

Appendix B Redline notice: Investment pipeline

This appendix shows changes that have been made to the 2.16 notice as consulted on. Amendments in this appendix are displayed as:

- (a) *added text or formatting compared to our consultation paper is red underlined*
- (b) *deleted text or formatting compared to our consultation paper is ~~red strikethrough~~.*
- (c) *text that has been moved between notices in the amended 2.16 notices is in blue underlined and ~~blue strikethrough~~*

The Authority has made changes to the order of categories in the 2.16 notice, as well as separating aspects of the 2.16 notice into separate tables as part of the notice to improve the readability of the notice and to make it easier for Transpower to respond.

This investment pipeline notice is published under clause 2.16 of the Electricity Industry Participation Code 2010 (Code). This notice applies from 1 February 2025.

Overview

Clause 2.16(1) of the Code enables the Electricity Authority Te Mana Hiko (Authority) to publish a notice specifying information that a participant must, on a regular basis or as a result of an identified event, collect, collate and/or provide to the Authority.

The provision of the required information to the Authority as specified in this notice is for a purpose set out in section 45(a) of the Electricity Industry Act 2010 (~~the Act~~), specifically to undertake market-facilitation measures under section 16(1)(f) and to undertake industry and market monitoring under section 16(1)(g) of the Act.

To whom the notice applies

The notice applies to Transpower as defined in section 5 of the Act.

When the information needs to be provided

All information is to be provided to the Authority monthly with the deadline for provision being the last business day of the month. If Transpower is unable to meet that deadline, it must let the Authority know five business days in advance, providing a reason for non-compliance.

The manner in which Transpower must provide the information

Transpower is required to comply with this notice and must provide the information to the Authority as a CSV file to be delivered to a secure Azure storage account. The Authority will provide Transpower with access and a template to provide information.

~~Transpower is required to comply with this notice and must provide the information to the Authority in a csv format, with data set out with one row per project and columns for each data variable.~~

Information that must be collected and provided

The information that Transpower is required to collect and provide to the Authority under this notice is specified below.

For the ~~variables~~ land, contracts, planning, finance, ~~and~~ construction ~~categories~~, only the current stage and milestones reached after the issuance of this notice will be required to be provided. Milestones (for example stages of the consenting process) reached prior to the issuance of this notice are not required to be provided.

Projects that have more than one type of generation as part of a single project (for example, solar projects with associated battery energy storage systems) should be split into separate projects and given the same name. This will better enable the provision of information about the generating characteristics of each technology type.

~~Developers, when providing information to Transpower, should note for each field whether they feel information provided is commercially sensitive.~~

The Authority does not expect that projects at the initial enquiry stage in Transpower's Connection Management Framework will be able to provide information for each category. The Authority does not expect Transpower to collect and provide all the information required by the notice for projects at the initial enquiry stage, because it might not exist at that stage. However, they should pass on all available information to the Authority about those projects.

The Authority's approach to assessing and publishing information

Transpower must ask developers to identify any information which the developer considers to be confidential, in accordance with clause 2.21 of the Code, and to explain why the information is confidential.

The Authority will handle this information in accordance with clause 2.22 of the Code. The Authority expects that Transpower will also provide developers the opportunity to provide a reason why the information is confidential for each information category developers identify as confidential. This will assist with the Authority's assessment of confidentiality under clause 2.22.

Developer and location information

<u>Variable Category</u>	<u>Data format</u>	<u>Definition</u>	<u>Purpose</u>
Connecting party / proponent	<u>Character</u>	The entity developing the project. If a joint venture, any entities participating in the joint venture should be listed.	Including information about the connecting party—and in particular, about any additional parties involved—is necessary to match public information about projects to information provided under the notice. It also improves monitoring by providing information to assess the breakdown of developers investing in generation in New Zealand.
Operator (<i>generation only</i>)	<u>Character</u>	If the planned operator of the plant is different to the connecting party / proponent, then provide the name of the operator (ie, the entity that will be submitting offers for the generating station)	This is helpful for the purposes of matching offers to the generation fleet. The operator of a plant may impact offers.
Date	<u>Datetime</u> <u>(YYYY/MM/DD)</u>	The date of the initial inquiry to Transpower	Information on the time since the initial enquiry will help the Authority monitor how long developments take to progress through the connection process, as well as monitoring trends in which projects are delivered
<u>Update date</u>		The date of the most recent update for the information in the submission	This information will improve the Authority's ability to process the data.

