



Export credits policy

Applicable from 1 April 2025

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Export credits policy

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1. Introduction

This document defines the basis for credits that are available from Orion for approved distributed generation which is embedded within our network area, and exports electricity into our network at times when it is beneficial to our delivery service (usually during peak loading periods).

The following sections describe the criteria, the process for determining credit quantities, and the payment process. The actual credit prices are provided in our schedule of *Export credits* available from the pricing section of our website (see www.oriongroup.co.nz/DeliveryPricing). We apply export credits to the party that contracts with us for delivery services (usually the electricity retailer).

Distributed generation that reliably generates during peak demand times can provide an economical alternative to electricity delivery and we provide export credits in recognition of this benefit to the network. The credits do not represent the purchase of electricity, and exporting customers are able to separately negotiate to sell exported energy, usually to their electricity retailer.

While not covered in this document, often the most significant benefit available to customers with generators is the ability to reduce their electricity purchase charges by meeting a proportion of their own load. This benefit, together with our export credits, can provide significant rewards for customers with generators.

Caution: while generators are often installed to improve security of supply, running a generator can increase the chance of outages, and this should be considered before customers elect to operate generators in response to our pricing signals. Specifically, the additional electrical protection equipment that is required with the installation of a generator can respond to events (such as voltage fluctuations) on the electrical network by shutting down the generator and disconnecting from the network, effectively causing outages that might otherwise not occur.

We previously provided a separate additional “generation credit” for customers that operated generators at other times in response to our request. Changes in our price regulation mean that we are no longer able to provide this credit at a viable level, and the arrangement was withdrawn effective 1 April 2019.

A plain English introduction to our provisions for distributed generation is available in our Distributed generation information pack, also available on our website.

2. Export credits

Orion provides credits for exports of electricity into our network at various times based on the benefit to the network through reduced peak loading levels. This standardised arrangement applies to connections where the combined output rating of the generation at the connection does not exceed 750 kW (based on the prime or continuous nameplate rating(s), or 80% of the equivalent kVA rating where a kW rating is not given). We consider the terms and level of credits on an individual basis for connections with generation capacity in excess of 750 kW - refer to the section for *large generation* below. Export credits were first introduced and have been provided since May 1995. Over time, we have developed and enhanced these arrangements to form the basis provided in this document.

In December 2016 the Electricity Authority made changes to the rules to restrict the part of any export credit payment that relates to the avoidance of transmission charges. The changes mean that we can only reflect the benefit of reduced transmission costs in respect of generation that was both in place prior to 6 December 2016 and is also approved by the Electricity Authority. With this change we have reduced the credits to remove the transmission component. For any generation that is approved by the Electricity Authority (at the date of this publication there is none) we will specifically calculate the transmission savings and apply this as an additional credit. For generation established after 2016 we understand that the Electricity Authority expects that generating customers can instead approach Transpower directly (for example, through its demand response program) where the benefit of generation can be considered and rewarded appropriately.

2.1 Requirements

To be eligible for export credits, distributed generation must meet a number of prior requirements. In summary, each customer must:

- Apply to Orion to qualify for export credits

We must approve the generation as being eligible for export credits (refer to the application form at the back of this document). We assess each application based on generation capacity, local network capacity and expected growth in demand, reliability/availability of response and supply security in the area of the generator.

Where we assess that the addition of the generator will beneficially supplement network capacity, operating characteristics (e.g. power factor) and/or enhance supply security (even in the longer term, considering the possible connection of further distributed generation), we will generally approve eligibility for export credits.

In terms of reliability, our network can accommodate some diversity between generator outputs but any single large generator that may fail following a single fault event, or any group of highly correlated generation (such as wind turbines), will not normally provide sufficient security of supply to be of benefit, and will not be approved for standard export credits. Generators that are temporarily or seasonally installed do not provide an appropriate alternative to our long-term delivery assets and will not generally be approved.

We may offer alternative export credit terms for generation that does not meet our standard criteria.

