

Electricity Authority Te Mana Hiko

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Tēnā koutou

CROSS SUBMISSION DISTRIBUTION CONNECTIONS: PRICING PROPOSED CODE AMENDMENT AND CONNECTION PROCESS STAGE 1

Unison Networks Limited (Unison) and Centralines Limited (Centralines) submitted jointly on the Authority's distribution connection pricing proposed Code amendment, and Stage 1 distribution connection process proposals. This cross submission collates feedback on both proposals.

The purpose of this cross submission is to identify our alignment with submitters and some opposition. We have considered submitters concerns with the status quo or proposals. Notably, there are many concerns from access seekers about costly and inefficient proposals, despite their support for improved outcomes.

Our concerns remain

Primarily, Unison and Centralines continued to be concerned with:

- lacking industry expertise grounding the Authority's process proposals. Industry workshops to improve technical specifications and align stakeholders are required for fitfor-purpose regulation. We support the Electrical Engineers' Association (EEA):2 "We support a tailored, stakeholder-informed approach that balances consistency, efficiency, and accessibility to achieve New Zealand's broader energy goals"; and
- high risk pricing proposals that are not supported by economic principles or most access seekers.

Unison and Centralines support reissued consultations with evidence-based problem definitions and options supported by a robust cost benefit analysis. The network technical working groups were not used to their potential, helping to test the Authority's problem statement and develop appropriate solutions. The Authority should seek input on how to improve facilitation. More input on the problem definition will also enhance the process and input of the industry.3 It seems

https://www.ea.govt.nz/documents/6377/EEA_submission_on_Network_connections.pdf.

¹ We support Vector's comments in para [44], page 7 of their Network Connections Project – Stage 1 submission: Vector_submission___EA_connections_proposal.pdf.

² Electrical Engineers' Association, pg 8:

³ Vector say: We consider that this consultation could have benefitted from greater directed engagement with EDB staff, including workshops with EDBs prior to the consultation papers being released, para 44: industry workshops, see para 18: https://www.ea.govt.nz/documents/6246/MEUG - DCP Submissions 2024.pdf

there is a reluctance to leverage distribution sector knowledge when proposals impact it. We emphasis the value of industry bodies to improve this.

Process

Our high-level summary of feedback is that submitters broadly align on:

- support for streamlining connections and supporting decarbonisation;
- the need for flexibility and practical thresholds;
- the emphasis on industry-led solutions; and
- the required focus on efficiency and resource optimisation.

Further industry input is required to align the needs of access seekers with cost efficient and effective amendments. At a minimum, for DG and load proposals, we support longer timeframes for large and complex applications, and flexibility for distributors to:

- recategorise medium applications as complex, based on specifying network characteristics that add to the complexity; and
- agree mutually beneficial adjustments to timing with applicants.

We are strongly opposed to automatic approvals and agree with the harm identified by submitters.

Pricing

We acknowledge two disparate views within the EDB sector on capital contribution approaches. Distributors, fairly, emphasise the risk for existing customers in a net incremental methodology approach.⁴ Distributors' need to be able to provide access seekers with a balanced price factoring in both parties' circumstances.⁵

As explained in our submission, Unison and Centralines manage customer payback risk through adjusting the timeframe to recover costs.⁶ This depends on the nature and activity of the access seeker. Without that flexibility, the proposals come at a high risk of harm. The reliance limit risks incentivising manipulated contributions to fit within an arbitrary, unprincipled constraint, and making pricing less efficient for consumers overall.

Alongside distributors, there are access seekers opposing some fast-track pricing proposals, such as the reliance limit and pioneer schemes.⁷ The Authority implementing a swift and stringent approach will not get the best consumer outcomes.

The breadth of economists' opinions submitted is valuable to ensure a robust cost benefit analysis. Regulatory principles must drive the solutions including, least regrets regulation and evidenced economic efficiency. We continue to promote the Authority downscaling the proposals and evaluating them together to minimise perverse outcomes.

