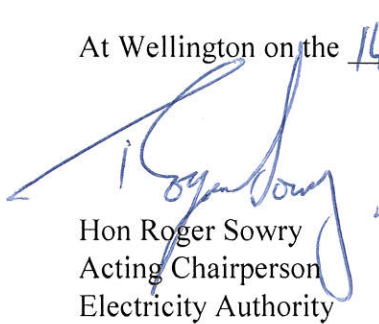


**Electricity Industry Participation (HVDC Pole 3 Minor  
Amendments) Code Amendment 2012**


Pursuant to section 38 of the Electricity Industry Act 2010, I make the following amendments to the Electricity Industry Participation Code 2010.

At Wellington on the 14<sup>th</sup> day of May 2012



Hon Roger Sowry  
Acting Chairperson  
Electricity Authority

Certified in order for signature:



Ross Hill  
General Manager  
Legal and Compliance  
Electricity Authority



Susie Kilty  
Partner  
Buddle Findlay

14 May 2012

14 May 2012

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## Amendment

### 1 Title

This is the Electricity Industry Participation (HVDC Pole 3 Minor Amendments) Code Amendment 2012.

### 2 Commencement

This Amendment comes into force on 1 July 2012.

### 3 Code amended

This Amendment amends the Electricity Industry Participation Code 2010.

### 4 Clause 1.1 amended (Interpretation)

- (1) In clause 1.1(1), replace the definition of **at risk HVDC transfer** with:

**“at risk HVDC transfer** means the quantity of **MWh** for each **trading period** calculated in accordance with Tables 1 and 2, where—

**“ $INJ_{HVDCHAYt}$**  is the **electricity** injected from the **HVDC link** into the North Island **grid assets** at the North Island **HVDC injection point** in **trading period t**; and

**“ $INJ_{HVDCBENt}$**  is the **electricity** injected from the **HVDC link** into the South Island **grid assets** at the South Island **HVDC injection point** in **trading period t**; and

**“ $INJ_{Pole2HAYt}$**  is the **electricity** injected from Pole 2 of the **HVDC link** into the North Island **grid assets** at the North Island **HVDC injection point** in **trading period t**

**“Table 1:** HVDC northward transfer – if **electricity** is injected at the North Island **HVDC injection point** in the relevant **trading period**

<b>HVDC configuration at the beginning of trading period t</b>	<b>At risk HVDC transfer north in trading period t (expressed in MWh)</b>
Pole 1 one half pole only	$INJ_{HVDCHAYt}$
Pole 2 only	$INJ_{HVDCHAYt}$
Pole 3 only	$INJ_{HVDCHAYt}$
Pole 2 and Pole 1 one half pole	$INJ_{Pole2HAYt}$
Pole 3 and Pole 2 bipole <b>round power</b>	$INJ_{HVDCHAYt}$
Pole 3 and Pole 2 bipole not <b>round power</b>	$\max(0, INJ_{HVDCHAYt} - 263)$

**“Table 2:** HVDC southward transfer – if **electricity** is injected at the South Island **HVDC injection point** in the relevant **trading period**.

<b>HVDC configuration at the beginning of trading period t</b>	<b>At risk HVDC transfer south in trading period t (expressed in MWh)</b>
Pole 2 only	$INJ_{HVD CBENt}$
Pole 3 only	$INJ_{HVD CBENt}$
Pole 3 and Pole 2 bipole <b>round power</b>	$INJ_{HVD CBENt}$
Pole 3 and Pole 2 bipole not <b>round power</b>	$\max(0, INJ_{HVD CBENt} - 263)$

- (2) In clause 1.1(1), replace the definition of **configuration** with:

**“configuration**, in relation to the **HVDC link**, means the following modes of operation of the **HVDC link**:

- “(a)** Pole 1 one half pole only:
- “(b)** Pole 2 only:
- “(c)** Pole 3 only:
- “(d)** Pole 2 and Pole 1 one half pole:
- “(e)** Pole 3 and Pole 2 bipole **round power**:
- “(f)** Pole 3 and Pole 2 bipole not **round power**”.

- (3) In clause 1.1(1), replace the definition of **reference point** with:

**“reference point** means,—

“(a) for the North Island,—

- (i) the Haywards 220 kV bus to which the HVDC Pole 2 or Pole 3 **injection** or **offtake** is connected; or
- (ii) if there is no Pole 2 or Pole 3 **injection** or **offtake** connected to a Haywards 220kV bus, the first indexed Haywards 220 kV **node**;

“(b) for the South Island,—

- (i) the Benmore 220 kV bus to which the HVDC Pole 2 or Pole 3 **injection** or **offtake** is connected; or
- (ii) if there is no Pole 2 or Pole 3 **injection** or **offtake** connected to a Benmore 220kV bus, the first indexed Benmore 220 kV **node**”.

(4) In clause 1.1(1), insert in its appropriate alphabetical order:

**“round power** means a mode of operation of the **HVDC link** where power is transferred in opposite directions on Pole 2 and Pole 3”.

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### **Explanatory Note**

*This note is not part of the Code Amendment, but is intended to indicate its general effect.*

This amendment to the Electricity Industry Participation Code 2010 comes into effect on 1 July 2012. This amendment replaces three definitions in Part 1 of the Code with updated definitions that allow for the connection of Pole 3 and the decommissioning of one half pole of Pole 1 of the HVDC link, inserts “round power” as a new definition and corrects typographical inconsistencies in the references to Pole 1 and Pole 2 in the definition of “configuration”.

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Date of notification in the *Gazette*: 17 May 2012.