<p><u>Expected commissioning date</u></p>	<p><u>Datetime (YYYY/MM)</u></p>	<p><u>The month and year in which the developer expects to commission the generating station. If the expected commissioning month is not known (for example, for projects several years away from commissioning), use December of the expected year of commissioning</u></p>	<p><u>Collecting information on the year the developer expects to commission the generating station enables the Authority to assess the supply-demand balance, and to assess changes to project timelines over time.</u></p> <p><u>The Authority notes that previous data collation on generation investments has requested 'earliest commissioning date'. In our view, this has led to over-optimistic estimates and has not provided credible information to the market on when projects are likely to be commissioned. The intent of 'expected commissioning date' category is to collect a date that developers consider reasonable, in order to track these commitments against actual delivery.</u></p>
<p><u>Reasons for delay (generation only)</u></p>	<p><u>Character</u></p>	<p><u>If the expected commissioning date is later than previously provided, provide the main reason for the delay in commissioning. Select from:</u></p> <ul style="list-style-type: none"> • <u>Delay in consenting</u> • <u>Delay in securing project finance</u> • <u>Delay in construction</u> • <u>Prioritising other project(s)</u> • <u>Overseas Investment Act delays</u> • <u>Other</u> 	<p><u>This information will help the Authority assess potential barriers to connecting new generation.</u></p>

Project name	<u>Character</u>	The intended generating station name. If no formal name has been selected, a name can be a working name or linked to the location of the proposed generating station	Name information will help the Authority assess projects against any public or news information where necessary
Application number/project ID	<u>Character</u>	Identifier (intended to be a consistent number <u>value</u> to help the Authority to avoid duplicate projects)	Generation developments may change owner, developer, location, and size. As such, the Authority considers maintaining a consistent identifier to track when projects change and avoid publishing duplicated information is necessary
Connection location (GIP/GXP)	<u>Character</u>	GIP/GXP, if known or transmission circuit if requiring a new GIP/GXP.	Providing information to the market on the location of projects supports better assessments by market participants of where there is capacity on the transmission network to aid in planning for developments.
<u>Connection location (transmission circuit)</u>	<u>Character</u>	<u>Transmission circuit (if requiring a new GIP/GXP), if known.</u>	<u>As above</u>
<u>Location name</u>	<u>Character</u>	<u>Provide a name of the location of the project. This could be the name of the nearest town, the region or the local authority</u>	<u>As above</u>

<u>Co-ordinates – latitude</u>	<u>Double (degrees and decimal minutes)</u>	<u>Latitude and longitude (5 4 decimal places), if project site is known or anticipated</u>	As above. Also enables the Authority to publish visual information about projects to provide better information on the regional breakdown of developments
<u>Coordinates – longitude</u>	<u>Double (degrees and decimal minutes)</u>	<u>Longitude (4 decimal places), if project site is known or anticipated</u>	<u>As above</u>
<u>Connection management framework stage</u>	<u>Character</u>	<u>Choose from:</u> <ul style="list-style-type: none"> <u>Initial enquiry</u> <u>Concept assessment</u> <u>Application</u> <u>Investigation</u> <u>Delivery</u> 	<u>Collecting information about where projects are in Transpower’s connection management framework will assist in determining the progression of a project. It will also help to assess how much information the Authority expects the developer to provide. For example, projects at the ‘initial enquiry’ stage are unlikely to have any information available about consents, land, or financing.</u>

Project details

<u>Variable Category</u>	<u>Data format</u>	<u>Definition</u>	<u>Purpose and changes made from consultation</u>
Capacity – <u>actual</u> (generation only)	<u>Integer</u>	The planned capacity of the generating station provided in MW. If different, please provide both MWp and MWac. <u>For generating stations such as solar and wind farms where MWac may be different to MWp, provide the MWac figure.</u>	Capacity information for projects is necessary to assess capacity adequacy. This will also help the Authority assess how developments may change during the planning process