⁴ Vector, para 87 https://www.ea.govt.nz/documents/6268/Vector - DCP and NCP submission 2024.pdf

⁵ See Contact Energy and Simply Energy's submission on Q1, pg 2: https://www.ea.govt.nz/documents/6227/Contact_Energy_-_DCP_Submission_2024.pdf

⁶ Unison and Centralines response to Q20, pg 15:

https://www.ea.govt.nz/documents/6344/Unison_and_Centralines_DCP_-_NCP_-_Submisisons_2024.pdf

⁷ We note that MEUG's support of Pioneer Schemes is not matched by BP, https://www.ea.govt.nz/documents/6246/MEUG - DCP Submissions 2024.pdf; and https://www.ea.govt.nz/documents/6276/BP NZ - Combined submission 2024 I7niT4n.pdf

Summaries

We revise our proposed improvements to the fast-track stage in the table below, factoring in that access seekers:

- want improved consistency and certainty;⁸
- · do not universally support pioneer schemes; and
- acknowledge the harm of the reliance limit.

Our appendices include one pricing and one process table that identifies our support or opposition to some of the useful comments and proposals put forward by submitters.

We look forward to a constructive path forward in the interests of Aotearoa's electrification and energy affordability journey.

⁸ For example, Contact Energy's response to Q2, <u>Contact Energy - DCP Submission 2024.pdf</u> and BP, pg 1 <u>BP_NZ_-Combined_submission_2024_I7niT4n.pdf</u>.

Table of summarised recommendations (revised for cross submission)

Fast track	Recommendation	
Pricing		
Pricing Principles	 Apply to capital contributions including adding: mitigating first mover disadvantage; and applying a net incremental cost methodology to connection requests. 	
Connection cost enhancement requirement	To avoid 'under-scoped' design requirements that cost existing consumers more in the future, the distributor must be able to set the design standards (in accordance with good industry practice, including on a least cost life cycle basis).	
Capacity costing requirement	Add locational capacity (urban suburb and rural rates) to improve cost reflectivity.	
Pioneer scheme requirement	Disproportionate burden without widespread support from access seekers. Remove.	
Connection charge	Exclude standardised rates from individual reconciliations.	
reconciliation requirement	Set standard rates annually in pricing methodology.	
Reliance limit	Disproportionate and high risk constraint. Remove.9	
Dispute resolution	Appropriate to delay until full reform following updated pricing	
Everentian guidence	principles that apply to capital contributions.	
Exemption guidance Process	Important to promote certainty.	
	Require industry workshops to agree appropriate technical	
Non pricing measures for distributed generation (DG)	specifications and categories. ¹⁰ At a minimum, extend the large	
including automatic approval	category to large and complex with timing adjustments to be	
including automatic approval	agreed. ¹¹ EDBs need flexibility to recategorise medium	
	connections that are complex because of specified network	
	characteristics.	
Maximise Commission	Proportionate, lower cost and lower risk mechanism to obtain	
information disclosure regime	visibility and incentivise improvement.	
prior to full reform	visionity and incentivise improvement.	
Non pricing measures for load	In principle, a prescribed process for load akin to Part 6 may be	
connections	appropriate if proportionate and pragmatic, with industry led	
	categorisation for load connections that are different from DG. ¹²	
	Require industry workshops to agree appropriate technical	
	specifications and categories. At a minimum, extend the large	
	category to: large and complex with timing adjustments to be	
	agreed. ¹³ Provide flexibility for EDBs to recategorise medium	

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⁹ https://www.ea.govt.nz/documents/6342/Unison and Powercos joint submission - Incenta Report.pdf

¹⁰ Lightyear Solar step through adverse outcomes of the current proposals for access seekers and distributors, i.e. paras 4 and 5: https://www.ea.govt.nz/documents/6311/Lightyears - Netwo.pdf.

¹¹ The EEA say "Timeframe Flexibility and Monitoring: While defined timeframes are essential, incorporating a flexible mechanism that accounts for unique network conditions (e.g., constrained areas) or unforeseen complexities would improve practicality. Additionally, ongoing monitoring and reporting of compliance with these timeframes could help identify systemic issues and areas for improvement." Pg 16 and 17 step through inequitable implications.

¹² Powerco say: 10. The Authority is required to have regard to the Government Policy Statement (GPS).

