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BBI DATA MODELLING REASONABLENESS ASSURANCE – NZGP1.1

TRANSPower NEW ZEALAND LIMITED



Document Information

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Document Status:	Version 1.2
Date:	10 Dec 2025

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Executive Summary

Broad Solutions Limited (BSL) has been engaged by Transpower New Zealand Limited (TPNZ) to undertake external assurance related to the market modelling involved for TPNZ's Net Zero Grid Pathways Phase 1 (NZGP 1.1). The purpose of this work is to provide comfort over TPNZ's internal QA and to identify any potential issues that may exist in TPNZ's modelling and analysis process. This report contains our independent expert assessment of the modelling and analysis related to the modelling and analysis processes undertaken related to this project.

Each item listed in TPNZ's set of internal QA records was checked. We first verified that all stated records correspond to relevant internal materials (e.g. Excel worksheets, case files, HTML outputs etc). We then verified that these internal materials correspond accurately to their related QA test records (e.g. correct scenarios are checked, outcomes are the same as those stated in QA records).

We then assessed all internal QA records. **In general, we found that internal QA records are accurate, and that the modelling process carried out is sound.** In some cases, minor issues have been identified and commented upon by TPNZ during the internal QA process, which have been further assessed and commented upon by BSL.

1 Introduction

Broad Solutions Limited (BSL) has been engaged by Transpower New Zealand Limited (TPNZ) to undertake external assurance of the electricity market modelling undertaken for the Net Zero Grid Pathways Phase 1 (NZGP 1.1) Major Capex Proposal (MCP). Specifically, to provide comfort in the OptGen/SDDP modelling process undertaken.

BSL is a long-standing consultancy company that services various markets - both domestic and internationally - in advice, assurance services, model development and analytics relating to energy market modelling and market risk. We regularly undertake development and audit/review projects in the areas of electricity market analysis with a focus on the renewable transition and energy storage solutions.

1.1 Purpose of this Report

The purpose of this report is to provide assurance of the reasonableness of the market modelling used in calculating estimates of the benefit-based investment (BBI) charges for Net Zero Grid Pathways Phase 1 MCP, to ensure the modelling inputs and outputs are reasonable, logical and conform to expected and reasonable operating thresholds. We seek to achieve the following core outcome through this assurance:

- Provide an independent expert review and report relating to TPNZ's PSR OptGen and SDDP modelling used in the application of the Investment Test and BBI allocations for the NZGP1.1 proposal. This relates to checking and validating that the OptGen and SDDP input files align with TPM Assumption Book where they should, and where they do not, to ensure that the differences are justified, and reviewing specific SDDP and OptGen input files are both reasonable and consistent with TPNZ's internal documentation.
- Transpower has established an internal assurance process and completed a substantial amount of self-assurance. BSL will incorporate/review these documents and findings to support the assessment of the modelling reasonableness.

1.2 Key findings

All results in the report are based on modelling undertaken for the NZGP1.1 MCP. The review focuses on the market modelling undertaken, the model inputs/outputs, and assumptions of the BBI allocations. **BSL found that all results were within acceptable tolerances.**

2 Methodology

This report contributes to a comprehensive chain of assurance over TPNZ's modelling, which includes:

- **Review of TPNZ's internal assurance records:**
 - Checking materials referenced in TPNZ's internal assurance records, verifying that stated outcomes can be traced back to their source material.
 - Verifying that stated outcomes are an accurate reflection of the tests carried out.
 - Providing commentary on any notable outcomes and consideration of further assurance tests that may be carried out to provide comfort surrounding the modelling process and outcomes.
- **Review the relevant files within SDDP/Optgen cases:**
 - Checking that the cases matches the master list.
 - Reviewing/validating the input and output files that corresponds to the list of tests carried out, and providing commentary on key observations.
 - Reviewing modelling configuration and settings to be consistent with the scope of work.
 - Verifying that stated outcomes are an accurate reflection of the tests carried out.

