.	High
Capex	Cost estimates developed in compliance with 6A.6.7 Forecast capital expenditure of the NER	NER	Internal procedures followed	CAPEX	Actual and forecast CAPEX current period: \$886 million.	Medium
Demand Forecast	There are two main sources for the demand forecast: New South Wales state demand forecasts as set out in the National Electricity Forecasting Report 2016 published by AEMO Connection point demand forecasts as advised by NSW and ACT distribution network service providers and published in TransGrid's TAPR	AEMO & TAPR	Used in planning studies to identify needs and opportunities for AUGEX and to calculate the cost of customer reliability	CAPEX	Actual and forecast AUGEX current period: \$103 million.	Medium
Opex	Base year is 2016/17, which is an efficient and representative year from which to project operating expenditure for future years	Most appropriate year.	In accordance with opex model specification.	No impact on capex. Fundamental impact on opex; about 96% of forecast.	Not applicable. Forecast.	Directly proportional.

Topic	Assumptions and Approach	Source/Basis	How applied?	Impact on capex/ opex?	Actual expenditure in current period	Sensitivity of forecast expenditure
Opex	Forecast efficiency savings in 2017/18 will be sustainable and have been adjusted out of all future year forecasts	Target.	Direct from source.	Impact on opex. Refer to file: TransGrid 2019-23 - Final Regulatory Information Notice Templates, Tab: 2.17 Step Changes, Tb 2.17.5, Cell E57	Not applicable. Forecast.	Directly proportional.
Opex	Debt raising costs based on the costs facing a benchmark efficient firm, consistent with the approach to determining the allowed rate of return	Advice from Incenta.	Direct from source.	Impact on opex. Refer to TransGrid Revenue Proposal, 2018/19 to 2022/23, Section 6.4.5: Debt raising costs.	Not applicable. Forecast.	Proportional.
Step Changes	Appropriate Step Changes have been included in compliance with the NER	Internal poll of all business units.	Additive/subtractive step change to base year forecast.	No impact on capex. Impact on opex. Refer to file: TransGrid 2019-23 - Final Regulatory Information Notice Templates, Tab: 2.17 Step Changes, Tb 2.17.1, Row 27	Not applicable. Forecast.	Additive/subtractive.
Escalators	Inflation based on geometric average of Reserve Bank of Australia Statement on Monetary Policy for two years and the midpoint of its target range for eight years	AER PTRM approach, RBA forecast and monetary policy	Direct from the source	Impact on both opex and capex.	Not applicable. Forecast	Proportional

Topic	Assumptions and Approach	Source/Basis	How applied?	Impact on capex/ opex?	Actual expenditure in current period	Sensitivity of forecast expenditure
Escalators	Labour cost escalation based on WPI forecasts for the Australia EGWWS sector by BIS Shrapnel	BIS Shrapnel	In accordance with opex model specification and CAM.	Impact on both opex and capex.	Refer to file: TransGrid 2019-23 - Final Regulatory Information Notice Templates, Tab: 2.14 Forecast price changes, Tb 2.14.1, Cells C45 - E45	Proportional, after labour weighting applied.
Escalators	Market-based commodities, property and construction are escalated on CPI	TransGrid internal analysis based on BIS Shrapnel forecast	In accordance with opex model specification and CAM.	Impact on capex	Not applicable. Forecast	1% increase in commodities, property & construction escalation increases the capex request by 0.3%.
Escalators	Network growth estimated based on forecast augmentation expenditure (stripped of any real price escalation) resulting in a change to network size as a proportion of replacement value of the network	Advice from TransGrid Advisory Council, similar to AusNet approach recently accepted by AER.	In accordance with opex model specification.	Impact on opex. Refer to file: TransGrid 2019-23 - Final Regulatory Information Notice Templates, Tab: 2.16 Opex Summary, Tb 2.16.1, Cells C15 - I15	Not applicable. Forecast	Approximately a 1% change in network size (measured in terms of replacement cost) would result in a 0.5% increase in opex requirement.

Topic	Assumptions and Approach	Source/Basis	How applied?	Impact on capex/ opex?	Actual expenditure in current period	Sensitivity of forecast expenditure
Escalators	Industry productivity trend assumed to be zero based on the majority of all measures indicating negative industry productivity	Concerns about the accuracy of the AER measures of industry productivity. Three separate measures that indicate declining utility productivity.	In accordance with opex model specification.	None.	Not applicable. Forecast	Proportional.
Cost of Debt	Market based approach is used for gamma - 0.25 has been adopted.	Advice from Frontier Economics	Direct from source	None	None	None
Cost of Debt	AER transition to trailing average for costs of debt	RBA and BVAL data	Applied in AER return on debt Model	None	None	None
Cost of Equity	Market Risk Premium 7.5% based on AER guideline approach using updated market data	Advice from Frontier Economics	Direct from source	None	None	None
Cost of Equity	Beta 0.7 based on AER guideline approach	Advice from Frontier Economics	Direct from source	None	None	None
Cost of Equity	Risk free rate 2.24%, this is a placeholder to be updated based on the observation period in 2018	RBA data	Applied in AER return on debt Model	None	None	None

1.6 Provide reconciliation of the capital and operating expenditure forecasts provided in the regulatory templates to the ex-ante capital and operating allowances in the Post-Tax Revenue Model for the forthcoming regulatory control period.