¹² Powerco say: 10. The Authority is required to have regard to the Government Policy Statement (GPS). The GPS has a focus on optimising network capacity to avoid unnecessary costs flowing through to consumers. Our experience with Part 6 to date is that the regulations do ensure access, but this is at a cost to the service customers receive. https://www.ea.govt.nz/documents/6327/Powerco submission EA Network Connections Project Stage 1 2 0 Dec 2024.pdf

¹³ The EEA say "Allow Timeframe Adjustments for Complex Applications: Include provisions for extending

Fast track	Recommendation	
	connections that are complex because of specified network	
	characteristics.	
DG and Load: Automatic	Disproportionate, with high risk to existing consumers. ¹⁴ Remove.	
approval		
	We support recommendations that the Authority should:	
	(1) undertake further analysis to understand the systemic barriers	
	and challenges;	
	(2) adopt the Commission's regulatory approach – relying on one	
	set of IDs (not replicating a new Authority ID regime) and then	
	implement penalty/incentives. We support consideration of a	
	'Scorecard' to allow the sector to track identical KPIs and offer	
	distributors a path for continuous improvement.15	
Load: Obligation to connect	Amendment to primary legislation, implementing a process	
>69kVa	consistent with natural justice, would be the appropriate vehicle to	
	analyse and implement that proposal.16	
Distributor sets, measures, and	Transparent and certain policy for processing connection requests	
complies with its policy	set by the distributor, alongside target timelines and how extensions	
	are to be managed, with requirements to keep applicants informed.	
	Commerce Commission Information Disclosures (IDs) should be	
	used (minimally) for monitoring and incentives.	

Nā māua noa, nā

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timeframes where required for technically complex connections or where additional stakeholder engagement is necessary. Introduce a "stop the clock" mechanism to pause the timeframe when awaiting critical information or actions from the applicant or third parties." Pg 13, para 4.

¹⁴ Lightyear Solar say "Many DG applications are complicated, or not technically feasible, and placing a 'default approved' timeframe will mean that distributors will move to decline these applications prior to timeout, or request spurious information in order to extend timeframes – similar to how District Councils process Resource Consent applications." Pg 1, para 4: https://www.ea.govt.nz/documents/6311/Lightyears - Netwo.pdf

¹⁵Powerco, pg 17: We believe a less prescriptive approach, combined with comparison of practices among EDBs, like the Authority's pricing scorecards model, would better encourage continuous improvement while meeting customer needs.

https://www.ea.govt.nz/documents/6327/Powerco_submission_EA_Network_Connections_Project_Stage_1_20_Dec_2024.pdf.

¹⁶ Vector, para 9 - 17: https://www.ea.govt.nz/documents/6292/Vector_submission___EA_connections_proposal.pdf.

APPENDIX ONE: STAGE 1 PROCESS PROPOSALS

TABLE SUMMARISING SUBMISSION POINTS BY GROUPS AND OUR COMMENTS

Submitter or submitter group	Position / comment	Our position / comment	
Application processes for larger-capacity Distributed Generation (DG)			
EDBs	Calls for principles-based approach is more appropriate.	Support. This will reduce the unnecessary administrative burden and costs.	
EDBs	Proposed times are unrealistic and impractical	Support. The proposed framework is too rigid and fails to account for the variability in complexity of both generation and load connection applications. A "one-size-fits-all" approach does not allow for the unique circumstances of each application and may slow down the connection process.	
Industry bodies	Thresholds are arbitrary, suggesting that the process should be driven by the complexity of the connection, not just capacity. They propose categorising connections as low, medium, or high complexity.	Support. Categorisation by complexity is supported by some EDBs too.	
Generators	Changes to threshold proposed for both medium and large categories.	Support . Suggest industry led workshop to arrive on the most appropriate categorisation.	
Generators	Netpower suggest automatic approvals if the maximum timeframe elapses	Oppose. EDBs argue that automatic approvals compromise their ability to perform proper due diligence. If EDBs must approve applications without a thorough assessment due to time constraints, it could lead to unsafe or unstable connections, potentially impacting the reliability of the network	
Adding application processes f	or larger-capacity load		
EDBs	EDBs advocate for higher thresholds.	Support. EDBs contend that many small-scale applications will require processing and monitoring, many of which have minimal impact on network capacity. This would impose a substantial administrative burden on distributors, requiring them to manage numerous applications with little benefit to overall network operations or access seekers.	
EDBs	Tiered fees to deter speculative applications and reflect process complexity	Support. By implementing a tiered fee system, EDBs can discourage applications that are not serious or fully prepared. A non-refundable, tiered initial fee, particularly for large DG, would help to minimise wasted	

