

Dynamic Distributed Generation (DG) Export Connections FAQs

Dynamic Distributed Generation (DG) export connections are now available as of 11 May 2026.

Vector has introduced Dynamic Distributed Generation (DG) Export Connections, enabling eligible single-phase DG customers to export up to 10kW.

We are currently in the process of implementing a Dynamic Export Management System (Export Management System™). Once this system is live and connected to your inverter, your export limit will be dynamically adjusted over the internet based on what the network can safely accommodate at the time. This helps keep the network safe and reliable, while allowing as many customers as possible to export as much solar energy as the network can support.

What is a dynamic export connection and how does it work?

For eligible single-phase DG customers, a dynamic export connection allows a maximum export limit of up to 10kW, which customers should be able to export up to most of the time. Occasionally congestion on Vector's network may occur and your export limit will be dynamically reduced temporarily to help resolve network congestion issues and maintain safety and stability of the network.

Dynamic DG export connections allow higher export limits because Vector can actively respond to network conditions and reduce exports only when necessary to maintain network safety and reliability. By comparison, fixed export limits require a more conservative and lower limit as there is no ability for Vector to respond to network conditions. This requires us to assess export capacity in accordance with the worst case scenario which may occur very rarely.

Dynamic export limits help more customers connect and export more solar generation, while ensuring the network remains safe, stable and reliable.

Vector will allocate and manage dynamic export limits directly to compatible inverters over Wi-Fi once the Vector Dynamic Export Management System has been implemented.

Are dynamic export connections beneficial for customers and New Zealand?

Dynamic export connections offer advantages all around.

- 1. More customers can export more solar energy, more often** – Dynamic export connections allow the network to support as much solar export as it can safely accommodate at the time. In contrast, fixed export limits need to be set conservatively, to keep the network safe and stable in extreme-case conditions.
- 2. Better use of available network capacity** – Because these conditions occur rarely, fixed limits can leave available network capacity unused much of the time. Dynamic exports help make better use of that capacity.
- 3. Lower long-term network costs** – By managing exports dynamically, networks can reduce or defer the need for costly network upgrades. This helps keep overall network costs lower for all customers.
- 4. Fairer access to network capacity over time** – Solar inverters typically last 15 years. With fixed export limits, early adopters can reserve available network export capacity for long periods, which can prevent other customers to connect and export solar in the future. Dynamic exports help share available network capacity more fairly over time.

- 5. Supporting fair and equitable access over time** – Fixed export limits can result in available network capacity being reserved by early adopters for many years. This may reduce opportunities for other households to connect and benefit from solar in the future. Dynamic exports help make better use of available capacity so access can be shared more fairly across more customers over time.

How is network investment balanced with growing demand for solar exports?

Dynamic export connections help maximise the use of existing network capacity, while still allowing for future investment as solar adoption increases.

We remain committed to investing in the network to fulfil our customers' needs. Should solar uptake accelerate in Auckland, then we will incrementally expand our network's capacity to ensure dynamic export connections are able to export as much solar generation as possible, most of the time. Importantly though this investment is significantly lower than what would be required if everybody had a fixed solar export connection.

If I have a dynamic export connection, when will my export limit be reduced?

In most cases, very rarely. Based on current network conditions, most customers will rarely notice any limits on exporting electricity. For the vast majority of the time, you will be able to export 10 kW of generation without any interruption.

International experience has shown us that customers can export up to their maximum export limit most of the time. Export limits are only temporarily reduced to maintain network safety, stability and managing network equipment capacity (thermal) limits.

This typically only happens when the following coincide:

- On very sunny days when a lot of solar generation is being exported into the network in the same area at the same time.
- When electricity demand in your area is low.

How does export management work during periods of network congestion?

At the coincident time of very high local solar generation and low load, some parts of the network can become congested. If this happens, Vector may temporarily reduce export levels from some customer solar systems to help keep the network safe, stable and reliable for everyone.

Any export adjustments would only occur where there is a genuine local network constraint and would be limited to what is necessary, for only as long as needed.

Any export management will be carried out in accordance with the Electricity Industry Participation Code and Vector's congestion management policy.

What is Vector's Dynamic Export Management System & when is its launch date?

Vector's active export management system will allow Vector to remotely communicate with customers inverters of their dynamic export limit. This system will rely on the internet to do that.

We expect our system to become available later in 2026. Once it is live, we'll contact customers and provide instructions on how to connect compatible inverters and enable dynamic export functionality.

Can dynamic export connections help customers financially?

Yes, potentially.

Solar customers with dynamic export connections can export more energy more often than customers with fixed limits (due to their higher maximum export limit). This potentially increases the solar buy-back rebates that you could receive from your electricity retailer.

Additionally, all customers benefit in the long-run as less investment is needed to reinforce the network for solar integration.

Will dynamic exports affect the amount I can generate?

Dynamic exports limits only affect how much electricity is being exported from your DG system into Vector's network at your point of connection at any given time. This export limit does not affect the amount of electricity you generate and use within your home.

Why has the launch date for dynamic export connections up to 10kW changed?