		<u>For projects that are upgrades of existing generating stations, this should be the net increase in overall capacity in MW.</u>	
<u>Capacity – peak (generation only)</u>	<u>Integer</u>	<u>For generating stations such as solar and wind farms where MWac may be different to MWp, provide the MWp figure.</u>	<u>Collecting differentiated information about MWp and MWac will better enable the Authority to assess the capacity factor and projected annual GWh, particularly for wind and solar projects.</u>
Projected demand (load <u>and storage only</u>)	<u>Integer</u>	The expected peak demand of the load, provided in MW <u>for projects related to new or existing direct connect consumers. For the avoidance of doubt this excludes distributors’ load growth at GXPs.</u> For battery energy storage systems, provide the charge rate. For pumped hydro, provide the maximum load.	As above. <u>The Authority does not expect Transpower to provide information on projected load growth at GXPs. This is intended to apply only to new or upgraded direct consumers.</u>
<u>Additional MW</u>		For projects to expand or repower existing generating stations—or for load—the additional MW value expected.	As above
Capacity factor (generation only)	<u>Double (0-1)</u>	A best estimate of the expected capacity factor, <u>if an assessment has been done (as a percentage).</u> <u>For projects that are upgrades of existing generating stations, this should be the increase in energy output relative to the increase in capacity.</u>	The Authority may be able to assess capacity factors using generalised capacity factors for different fuel types. For some fuel types, information provided by developers will provide a better assessment of capacity factor. This is particularly the case for wind developments, where projects are based on site monitoring for expected wind resource.

			This information may be more likely to be considered sensitive by participants and would be treated accordingly by the Authority.
Connection voltage	<u>Integer</u>	The connection voltage to the transmission network (in kV).	This information improves the Authority's monitoring and helps with assessments of capacity on the transmission network.
Technology type (<i>generation only</i>)	<u>Character</u>	<p>Selected from:</p> <ul style="list-style-type: none"> • Onshore wind • Offshore wind • Photovoltaic panels • Hydro • Pumped hydro • Geothermal • Open cycle gas turbine • Closed cycle gas turbine • Co-generation • Pulverised coal <u>Rankine</u> • Chemical battery energy storage • Waste to energy • Other (please specify) 	The fuel type options match the fuel type options currently used by the Authority in publishing information on existing generation and represent the main fuel types expected for new developments. 'Other' fuel types may include for example various types of thermal solar.

Fuel type (<i>thermal generation only</i>)	<u>Character</u>	<p>Selected from:</p> <ul style="list-style-type: none"> • Gas • Coal • Diesel • Biomass • A combination of the above fuel types 	This information enables better assessment of security of supply, capacity factor, and likely offer structure.
<u>Load type</u>	<u>Character</u>	<p><u>Selected from:</u></p> <ul style="list-style-type: none"> • <u>Transport</u> • <u>Process heat</u> • <u>Data centre</u> • <u>Other load</u> 	<u>This information matches the proposed categories for load as published in the Network Connections Project Stage 1 consultation.</u>
Asynchronous or synchronous (<i>generation only</i>)	<u>Character</u>	Whether the generating station is synchronous or an inverter-based resource (asynchronous)	This information will help the Authority assess the need for further policy work on frequency management, voltage and harmonics. ¹
Planned outage rates (<i>generation only</i>)		If contracts for supply and installation of generating equipment prescribe expected outage rates, provide that information (in trading periods per year or similar)	This information helps the Authority to monitor security of supply in summer and shoulder periods and helps improve information about capacity factor.

¹ See Review of the Common Quality Requirements in the Code consultation papers, June 2024, <https://www.ea.govt.nz/projects/all/future-security-and-resilience/consultation/review-of-common-quality-requirements-in-the-code/>

Battery		Does the generating station or load have an associated battery energy storage system as part of the project; response should be yes or no	This information improves clarity around the generation profile of new generation. For some projects, battery and energy projects may be included separately.
Storage capacity (generation only)	<u>Integer</u>	To be provided in MWh (for chemical battery energy storage and hydro only)	This will help the Authority assess capacity adequacy to manage peak demand

Project stage (generation and storage only)

This information is only required for generation and storage projects and does not include load projects.