Submitter or submitter group	Position / comment	Our position / comment
		resources in processing applications that would not meet basic requirements.
Generators/Gentailers	thresholds	Oppose. These types of connections are fundamentally different. Uniform approach fails to recognise the differences in complexity, volume, and impact on the network.
Requiring distributors to publis load	h a network connections pipelir	ne for large-capacity DG and
EDBs	pipeline, recognising the potential	information could assist those
EDBs	Frequency of updates should balance practicality and usefulness (annual updates are suggested).	Support. EDBs argue that quarterly updates are too frequent and would impose an impractical administrative burden on distributors. The effort required to maintain a frequently updated pipeline may divert resources from providing more meaningful direct customer engagement.
EDBs	pipeline should be reconsidered, with many proposing >1MW for DG and >1MVA for load	Support but note exceptions may be needed. Processing and monitoring smaller applications would impose a significant administrative burden on distributors, requiring resources that could be better allocated to more impactful projects. Unison and Centralines emphasise the importance of EBDs retaining discretion to reallocate a medium application to a large and complex category where it can justify complexity requires more time and investigation. Smaller network connections, with lesser capacity, can still have a significant impact on remaining headroom. The relevance of nuanced network characteristics suit principles or guidance rather than hard and fast rules, or at a minimum, some retained flexibility for EDBs to justify variations.
EDBs	information published.	Support. Low granularity may not be useful to access seekers without more detailed engagement.
Generators / Gentailers	Generators advocate for detailed information, including location,	Support. Concerns that the pipeline requirement could be administratively intensive and

Submitter or submitter group	Position / comment	Our position / comment
		costly, potentially diverting resources from other important activities. May contain commercially sensitive information.
Industry bodies	Highlight the need for adequate protections for commercially sensitive information.	Support. This information is akin to a sales pipeline and may contain commercially sensitive data (also relevant to load). While customer names could be withheld, the location and size of the connection could make it possible to infer the connecting customer.
	de more information on network	
EDBs	Concerns about smart meter data access and capacity accuracy.	Support. EDBs face challenges under the current system in accessing half hourly consumption data. The existing terms of access under the Data Template in the Default Distributor Agreement (part of the Electricity Industry Participation Code 2010) heavily favour electricity retailers, often making it difficult for distributors to obtain data on reasonable terms.
EDBs	Propose annual updates over quarterly updates.	Support. Balance between information availability and cost and administrative burden.
EDBs	Calls for industry collaboration with the EEA for guidelines on defining and calculating capacity.	Support. Industry led workshops to better define how capacity should be calculated.
Industry bodies	SEANZ suggests targeting information for rural, industrial, and commercial areas, noting rooftop applicants may not require detailed data.	Support. Information should be targeted to the users who will most benefit from it. Rooftop solar installations, which are typically smaller and more standardised, do not need the same granular network capacity information as larger-scale project.
Generators / Gentailers	Generators ask for geospatial data.	Support. Geospatial representation of network capacity offers significant advantages over traditional data formats by providing a clear, accessible, and user-friendly way to understand complex information. Powerco has already developed and published hosting and demand capacity maps on their website, which they feel are beneficial to access seekers. However, this again requires access to smart meter data on reasonable terms (given

Submitter or submitter group	Position / comment	Our position / comment
		the monopoly power each smart meter owner has over the data).
	Dynamic operating envelopes	Oppose. The majority of EDBs do not have access on reasonable terms to smart meter data to enable DOEs. Smart meters need to have the capability to enable DOEs which old meters do not. We acknowledge EDBs are working toward this future and: • rely on the industries work toward a Distribution System Operation to enable
		distributed flexibility (including through DOE); and
		 the Authority progressing their workstream on data access on standard terms.
		Capability is not yet developed to provide DOEs. Currently, Unison uses static operating envelopes.