- Commit to the specified level of generation

The customer must agree to use reasonable endeavours to generate and export at the levels and during the periods indicated in the application for approval. We may withhold payment if we establish that this commitment has not been met. With reasonable notice, customers may withdraw from this arrangement at any time and may subsequently re-apply for export credits. Customers who withdraw during a peak period or control period season and subsequently re-apply may not be accepted on our standard terms.

- Have appropriate metering

Our export credits are based on measured export volumes during specific periods. Customers wishing to take advantage of our credits must ensure that appropriate metering is in place to record the creditable quantities required for the calculation of credits.

In addition to the above eligibility requirements for export credits, connections with distributed generation must comply (and continue to comply) with the requirements for connection given in our *Distributed generation information pack* available on our website.

2.2 Categories

For the purpose of applying credits, connections with distributed generation are categorised by size range based on the combined available output capacity (in kW) of the installed generators at the connection. In most cases this will be the sum of the generator nameplate ratings (based on the prime or continuous rating, or 80% of the equivalent kVA rating where a kW rating is not given), but this may be de-rated where the power source is limited.

30 to 750 kW generators, the credit is based on the average export that occurs during our **control period**. A full definition of our chargeable control periods is provided in our Pricing Policy document. In summary, control periods occur within peak periods when loading (and therefore load shedding) is at its highest. We aim to limit the total duration of the control period to between 80 and 100 hours per winter season. Any electricity imported (used) during the control period contributes toward delivery charges (that is, export and import quantities do not offset each other).

It is important to note that the credit for 30 to 750 kW generators is based on the average export power, rather than the total exported energy (i.e. average export power is total energy exported divided by the duration of the chargeable period). This means that seasons with relatively longer total control period duration will require longer periods of generation for the same level of credit.

Other than as noted above, we will not provide credits for export that occurs at other times. For example, we will not provide additional credit where a failure in control equipment results in inadvertent operation of a generator.

2.3 Metering requirements

In addition to the minimum metering requirements specified in our *Distributed generation information pack*, the customer will need to ensure that the following additional metering is in place in order to take advantage of our export credits:

<p>above 30 kW reactive-power component (required only for optional reactive power credit)</p>	<p>Half-hour interval metering to measure kVArh export volumes at the network connection point during our chargeable <i>control period half-hours</i>.</p>
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On application, we will consider the suitability of alternative metering arrangements.

Please note that these metering requirements are additional to our general metering requirements for delivery, and electricity retailers will also specify their own requirements. We recommend that customers with generators discuss their metering with their electricity retailer who can provide metering options that meet all requirements.

2.4 Contractual arrangements

This document is referred to in our published *Pricing Policy* document, which details the pricing and charges that apply under our *Delivery services agreements* with electricity retailers, and under our *Direct Delivery Services Terms and Conditions* (for those major customers that contract with us directly).

We apply export credits on the invoices to the party that contracts with us for delivery services. In most cases this is the electricity retailer, and we expect retailers to pass on these credits (in some form) to the exporting customer.

2.5 Payment of credits

Export assessments and credits are applied on an annual cycle as follows:

Category	Assessment period	Credits applied
above 30 kW	1 May to 31 August	In October invoice

We apply credits at a later date if there is any delay in receiving the metering information on which the credits are based and apply subsequent adjustments to credits if there are material corrections to metered quantities.

3. Large generation

The standard export credits do not normally apply for connections with combined generation capacity in excess of 750 kW (based on the nameplate prime or continuous rating, or 80% of the equivalent kVA rating where a kW rating is not given). The benefits to Orion of distributed generation in relation to electricity delivery are not as clear when a large contribution is applied at a single point in the network, even if this is only offsetting a customer's existing load. The economic feasibility of the arrangement depends on the capacity available in the network in the vicinity of the connection.

Our restrictions on the standard basis for export credits allow us to maximise the benefit from this group of customers, and therefore enables us to provide relatively high credit price levels. We are aware that the benefit to the network from the connections that receive standard export credits must be maintained in order to maintain the level of credits.