Information in this section will be aggregated to form the Authority’s published stages—with some exceptions. Consenting details, construction commencement, and final investment decision will be published unless indicated as confidential, in which case we will assess the need to publish under clause 2.22 of the Code.

<u>Variable Category</u>	<u>Data format</u>	Definition	<u>Purpose and changes made from consultation</u>
Land – <u>commenced negotiations</u>	<u>Datetime (YYYY/MM/DD)</u>	<p>As per the definition for ‘committed projects’ in the Code: “The proponent has acquired or executed an agreement to acquire land (or commenced legal proceedings to acquire land), or has executed an agreement for the leasing of land, for the purposes of construction.”</p> <p>Select from:</p> <ul style="list-style-type: none"> The proponent has commenced negotiations to acquire or lease land for the purposes of construction 	<p><u>As per the definition for ‘committed projects’ in the Code: “The proponent has acquired or executed an agreement to acquire land (or commenced legal proceedings to acquire land), or has executed an agreement for the leasing of land, for the purposes of construction.”</u></p> <p>This information will inform the ‘project stage’ information for publication. Our intent at this stage is that this <u>This</u> information would will not be published individually, unless already public through other sources. Developers would be</p>

		<ul style="list-style-type: none"> • The proponent has commenced legal proceedings to acquire or lease land for the purposes of construction • The proponent has completed legal proceedings to acquire or lease land for the purposes of construction <p><u>If the project proponent has commenced negotiations to acquire or lease land for the purposes of construction, provide the date that the project met the criteria. If this does not apply, put N/A.</u></p>	requested to indicate when submitting information whether it is already in the public domain.
<u>Land – commenced legal proceedings</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the project proponent has commenced legal proceedings to acquire or lease land for the purposes of construction, provide the date that the project met the criteria. If this does not apply, put N/A.</u>	<u>As above</u>
<u>Land – completed legal proceedings</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the project proponent has completed legal proceedings to acquire or lease land for the purposes of construction, provide the date that the project met the criteria. If this does not apply, put N/A.</u>	<u>As above</u>
Contracts	<u>Datetime (YYYY/MM/DD)</u>	As per the definition for ‘committed projects’ in the Code: “contracts for supply and construction of the major components of the plant and equipment (including any generating units, turbines, boilers, transmission towers, conductors, termination station equipment) have been executed (i.e. all	This information will inform the ‘project stage’ information for publication. Our intent at this stage is that this information would not be published individually, unless already public through other sources. Developers would be requested to indicate when submitting

		<p>the necessary formal legal requirements have been observed to make the contract valid and complete)”</p> <p>Select yes or no</p> <p>If this applies, provide the date that the project met the criteria. If this does not apply, put N/A.</p>	<p>information whether it is already in the public domain.</p>
<p>Planning <u>process</u></p>	<p><u>Character</u></p>	<p>As per the definition for ‘committed projects’ in the Code: “the proponent has obtained all required planning consents, construction approvals, and licences, and fulfilled any other regulatory requirement that must be met before commencing construction”</p> <p>Select milestones <u>planning process</u>:</p> <ul style="list-style-type: none"> • Fast-track Approvals Bill consenting process • Interim NBA fast-track consenting process • Resource management Act 1991 consenting process <p>Under Fast-track Approvals Bill consenting process:</p> <ul style="list-style-type: none"> • Not yet applied • Application submitted 	<p><u>As per the definition for ‘committed projects’ in the Code: “the proponent has obtained all required planning consents, construction approvals, and licences, and fulfilled any other regulatory requirement that must be met before commencing construction”</u></p> <p>This information will inform the ‘project stage’ information for publication. Our intent at this stage is that this information would not be published individually, unless already public through other sources. Developers would be requested to indicate when submitting information whether it is already in the public domain.²</p>

² The Authority notes that the Government is currently progressing changes to resource management law, including a new consenting regime. Any subsequent changes to planning rules may result in future amendments to that notice, with consultation if required.