APPENDIX TWO: NETWORK CONNECTION CODE AMENDMENT PRICING PROPOSALS

TABLE COMMENTING ON SOME SUBMISSION POINTS PRIMARILY FROM ACCESS SEEKERS

Access	Position / comment	Unison position / comment
seeker/industry group		
Reliance limit		
MEUG	MEUG does not support the introduction of a reliance limit methodology, that seeks to put restrictions on distributors' ability to amend methodologies to increase capital contributions. ¹⁷	Support . MEUG raise many good questions about the impact and harm of the proposal.
Contact Energy and Simply Energy	Request the Authority consider where the access seeker's cost of capital is lower than distributors and requests to pay a higher capital contribution. ¹⁸	Support. The reliance limit removes flexibility for distributors to collaborate on the best overall outcome for each access seeker given their circumstances materially differ.
ChargeNet	ChargeNet supports the static limits approach. ¹⁹	Oppose . Multiple economists oppose the reliance limit because it will not improve the economic efficiency of pricing.
Pioneer Scheme		
ВР	"Pioneer schemes are not attractive to us as they create uncertainty in the economics of a project. Economics will be calculated on the worst-case scenario of receiving nothing back from EDBs as there is no guarantee when or if other users will take capacity and the full costs are carried by the first mover until another user comes along."20	Support.
MEUG	Schemes in Australia and the UK are referred to. ²¹	Oppose . The Incenta report steps through the context of Australian equivalents and considerations for implementation in New Zealand. ²² It says: "In relation to pioneer schemes, however, we think the Authority may have overstated the potential benefits of

¹⁷ Pg 2, para 9: https://www.ea.govt.nz/documents/6246/MEUG - DCP Submissions 2024.pdf
18 Pg 2, Q1: https://www.ea.govt.nz/documents/6227/Contact Energy - DCP Submission 2024.pdf
19 Pg 4, Q17: https://www.ea.govt.nz/documents/6225/Charge Net - DCP Submission 2024.pdf
20 Pg 3, https://www.ea.govt.nz/documents/6276/BP NZ - Combined submission 2024 I7niT4n.pdf
21 Pg 2, para 9: https://www.ea.govt.nz/documents/6246/MEUG - DCP Submissions 2024.pdf
22 Pgs 13 - 15: Unison_and_Powercos_joint_submission_- Incenta_Report.pdf

Access	Position / comment	Unison position / comment
seeker/industry group		these schemes. Whilst the Authority is correct that pioneer schemes are part of the standard arrangements in Australia, their purpose would better be described as creating a more equitable outcome, noting that for many EDBs the number of rebates provided to pioneer customers is very low."
Drive Electric	"The pioneer scheme proposed meets the principle but only if the connection pricing is efficient, otherwise the inefficiencies are exacerbated". ²³ Drive Electric recommends that, until connection enhancement costs are limited to only network extensions and consumerselected enhancements, the Pioneer Scheme should not be fully implemented. ²⁴	Support: The Authority's proposals will exacerbate inefficiencies created by the reliance limit or inequities cause by being unable to commercially mitigate investment risks. We do not consider there has been enough support for a pioneer scheme from access seekers to justify its introduction.
BusinessNZ Energy Council (BEC)	BEC expresses concern about access seekers' confidence in timely rebates and the administrative burden on distributors. They also question whether access seekers would be confident that other parties would connect or do so in a reasonable timeframe. They believe that the proposal would be burdensome on distributors. ²⁵	Support. Wide application of pioneer schemes is: • administratively burdensome, while providing limited value to access seekers and low certainty over timelines (see Incenta Report); and • creates potential information asymmetry for access seekers. For example, an access seeker may not be aware that a part of the network it is considering connecting to is subject to a pioneer scheme.
Connection cost enhance	cement requirement	
Meridian Energy	Meridian express concern that distributors retain significant discretion in determining what constitutes the "minimum relevant scheme design"	Oppose. To avoid 'under-scoped' design requirements that cost existing consumers more in the future, the distributor must be able to set the design standards (in accordance with good industry practice, including on a least cost life cycle basis).

