

## Export and generation credits

(applicable from 1 April 2009 to 31 March 2010)



(excluding GST)

This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to the document *Application of export and generation credits*, available on our website.

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### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator output	Period applied	Distribution	Transmission	Delivery	
0 - 30kW Anytime credits <sup>2</sup>	Anytime (24 hours, 7 days)	0.705	0.421	1.126	¢/kWh
- or -					
0 - 30kW Peak period credits <sup>2</sup>	General connection chargeable peak period	41.20	24.60	65.80	¢/kWh
30 - 750kW Control period credits					
- real power	Major customer control period	61.75	36.90	98.65	\$/avg kW/yr
- reactive power		20.30	0.00	20.30	\$/avg kVAr/yr
above 750 kW	<i>Individually assessed prices provided on application</i>				

#### Notes for export credit pricing

1. Full details covering generation and metering requirements and application of prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. Small generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation of appropriate metering to record peak period export.
3. Approximately 20 connections are approved for export credits.

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### Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to consumers with generation in excess of 30kW.

Generator output	Period applied	Distribution	Transmission	Delivery	
30 - 750kW Generation period	Orion's ripple signalled generation period	32.0	33.0	65.00	¢/kWh
Above 750 kW	<i>Individually assessed prices provided on application</i>				

#### Notes for generation credit pricing

1. Full details covering generation requirements and the application of credit prices are included in the document *Application of export and generation credits*, available on our website.
2. These prices apply for pre-approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.
3. Approximately 26 connections are approved for generation credits.

## Export and generation credits

(applicable from 1 April 2008 to 31 March 2009)



(excluding GST)

This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to the document *Application of export and generation credits*, available on our website.

### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator output	Period applied	Distribution	Transmission	Delivery	
0 - 30kW Anytime credits <sup>2</sup>	Anytime (24 hours, 7 days)	0.664	0.530	1.194	¢/kWh
- or -					
0 - 30kW Peak period credits	General connection chargeable peak period, by zone	38.80	30.90	69.70	¢/kWh
30 - 750kW Control period credits	Major customer control period, by zone				
- real power		58.14	46.40	104.54	\$/avg kW/yr
- reactive power		19.11	0.00	19.11	\$/avg kVAr/yr
above 750 kW	<i>Individually assessed prices provided on application</i>				

#### Notes for export credit pricing

1. Full details covering generation and metering requirements and application of prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. Small generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation of appropriate metering to record peak period export.
3. As at January 2008, approximately 16 connections are approved for export credits.

### Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to all consumers with generation in excess of 30kVA.

Generator output	Period applied	Distribution	Transmission	Delivery	
30 - 750kW Generation period	Orion's ripple signalled generation period	32.0	33.0	65.00	¢/kWh
Above 750 kW	<i>Individually assessed prices provided on application</i>				

#### Notes for generation credit pricing

1. Full details covering generation requirements and the application of credit prices are included in the document *Application of export and generation credits*, available on our website.
2. These prices apply for pre-approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods. As at January 2008, approximately 33 connections are approved for generation credits.

## Export and generation credits

(applicable from 1 April 2007 to 31 March 2008)



(excluding GST)

This schedule lists the credit prices that Orion uses to credit electricity retailers or directly contracted customers for exports or contributions from their embedded generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to the document *Application of export and generation credits*, available on Orion's website.

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### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator output	Period applied	Distribution	Transmission	Delivery	
<b>Small (0 - 5 kVA)<sup>2</sup></b>	<i>Standard 'general connection' peak and capacity delivery prices apply at all times</i>				
<b>Medium (5 - 30 kVA)<sup>3</sup></b>	General connection chargeable peak period, by zone	45.0	24.4	69.40	¢/kWh
<b>Large (30 - 1000 kVA)<sup>3</sup></b>	Major customer control period, by zone				
- Real power		63.10	32.70	95.80	\$/avg kW/yr
- Reactive power		20.60	10.70	31.30	\$/avg kVAr/yr

#### Notes for export credit pricing

1. Full details covering generation and metering requirements and application of prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. For small generators, export volumes are not included with a retailer's chargeable GXP volumes and are therefore not charged. This is effectively a credit to the retailer at the delivery prices applying to general connections.
3. These credit prices apply to export pre-approved embedded generators of up to 1 megawatt output rating. Orion will individually consider credit prices for larger generators. As at February 2007, approximately 20 connections are approved for export credits.

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### Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to all consumers with generation in excess of 30kVA.

Generator output	Period applied	Distribution	Transmission	Delivery	
<b>Large (30 - 1000 kVA)</b>	Orion's ripple signalled generation period				
- Real energy		25.0	25.0	50.00	¢/kWh

#### Notes for generation credit pricing

1. Full details covering generation requirements and the application of credit prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. These prices apply for pre-approved generation during Orion's ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods. As at February 2007, approximately 42 connections are approved for generation credits.