3 Files/Cases reviewed

- NZGP_TWISay_TPM_DIS_POL_CF_iter002
- NZGP_TWISay_TPM_DIS_POL_FCT_iter002
- NZGP_TWISay_TPM_DIS_SIM_CNI_CF_iter002
- NZGP_TWISay_TPM_DIS_SIM_CNI_FCT_iter002
- NZGP_TWISay_TPM_DIS_SIM_HVDC_CF_iter002
- NZGP_TWISay_TPM_DIS_SIM_HVDC_FCT_iter002
- NZGP_TWISay_TPM_ENV_POL_CF
- NZGP_TWISay_TPM_ENV_POL_FCT
- NZGP_TWISay_TPM_ENV_SIM_CNI_CF
- NZGP_TWISay_TPM_ENV_SIM_CNI_FCT
- NZGP_TWISay_TPM_ENV_SIM_HVDC_CF
- NZGP_TWISay_TPM_ENV_SIM_HVDC_FCT
- NZGP_TWISay_TPM_GLB_POL_CF
- NZGP_TWISay_TPM_GLB_POL_FCT
- NZGP_TWISay_TPM_GLB_SIM_CNI_CF
- NZGP_TWISay_TPM_GLB_SIM_CNI_FCT
- NZGP_TWISay_TPM_GLB_SIM_HVDC_CF
- NZGP_TWISay_TPM_GLB_SIM_HVDC_FCT
- NZGP_TWISay_TPM_GRW_POL_CF
- NZGP_TWISay_TPM_GRW_POL_FCT
- NZGP_TWISay_TPM_GRW_SIM_CNI_CF
- NZGP_TWISay_TPM_GRW_SIM_CNI_FCT
- NZGP_TWISay_TPM_GRW_SIM_HVDC_CF
- NZGP_TWISay_TPM_GRW_SIM_HVDC_FCT
- NZGP_TWISay_TPM_REF_POL_CF
- NZGP_TWISay_TPM_REF_POL_FCT

- NZGP_TWISay_TPM_REF_SIM_CNI_CF
- NZGP_TWISay_TPM_REF_SIM_CNI_FCT
- NZGP_TWISay_TPM_REF_SIM_HVDC_CF
- NZGP_TWISay_TPM_REF_SIM_HVDC_FCT
- SDDP_hrly_sim_2045cirflw_env_cf
- SDDP_hrly_sim_2045cirflw_env_cf_cirLoadLimTest
- NZGP_TWISays_TPM_DIS_OG2_FCT
- NZGP_TWISays_TPM_DIS_OG2_CF
- NZGP_TWISay_TPM_Reference_OG2_FCT_Prod
- NZGP_TWISay_TPM_Reference_OG2_CF_Prod
- NZGP_TWISay_TPM_Growth_OG2_FCT_Prod
- NZGP_TWISay_TPM_Growth_OG2_CF_Prod
- NZGP_TWISay_TPM_Global_OG2_FCT_Prod
- NZGP_TWISay_TPM_Global_OG2_CF_Prod
- NZGP_TWISay_TPM_Environmental_OG2_FCT_Prod
- NZGP_TWISay_TPM_Environmental_OG2_CF_Prod
- NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
- optgen_sddp_inputs_qa_report.html
- sddp_qa_report_hvdc.html
- NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf
- NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf
- allDiff.pdf
- Index.dat
- SDDP.html
- SDDP.dat
- changed_dat_files_analysis.xlsx
- opt2_optgconvd.csv
- build_comp_wind_solar.html
- build_comp_biofuel_batt_geoTherm_therm.html
- retire_therm.html
- rev_adequacy.html
- sddpcoped_comp.xlsx
- sddp_qa_report_cni.html
- rev_adequacy.html
- cgndni/si.dat
- cgndni/ni.dat
- csumcirc.dat
- optgen_policy_qa_report.html
- mcirc.dat
- Sddpcoped.dat
- Losses_sddp_test.xlsx
- hrloadni_w.dat
- hrloadsi_w.dat
- dclink.dat
- TPM Assumptions Book (V2.0)
- TPM Assumptions Book (V1.1)

4 Findings from Internal QA

The tables below record our review of TPNZ’s set of internal QA tests. It contains notable commentary on these tests and the files that were used in our review process.

Possible test outcomes are as follows:

- Pass: test passed without caveat
- Pass*: test passed with non-material issues noted
- Fail: test failed
- N/A: not applicable for this assurance

SDDP and OptGen Input Checks

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Master model inputs have been used	Pass	Some differences had been noted by TPNZ (Waipori had been modelled as multiple stations and AC grid unconstrained for Optgen cases), changes had been minor and noted in consultation documentation.	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
Inputs are consistent with the BBI Assumptions Book	Pass	None	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf

Bus configuration mapping is correct	Pass	There was a bug identified that created a test failed. This had been visually confirmed to be correct.	Optgen_sddp_inputs_qa_report/ optgen_sddp_inputs_qa_report.html NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
Optgen minimum and maximum constraint plant id numbers are correct	Pass	Optgen minimum and maximum constraints not relevant (not used for NZGP 1.1).	optgen_sddp_inputs_qa_report.html NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
HVDC configuration mapping is correct	Pass	None	Optgen_sddp_inputs_qa_report/ sddp_qa_report_hvdc.html optgen_sddp_inputs_qa_report.html Relevant dclink.dat and mdclink.dat files NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
HVDC upgrade timings and capacities are correct	Pass	HVDC poles capacity and timings are applied consistently across the scenarios, checked for all scenarios fct and cf.	Sddp_run_check/sddp_qa_report_hvdc.html Relevant dclink.dat and mdclink.dat files NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
Plant configurations are correct	N/A	This BBI Allocation takes the IT inputs as a given (previously assured). No plants are not assigned to busses.	optgen_sddp_inputs_qa_report.html NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf

Embedded generation is modelled correctly	N/A	This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf cgndni/si.dat cgndni/ni.dat <i>From OptGen database</i>
Existing grid SDDP circuit inputs are correct	N/A	This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
Hydro inflows have been updated correctly	N/A	This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
Cogeneration and hydro plant constraints are correct	N/A	This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf

Optgen and SDDP policy run input and configuration checks

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Modelling scope is as agreed with the project team	N/A	Scope is the repeat for NZGP1-1 but with Tiwai stays in 2024.	NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf
File copiers are correct	Pass	None	NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf allDiff.pdf
Optgen configuration has been checked	Pass	None	NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf

SDDP configuration has been checked	Pass	Correct horizon (21 years starting from 2023), 50 ARP hydro scenarios, and key configurations are as expected.	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf Index.dat SDDP.html SDDP.dat <i>From master model inputs and policy inputs</i>
Case folder contents are correct	Pass	Downloaded PSR_Cloud case files, visually checked the expected files are present in POL/OG2 folders, checked against the master list.	Optgen and SDDP Policy Run Checks\changed_dat_files_analysis.xlsx NZGP1-1_TiwaiStays_BBI_QA Record_ Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf

Check OptGen case results

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Optgen has successfully converged	Pass	Convergence reporting gap within reasonable bounds, no negative gaps and converged within the max iteration.	opt2_optgconvd.csv <i>All OG2 cases</i> NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf
The generation plan is reasonable	Pass	<p>Generally, more wind being built organically over time compared to solar, most solar builds occurs in 2025-26 and 2036-37. Wind is built earlier and in greater amounts for Tiwai stays.</p> <p>Expansion plan has been adjusted for revenue adequacy for Tiwai stays, and retirement dates match those from Assumptions Book v1.1, some of the Huntly retirement dates may need to be reviewed with most recent developments.</p>	Optgen and SDDP Policy Run Checks\ build_comp_wind_solar.html build_comp_biofuel_batt_geoTherm_therm.html retire_therm.html rev_adequacy.html NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf

Check SDDP policy case results

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
SDDP has successfully converged	Pass	SDDP policy cases had all converged successfully, consistent across the various different cases reviewed.	SDDP.html <i>All SDDP policy solutions</i> NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf
Average SDDP operating costs are reasonable	Pass	Looking at the SDDP OPEX, noted that the FCT is not always lower than CF, but overall trend FCT is improvement and range is reasonable.	SDDP.html <i>All SDDP policy solutions</i> sddpcoped_comp.xlsx sddp_qa_report_cni.html
SRMCs are reasonable	Pass	The annual marginal costs numbers are consistent across cases.	SDDP.html <i>All SDDP policy solutions</i>
New projects are revenue adequate within acceptable bounds	Pass*	The projects below 0.9 revenue adequacy had been listed and identified by TPNZ, and separately assessed.	Optgen and SDDP Policy Run Checks\ optgen_policy_qa_report.html rev_adequacy.html

The amount of deficit is reasonable	Pass	In the realms of a few GWh to 10s of GWh each year (for each NI and SI), within reasonable bounds.	SDDP.html <i>All SDDP policy solutions</i>
Generation flows are reasonable	Pass	Some of the Geothermal utilization is on the low side (under 60%), but overall reasonable utilization.	Optgen and SDDP Policy Run Checks\ optgen_policy_qa_report.html
Renewable spill is reasonable	Pass	Generally, very little or no renewable spill, hydro alert storage is the buffer most of the time.	SDDP.html <i>All SDDP policy solutions</i>
HVDC flows are reasonable	Pass	Checked and pass, the P10 to P100 for all polices are reasonable.	Optgen and SDDP Policy Run Checks\ optgen_policy_qa_report.html sddp_qa_report_hvdc.html

SDDP simulation run input and configuration checks

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Modelling scope is as agreed with the project team	N/A	No modelling memo for this work, scope if a repeat of the BBI modelling as previously completed for NZGP1-1 accounting for Tiwai stays in 2024.	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf

Check SDDP configuration	Pass	None	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf Index.dat SDDP.html SDDP.dat
File copiers are correct	Pass	Consistent source inputs that align with the case descriptions. Hourly sims link to the correct policy case.	NZGP1-1_TiwaiStays_BBI_QA Record_ Optgen_Run_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf
Case folder contents are correct	Pass	Downloaded PSR_Cloud case files, and visually checked the expected files are present in SIM folders, checked against the master list.	Optgen and SDDP Policy Run Checks\changed_dat_files_analysis.xlsx NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf allDiff.pdf