We individually assess the benefits provided by larger generation and provide customised credits that reflect these benefits. In some cases, the standard credit prices may be offered, but in other cases a reduced credit price or additional terms and conditions are offered. We may also limit the term of the credits to an appropriate number of years to reflect the benefit derived from distributed generation. When assessing the benefits provided by larger generation, we consider:

- Planned capital expenditure which might be deferred
- The level of supply security provided by the generation
- The interaction with other generation in the area
- The availability of generation during capacity shortages (other than at peak times, for example, during planned maintenance)

All other arrangements and requirements detailed in this document, as appropriate, will generally still apply. These include:

- The requirement for application and approval
- A commitment to the level and availability of generation
- Metering and control requirements
- Contractual arrangements, creditable periods and payment of credits

Customers with more than the standard export credit capacity limit wishing to apply for credits should complete the application at the back of this document.



Application for export credits

Use this form to apply for Orion's export credits. Please note that you must separately apply to connect a distributed generator.

Return to: Orion New Zealand Ltd
PO Box 13 896
Christchurch
info@oriongroup.co.nz

Customer details

Name _____

Phone _____

Contact person _____

Mobile _____

Postal address _____

Email _____

Electrical consultant _____
(associated with generation, if any)

Generation details

ICP of installation _____
(where generator is connected)

Energy source:

Generation output:

- Diesel
- Solar
- Wind
- Battery
- Hydro
- Gas
- Steam

Unit	Nameplate	Available (if different)
1	_____ kW	_____ kW
2	_____ kW	_____ kW
3	_____ kW	_____ kW
4	_____ kW	_____ kW

Normal generation set-point (combined) _____ kW
_____ kVAr

The available output value is relevant where the output is limited by the power source.

Expected maximum export (if exporting) _____ kW
_____ kVAr

Battery storage (if applicable) _____ kWh

Availability

Anytime, 24 hours, 365/366 days

Maximum continuous running time _____ hours

- or -

Only between the hours of _____ and _____

Maximum annual running time _____ hours

and only between the dates _____ and _____

Other restrictions: _____

When assessing this application, Orion will use this availability information to assess the benefit of the distributed generation to the network.

Electricity retailer _____

You must make appropriate arrangements for your electricity retailer to purchase and meter any exported electricity. Orion applies export credits to your retailer (or to you, if you are a directly contracted major customer).

Export credit category (please tick one)

- 0 to 30 kW anytime credits (without any PV)
- 0 to 30 kW anytime credits (with PV)
- 0 to 30 kW peak period credits (with or without PV)
(half-hour interval export kWh metering must be installed)
- 30 to 750 kW control period credits (kW credits only)
(half-hour interval export kWh metering must be installed)
- 30 to 750 kW control period credits (kW and kVAr credits)
(half-hour interval export kWh & kVArh metering must be installed)
- above 750 kW control period credits
(half-hour interval export kWh & kVArh metering must be installed)

You acknowledge and agree that:

- you are authorised to make this application, the information provided is correct and you apply for export credits on the basis described in this application
- if this application is accepted, you will use reasonable endeavours to generate and export at the levels and during the periods indicated in this application. You may provide reasonable notice to Orion and withdraw from this arrangement
- you have read and will comply with the requirements of Orion's Application for export and generation credits (applicable from 1 April 2024)
- export credit prices are provided in Orion's schedule of Export and generation credits available on Orion's website and updated from time to time (in accordance with Orion's delivery services agreements)
- Orion is not liable for any direct or indirect losses resulting from your decision to operate (or not operate) your generator(s) under this arrangement
- Orion will assess this application and, if approved, will confirm the date and basis for credits that will apply. Orion may review the availability and terms applicable to credits from time to time to reflect the reliability of generation or the benefit to the network as it changes over time. Orion will provide reasonable advance notice of any change to the availability or basis for credits.

Authorised _____
Signatory

On behalf of _____

Name _____

Date _____