		<ul style="list-style-type: none"> ● Consent granted ● Consent declined ● Appealed ● Appeal decided—consent approved ● Appeal decided—consent declined <p>Under interim NBA fast-track consenting process:</p> <ul style="list-style-type: none"> ● Not yet applied ● Application submitted ● Consent granted ● Consent declined ● Appealed ● Appeal decided—consent approved ● Appeal decided—consent declined <p>Under Resource Management Act 1991 consenting process:</p> <ul style="list-style-type: none"> ● Not yet applied ● Application submitted ● Consent granted ● Consent declined ● Appealed ● Appeal decided—consent approved 	
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		<ul style="list-style-type: none"> • Appeal decided—consent declined <p>For each stage, provide the date at which the project proponent reached the relevant stage.</p> <p>If the consent has been granted (and is not subject to any appeals), provide the expiry date of the consent.</p>	
<u>Planning stage – Application submitted</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>Provide the date at which the project proponent first submitted an application for a consent. If this does not yet apply, put N/A.</u>	<u>As above</u>
<u>Planning stage – Consent granted</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent has been granted, provide the date it was granted. If this does not apply, put N/A.</u>	<u>As above</u>
<u>Planning stage – Consent declined</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent has been declined, provide the date it was declined. If this does not apply, put N/A.</u>	<u>As above</u>
<u>Planning stage – Appealed</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent is subject to an appeal, provide the date the consent was appealed. If this does not apply, put N/A.</u>	<u>As above</u>
<u>Planning stage – Appeal decided (consent approved)</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent was subject to an appeal, the appeal has been decided, and the consent has been approved, provide the date it was approved. If this does not apply, put N/A.</u>	<u>As above</u>
<u>Planning stage – Appeal decided (consent declined)</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent was subject to an appeal, the appeal has been decided, and the consent has been declined, provide the date it was declined. If this does not apply, put N/A.</u>	<u>As above</u>

<u>Consent expiry date</u>	<u>Datetime (YYYY/MM/DD)</u>	<u>If the consent has been granted (and is not subject to any appeals), provide the expiry date of the consent. If this does not apply, put N/A.</u>	<u>As above</u>
Finance	<u>Datetime (YYYY/MM/DD)</u>	<p>As per the definition for ‘committed projects’ in the Code: “contracts for the financing of the project, including any debt plans, have been executed (i.e. all the necessary formal legal requirements have been observed to make the contract valid and complete)”</p> <p>Select yes or no</p> <p><u>If this applies, provide the date that the project met the criteria. If this does not apply, put N/A.</u></p>	This information will inform the ‘project stage’ information for publication. Our intent at this stage is that this information would not be published individually, unless already public through other sources. Developers would be requested to indicate when submitting information whether it is already in the public domain.
<u>Construction commencement date set</u>	<u>Datetime (YYYY/MM/DD)</u>	<p>As per the definition for ‘committed projects’ in the Code: “construction has commenced or a firm commencement date for construction has been set”.</p> <p><u>If a firm commencement date for construction has been set, provide the date that the project met the criteria. If this does not apply, put N/A. Note that this is <i>not</i> the date that construction will commence, it is the date that the construction commencement date was set.</u></p> <p>Select from:</p> <ul style="list-style-type: none"> • A firm commencement date for construction has been set (or a range of dates, if applicable) 	<p><u>As per the definition for ‘committed projects’ in the Code: “construction has commenced or a firm commencement date for construction has been set”.</u></p> <p>This information will inform the ‘project stage’ information for publication. Our intent at this stage is that this information would not be published individually, unless already public through other sources. Developers would be requested to indicate when submitting information whether it is already in the public domain.</p>

		<ul style="list-style-type: none"> • Construction has commenced • Commercial use date for full operation has been set <p>If any of these milestones have been reached, also provide the relevant date(s)</p>	
<u>Estimated construction commencement date</u>	<u>Datetime (YYYY/MM/DD)</u>	<p><u>Provide an estimate of when construction will commence. If construction has already commenced, provide the date of commencement.</u></p> <p><u>If the expected commissioning month or day is not known (for example, for projects that are less advanced), use 31 December.</u></p>	<u>As above</u>
Final investment decision	<u>Datetime (YYYY/MM/DD)</u>	If this milestone has been reached, also provide the relevant date. <u>If this does not yet apply, put N/A.</u>	Final investment decision may be separate to the finance indicator where contracts include preconditions relating to final investment decision. Collecting information about final investment decision improves the Authority's monitoring about the stage of projects.