We have re-named this offering as "dynamic export connections" previously called "flexible export connections" and have brought forward this rollout from 1 July to 11 May 2026. This change aligns with the Electricity Authority's latest Electricity code amendments.

How do I know if my inverter supports dynamic exports?

All inverters compliant with New Zealand standard, AS/NZS 4777.2 and capable of Common Smart Inverter Profile (CSIP) will support dynamic exports. Your installer will be able to confirm whether your inverter is compatible and can set it up correctly.

Your system will need to be in range of an internet connection so it can securely communicate with our network when needed.

What happens if my internet goes down?

Once Vector's export management system is live and your inverter is connected to it, if a temporary communications issue prevents your inverter from communicating with Vector's system (for example, a WiFi outage), then your inverter will temporarily reduce its export limit to a fixed default of 2.5kW until communications are restored.

Your normal, dynamic maximum export limit will apply again once your inverter's connection is restored. Generation and use of electricity by your household will be unaffected by this temporary reduction and will continue as normal.

How do I get a dynamic export connection?

As of 11 May 2026, customers can apply for dynamic DG export connections using the updated Distributed Generation (DG) application form now available on our website.

I'm an installer, what do I need to do?

Vector's DG application form has been updated to reflect the information we need to allocate dynamic export connections to customers.

You should continue installing inverters that comply with Vector's applicable technical standards that can be found on our website [here](#). This includes compliance with AS/NZS 4777.2 2020 and (for customers to be eligible for a dynamic export limit) CSIP capability.

Vector has also adopted the Clean Energy Council's approved inverter list found [here](#). This list now supersedes Vector's approved inverter list. Inverters included on this list are pre-approved for use on Vector's network. Other inverters will need to be supported by the technical documentation indicated in our standards.

To support dynamic export capability in the future, eligible inverters will also need to be connected to the internet, enabling them to communicate with Vector's Dynamic Export Management System. We recommend working with customers to ensure inverters are in a place where they can maintain a stable internet connection (if they would like to be eligible for a dynamic export limit).

After installation you'll still need to submit a Certificate of Compliance (CoC) and Record of Inspection (RoI) for a DG system that you install. Additionally, Vector now asks for a photo of each inverter's nameplate, clearly showing the model details and its serial number. Your customers may ask you to help them with that too.

If you have any questions, please get in touch with us.

Will I need to upgrade my DG system to access dynamic exports?

It depends on your DG system.

If your inverter is compliant with AS/NZS 4777.2, CSIP capable and can connect to the internet, you will not need to upgrade your system. You may still have to update the software on your inverter though.

If your inverter is not compliant with current Vector standards, then you may need to upgrade or retrofit your inverter for it to be compatible with Vector's requirements, including being CSIP capable.

We're happy to help determine whether your inverter needs to be upgraded.

If you currently have a fixed export limit and would like to move to a dynamic export limit, you will need to submit an application for the new export arrangement, regardless of whether your inverter requires an upgrade.

I already have installed Distributed Generation (DG), can I increase my system size and / or export limit

If you currently have DG installed, and meet the requirements for dynamic export connections and want to either:

(i) *increase the size of your system to make the most of the dynamic 10kW export limit,*

And/or

(ii) *increase the size of your export limit for your existing system,*

As of 11 May 2026, you can apply for an increase in system size and / or export limit using Vector's updated Distributed Generation (DG) application form available on our website, to submit your application.

Please note, you will need to make sure your DG system meets our technical requirements for a dynamic DG export connection (i.e. your inverter is compliant with AS/NZS 4777.2, CSIP capable and can be connected to the internet) If not, your system will need to be upgraded or retrofitted to meet these requirements.

What if I have already submitted a DG application and am waiting to hear back?

If your application is still in progress, we'll contact you with the following options for how you'd like to proceed:

1. Continue with your current application, and we'll process it as planned under the previous process with a 5kW (fixed) export limit.
2. Move to the dynamic export option.

If you choose the dynamic option, we'll transfer your existing application details into an updated form and send it to you to complete the remaining information and provide sign-off.

Please note, that your system needs to be approved before it can be operated or export to the network.

Is there anything I need to do once Vector's export management system is live?

Yes, you will need to connect your inverter to our system once it is live.

We are working with inverter manufacturers and DG installers to make the connection process as smooth as possible. Once the preferred approach has been confirmed, we will contact you with further information and instructions.

Is automatic approval available?

Approval is not automatic. However, installing a DG system that complies with Vector's technical requirements for dynamic export limits will expedite the processing time for your application by reducing the number of technical checks that Vector needs to carry out.

By comparison, an application with a fixed export limit requires more business checks to ensure the network can support it.

Can I export power during a power outage?

No, for safety reasons, solar systems are designed to stop exporting to the network during outages. If you have a battery or backup system, it may still power your home depending on your set up.

Can my export limit change in the future?

Potentially.

If network conditions change permanently in your area over time, then Vector may need to adjust export limits in accordance with the Electricity Industry Participation Code and our Congestion Management Policy. If this occurs, affected customers would be notified in advance.