Pg, 10: https://www.ea.govt.nz/documents/6231/Drive Electric- DCP Submissions 2024.pdf
 Pg, 21, paras 4-5.
 Pg 2, para 7: https://www.ea.govt.nz/documents/6279/BEC - DCP Submissions 2024 mj2hNGc.pdf.

Access	Position / comment	Unison position / comment
seeker/industry group	1 osition / comment	omson position / comment
Scotton madery group	and what work is needed,	
	which may mean the	
	proposed amendment is	
	ineffective (p. 1, para. 4). ⁴	
Capacity costing require		
Fonterra	Supports standard rates	Oppose. We support standard kVA rates but
· o.mon a	per MVA where the	these should apply to all connections in a
	incremental capacity	given network locality (perhaps with a de-
	change is less than 80% of	minimus capacity).
	existing spare capacity, or	,
	even a zero rate if capacity	
	is expected to be fully	
	absorbed without the need	
	for future capital cost. ²⁶	
Genesis Energy	Genesis note that the	Support. Unison currently utilises standard
Genesis Lifetgy	proposed approach is fairer	rates for smaller connection to simplify the
	as it spreads costs more	connection process and help access seekers
	equitably among a larger	with planning of costs. We note that with
	customer base, aligning	larger connections, the actual cost of a
	with the principle that users	connection can vary significantly from the
	or beneficiaries should pay,	average (within a capacity category) and
	rather than burdening new	significant outliers should be charged on per
	connectors exclusively. It	project basis to protect the interests of most
	prevents inequitable	consumers.
	situations where a new	
	connection bears the full	
	cost of extra capacity,	
	which could discourage	
	new electricity connections	
	and increase the cost of	
DD (ODC)	electrification. ²⁷	Omnogo Otendor Peril Corrello
BP (CPO)	BP notes that the most	Oppose. Standardised fees should always be
	preferable structure for EV	location specific to reflect the specificities of
	charging is demand	capacity constraints and different network
	charging and the Authority	characteristics.
	needs to look for a way to	
	create a standardised	
	demand fee for EV	
	chargers. ²⁸	
Contact Energy	Contact note that because	Support . We agree that connections projects
	some network capacity	often result in unplanned capex costs and it is
	upgrades are "lumpy," in	necessary that distributors can mitigate the
	practice a connection may	different risk profile of categories of access
	trigger an upgrade that	seekers. While not material enough to trigger
	costs the network more	reopeners, any capex overspend will result in

Pg.1, para. 7, https://www.ea.govt.nz/documents/6240/Fonterra - DCP Submissions 2024.pdf
 Pg.2, Q6, https://www.ea.govt.nz/documents/6241/Genesis Energy - DCP Submissions 2024.pdf
 Pg.3, para. 2, https://www.ea.govt.nz/documents/6276/BP_NZ - Combined submission 2024 | 7niT4n.pdf

Access	Position / comment	Unison position / comment
seeker/industry group		
	than published rates, meaning: • the network is left with unplanned capex costs, which may incur an IRIS penalty; and • unusual capital contributions to mitigate this risk. Contact recommend the Commission to join the project and consider tweaks to the incentive regime to align with the Authority's proposals. ²⁹	penalties under the Commission's incentive scheme.
Connection charge reco		
Aurora	The requirement to disclose reconciliation information could force distributors to reveal commercially sensitive information. ³⁰	Support. Cost reconciliation requirement should take commercial sensitivity into account.
Orion	Orion seek clarification on various aspects of the reconciliation methodology such as when it should be applied, how to treat different cost components, and how it interacts with other proposed changes. ³¹	Support. Cost reconciliation may not be appropriate to every connection at a project level, if standard rates apply. Clarification on how this requirement applies to posted standard rates is needed.

Pg.3, Q6: BP_NZ_-_Combined_submission_2024_I7niT4n.pdf
 Pg 15, para. 2 https://www.ea.govt.nz/documents/6252/Orion_-DCP_submission_2024.pdf
 Pg.10, Q10 https://www.ea.govt.nz/documents/6252/Orion_-DCP_submission_2024.pdf