## Export and generation credits

Applicable from 1 April 2006 to 31 March 2007

(excluding GST)

This schedule lists the credit prices that Orion uses to credit electricity retailers or directly contracted customers for exports or contributions from their embedded generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to the document *Application of export and generation credits*, available on Orion's website.

### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

Generator output	Period applied	Distribution	Transmission	Delivery	
<b>Small (0 - 5 kVA)<sup>2</sup></b>	<i>Standard 'general connection' peak and capacity delivery prices apply at all times</i>				
<b>Medium (5 - 30 kVA)<sup>3</sup></b>	General connection chargeable peak period, by zone	45.0	24.4	69.40	¢/kWh
<b>Large (30 - 1000 kVA)<sup>3</sup></b>					
- Real power	Major customer control period, by zone	63.10	32.70	95.80	\$/avg kW/yr
- Reactive power		20.60	10.70	31.30	\$/avg kVAr/yr

#### Notes for export credit pricing

1. Full details covering generation and metering requirements and application of prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. For small generators, export volumes are not included with a retailer's chargeable GXP volumes and are therefore not charged. This is effectively a credit to the retailer at the delivery prices applying to general connections.
3. These credit prices apply to export from pre-approved embedded generators of up to 1 megawatt output rating. Orion will individually consider credit prices for larger generators.

### Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to all consumers with generation in excess of 30kVA.

Generator output	Period applied	Distribution	Transmission	Delivery	
<b>Large (30 - 1000 kVA)</b>					
- Real energy	Orion's ripple signalled generation period	23.0	22.0	45.00	¢/kWh

#### Notes for generation credit pricing

1. Full details covering generation requirements and the application of credit prices are included in the document *Application of export and generation credits*, available on Orion's website.
2. These prices apply for pre-approved generation during Orion's ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.



## Export prices for distributed generation

Applicable from 1 April 2004 to 31 March 2006

The prices below represent Orion's credit to Electricity Retailers reflecting the benefit to Orion from embedded generation. The credit does not represent the purchase of this electricity. The retailer receiving the credit is the retailer who has contracted to purchase the output from the generator. For pricing purposes, generators are grouped according to their generator output ratings in kilowatts (kW):

Distributed Generator Output Rating	Line	Transmission	Delivery	
<b>Small (0 - 5 kW)<sup>2</sup></b>	<i>Standard 'General Connection' delivery prices apply at all times</i>			
<b>During Chargeable Peak Periods Only</b>				
<b>Medium (5 - 30 kW)<sup>3</sup></b>	45.00	24.40	69.40	c/kWh
<b>Large (&gt; 30 kW) - Real Power<sup>3</sup></b>	67.50	36.60	104.10	\$/avg kW/yr
<b>Large (&gt; 30 kW) - Reactive Power<sup>3</sup></b>	22.00	11.90	33.90	\$/avg kVAr/yr

### Notes

- GST is credited in addition to these prices.
- For Small generators, export volumes are not included with a retailer's chargeable GXP volumes and are therefore not charged. This is effectively a credit to the retailer at the delivery prices applying to general connections.
- For Medium and Large generators the prices relate to Orion's Chargeable Peak Period only, defined as complete half hour periods (beginning or ending on the hour) occurring while Orion is undertaking load management to control peak loading. If there are fewer than ten such half hours in a season, the difference will be made up using the half hours of highest loadings during the season.
- The same prices apply in all of Orion's zones.
- The retailer is responsible for ensuring that appropriate metering is in place to record the exported quantities, and for providing the quantities to Orion for Orion to apply the credits.
- Minimum metering required is:
  - For Small generators - Import & export kWh meters with reverse stops or a combined import/export kWh meter that records import and export volumes separately (that is, 'net metering' is not permitted).
  - For Medium generators - As for small generators for low exported kWh volumes and/or where the retailer agrees. Otherwise, import/export half-hour recording kWh meter.
  - For Large generators with a capacity between 30 kW and 350 kW connected to Orion's low voltage network - Import/export half-hour recording kWh meter.
  - For Large generators where exported reactive power is to be considered, or where the capacity exceeds 350 kW, or where the generator is connected to Orion's high voltage network - 4-quadrant meter that records, for every half-hour:
    - Net real energy (kWh) imported or exported; and
    - Net reactive energy (kVArh) imported or exported.

Note that any net import of reactive power during the Chargeable Peak Period is charged at the prices above, rather than credited.
- These prices do not apply to exporting generators in place prior to 31 March 2004 and electing to stay on the pricing basis described in section 10 of the document "Electricity Delivery Pricing for Major Customer Connections".
- These prices apply to export from distributed generators of up to 1 megawatt output rating.