SDDP simulation circuit checks

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
SDDP circuit inputs are correct	N/A	This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf mcirc.dat

SDDP simulation checks

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Circuit inputs map to bus configuration	Pass	None	SDDP run checks\sddp_qa_report_cni.html SDDP run checks\sddp_qa_report_hvdc.html
Average SDDP operating costs are reasonable	Pass	None	SDDP run checks\sddp_qa_report_cni.html Relevant SDDP.html files
Average bus price for BEN220, HAY220 and key buses are reasonable	Pass	Prices tend to collapse around 2037-38, result of overbuild in respond to thermal retirements. Price separation magnitude and direction is reasonable (higher in the NI) due to Northward flow from South Island.	sddp_run_check/sddp_qa_report_cni.html sddp_run_check/sddp_qa_report_hvdc.html NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf SDDP.html <i>All SDDP simulation solutions</i>
Average plant utilisation is reasonable	Pass*	TPNZ has noted instances where stations fall outside min/max utilisation bounds. Some thermal peakers and geothermal plants falling below min utilization, as they are both not must run and dispatched off in some scenarios due to emissions costs. The geothermal capacity factor should be reviewed for other MCPs.	sddp_run_check/sddp_qa_report_cni.html sddp_run_check/sddp_qa_report_hvdc.html NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf SDDP.html <i>All SDDP simulation solutions</i>

HVDC flows are reasonable	Pass	Majority of the P100 shows significant binding particularly for North flows. The flow duration curves shown for 2035 looks reasonable.	sddp_run_check/sddp_qa_report_cni.html sddp_run_check/sddp_qa_report_hvdc.html SDDP.html <i>All SDDP simulation solutions</i>
Average SDDP benefits are reasonable	N/A	This check is not required for a BBI allocation.	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf
SDDP benefits over time are reasonable	N/A	This check is not required for a BBI allocation.	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf
circuit inputs are correct (visual spot check)	N/A	Spot checks done on mcirc.dat files across the SDDP cases, no material differences observed. This BBI Allocation takes the IT inputs as a given (previously assured).	NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Optgen_Inputs_Checks.pdf NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf mcirc.dat
Transmission flows are reasonable	Pass	Very brief periods where post contingent limits were slightly exceeded (around 0.2% of total hours). The reason for this was investigated and explained by TPNZ. Checked the deficit and operating costs between the test cases where circuit flows post-contingent limits was lowered (from 0.7 to 0.4), the changes were minimal (1.43% and 0.11% drop), circuit overloads are not considered to be material.	SDDP_hrly_sim_2045cirflw_env_cf_cirLoadLimTest\Sddpcoped.dat SDDP_hrly_sim_2045cirflw_env_cf\Sddpcoped.dat sddpcoped_comp.xlsx SDDP run checks\Losses_sddp_test NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf

Transmission loss benefits are reasonable	Pass	<p>Losses modelled explicitly on monitored circuits, represented by SRMC price differences.</p> <p>An expected cost difference with no losses vs losses modelled explicitly, operating costs around 2.7% higher with losses modelled for the test case.</p>	<p>NZGP1-1_TiwaiStays_BBI_QA Record_SDDP_Run_Checks.pdf</p> <p>SDDP run checks\Losses_sddp_test</p>
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Demand Input Review

Check	QA Check Result	BSL Comment on Internal QA outcome	Files Checked/Reviewed
Demand forecast inputs align with expectations	Pass	Reviewed the NI + SI annual TWh numbers, align with expectations for the 5 demand scenarios and is roughly 5 TWh higher with Tiwai staying.	hrloadni_w.dat and hrloadsi_w.dat From Optgen and SDDP runs

BBI Related Review

Check	QA Check Result	BSL Comment on QA outcome	Files Checked/Reviewed
Revenue/cost deltas are consistent with TPM beneficiaries	N/A	Post-processing for BBI calculations separately assured.	Relevant SDDP.html files
Projected deficit amounts are reasonable	Pass	In the realms of a few GWh to 10s of GWh each year (for each NI and SI), between 3.5% and up to 9.1% of OPEX cost, within reasonable bounds.	sddp_qa_report_hvdc.html sddp_qa_report_cni.html optgen_policy_qa_report.html NZGP1-1_TiwaiStays_BBI_QA Record_Optgen_Run_Checks.pdf Relevant SDDP.html files
Decision to use clause 52 for BBI calculations is reasonable.	N/A	Post-processing for BBI calculations separately assured.	TPM Assumptions Book (V2.0) TPM Assumptions Book (V1.1)

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