Opex and capex forecast used in both the PTRM and the regulatory templates fully align to the forecasts from TransGrid's Opex model and Capital Accumulation Model.

1.7 Where the revenue proposal varies or departs from the application of any component or parameter of the efficiency benefit sharing scheme, capital expenditure sharing scheme or service target performance incentive scheme, for each variation or departure explain:

(a) the reasons for the variation or departure, including why the departure is appropriate;

Refer to TransGrid's Revenue Proposal for the period 2018/19 to 2022/23, Chapter 13: Efficiency Benefit Sharing Scheme of document TransGrid –Revenue Proposal 18_19 to 22_23 – 0117 - PUBLIC

(b) how the variation or departure aligns with the objectives contained in the relevant scheme; and

Refer to TransGrid's Revenue Proposal for the period 2018/19 to 2022/23, {Chapter 13: Efficiency Benefit Sharing Scheme of document TransGrid –Revenue Proposal 18_19 to 22_23 – 0117 - PUBLIC

(c) how the proposed variation or departure will impact the operation of the relevant scheme.

Refer to

- TransGrid's Revenue Proposal for the period 2018/19 to 2022/23, Chapter 13: Efficiency Benefit Sharing Scheme of document TransGrid –Revenue Proposal 18_19 to 22_23 – 0117 - PUBLIC
- TransGrid's Revenue Reset RIN response template "7.5 EBSS" of document TransGrid – 18_19 to 22_23 Final Regulatory Information Notice Templates – 0117-PUBLIC

Schedule 1: 21. Other Information

21.1 Provide a statement of whether or not TransGrid's revenue proposal is consistent with the most recent NTNDP and, if it is inconsistent, identify and give reasons for any inconsistency

Refer to TransGrid's Revenue Proposal for the period 2018/19 to 2022/23, Section 5.8.8 of document TransGrid –Revenue Proposal 18_19 to 22_23 – 0117 - PUBLIC

21.2 Provide an overview paper which includes:

(a) a summary of the revenue proposal the purpose of which is to explain the revenue proposal in reasonably plain language to electricity consumers;

Refer to TransGrid – Appendix C Consumer engagement activities, feedback and TransGrid's response – 0117 – PUBLIC.

(b) a description of how TransGrid has engaged with electricity consumers and has sought to address any relevant concerns identified as a result of that engagement;

Refer to TransGrid – Appendix C Consumer engagement activities, feedback and TransGrid's response – 0117 – PUBLIC.

(c) a description of the key risks and benefits of the revenue proposal for electricity consumers; and

Refer to TransGrid – Appendix C Consumer engagement activities, feedback and TransGrid's response – 0117 – PUBLIC.

(d) a comparison of TransGrid's proposed total revenue cap with its total revenue cap for the current regulatory control period.

TransGrid's proposed smoothed MAR for the 2018/19-2022/23 regulatory period is \$4,069.5m (\$nominal). The AER's updated decision on smoothed MAR for the 2014/15-2017/18 regulatory period is \$3,025.9m. Please note that the 2014/15-2017/18 is a four year period and 2018/19-2022/23 is a five year period.

21.3 Provide the commencement and length of the forthcoming regulatory control period proposed by TransGrid.

- Commences 1 July 2018
- Duration of 5 years

Schedule 1: 25. Transitional Issues

25.1 Provide information on existing potential transitional issues (expressly identified in the NER or otherwise) which TransGrid expects will have a material impact on it and should be considered by the AER in making its transmission determination. For each issue, set out the following information:

(a) the transitional issue;

(b) what has caused the transitional issue;

(c) how the transitional issue impacts on TransGrid; and

(d) how TransGrid considers the transitional issue could be addressed.

TransGrid is not aware of any transitional issues

Schedule 2: 1. Prepare Information

1.3 Prepare all information required under this notice in a manner and form:

- (a) that is in accordance with the requirements specified at Schedule 1;**
- (b) which:**
 - (i) is in an electronic format;**
 - (ii) includes (where applicable) all underlying calculations and formulae;**
 - (iii) is not protected or password protected;**
 - (iv) where relevant, allows for precedents and dependants to be traced;**
 - (v)**
 - (vi) Is fully searchable, in text readable format and is capable of text selection and a 'copy and paste' function being applied to it (we prefer that all files be provided in Microsoft Word, Microsoft Excel or PDF);**
- (c) that is readily available for inspection by, or submission to, the AER.**

All information is prepared in accordance with these requirements

Schedule 2: 2. Maintain Information

2.1 Maintain, from the date of this notice until 30 June 2025, all information prepared under this Schedule 2.

All information prepared under this Schedule 2 will be maintained until 30 June 2025