APPLICATION GUIDE

FRONIUS GEN24, Verto, Tauro, SnapINverter
VIC Emergency Backstop Mechanism

CHANGE LOG

DATE	VERSION	COMMENTS	AUTHOR
30/09/2024	1.0	First version	Fronius Australia

SCOPE

This document describes the process of how to configure a Fronius inverter system to comply with the AEMO directive for Victoria´s Emergency backstop Mechanism for Solar.

The following inverter series are relevant to this document:

- **Fronius Primo & Symo GEN24 and GEN24 Plus**
- **Fronius Verto**
- **Fronius Tauro & Tauro ECO**
- **Fronius SnapINverter Primo, Symo, ECO, Galvo**

GENERAL

Stage 1 of the emergency backstop will commence on the 1.October 2024, new, upgraded or replacement solar systems (less or equal to 200kW) must comply.

The following 5 energy distributors are participating:

- This document does **not** cover the individual application process with the above mentioned energy distributors.
- **Single** device functionality (Primo & Symo GEN24 and GEN24 Plus, Verto, Tauro, Tauro ECO).
- **Multiple** device functionality for SnapINverter in a “Solar Net communication loop.”

1 Components

The following components are **required** as part of the system:

Fronius inverter:

- Fronius Primo or Symo GEN24, GEN24 Plus
- Fronius Verto
- Fronius Tauro or Tauro ECO
- Fronius Primo, Symo, Eco SnapINverters

NOTE: A minimum inverter firmware version of **≥ *1.33.x-x*** (GEN24, Verto, Tauro) or **≥ *3.31.1-5*** (Datamanager firmware of the SnapInver) is required.

Supported Fronius Smart Meters:

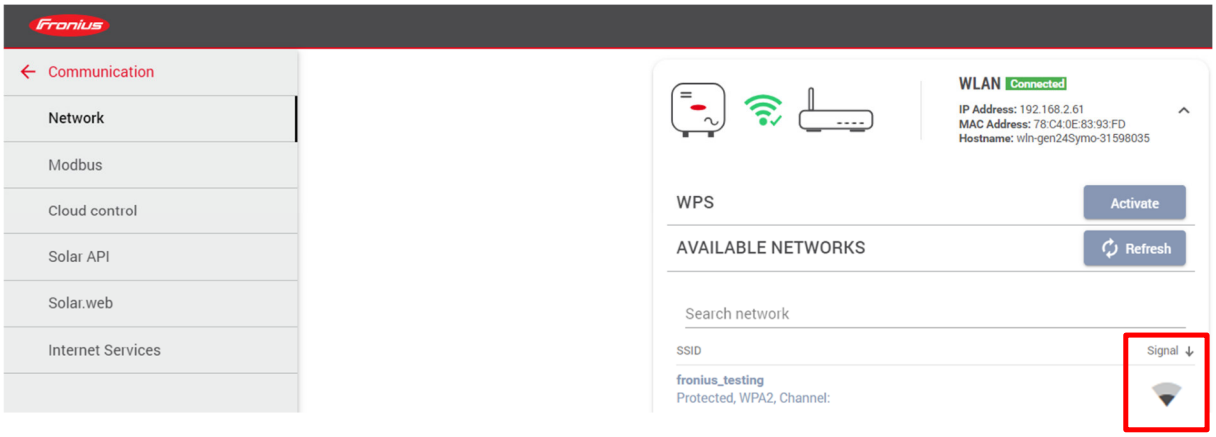
- Smart Meter 63A-1; 63A-3; 50kA-3
- Smart Meter WR, 480V UL; 240V UL
- Smart Meter IP

Router:

A ethernet router with internet connection is required so that all inverters can be controlled via internet (IEEE 2030.5 – CSIP-AUS).

NOTE: A hard wired ethernet connection to the inverters is recommended to ensure stable and reliable operation. Where a Wi-Fi connection is the only possible connection, the signal strength must be equal or better than 

- Click on “**Communication**” then “**Network**” to check the signal strength.



If the connection to the router or internet is lost the inverter will go into “**Default Control**” until the connection is restored. The “**Default Control**” value vary depending on the DNSP (e.g. 1.5kW…)
Once the internet is restored, the latest active DER Control is enabled (e.g. 5kW)

2 General Configuration

- DNSP application and approval needs to be achieved before commissioning the system.
- A stable internet connection needs to be established.
- The inverter needs to be configured and registered to Solarweb.
- Solarweb configuration to allow remote control.

3 Inverter Configuration Setup (GEN24/Verto/Tauro)

There are 4 x functions must be configured:

- **Inverter Setup**
- **Export Limitation – Default Control**
- **Enable Cloud Control**

3.1 Inverter Setup:

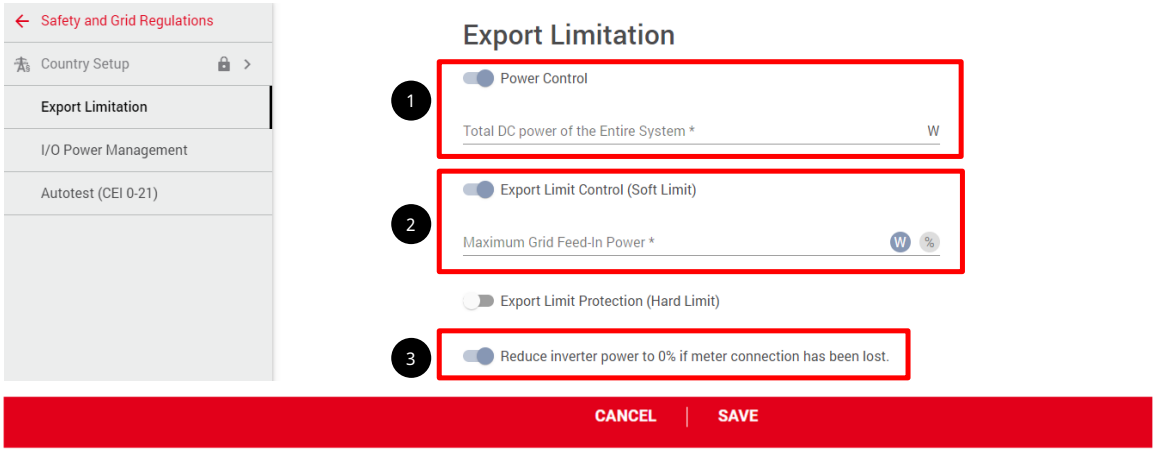
- Update inverter firmware to at least **1.33.x-x**

3.2 Export Limitation – Default Control

Connect to the user web interface and login using the **"Technician"** password.

If required, see our YouTube video: *How-To video: Connecting to the user interface of the GEN24/Tauro*

- Click on "**Safety and grid requirements**" in the menu on the left and then select "**Export limitation**".



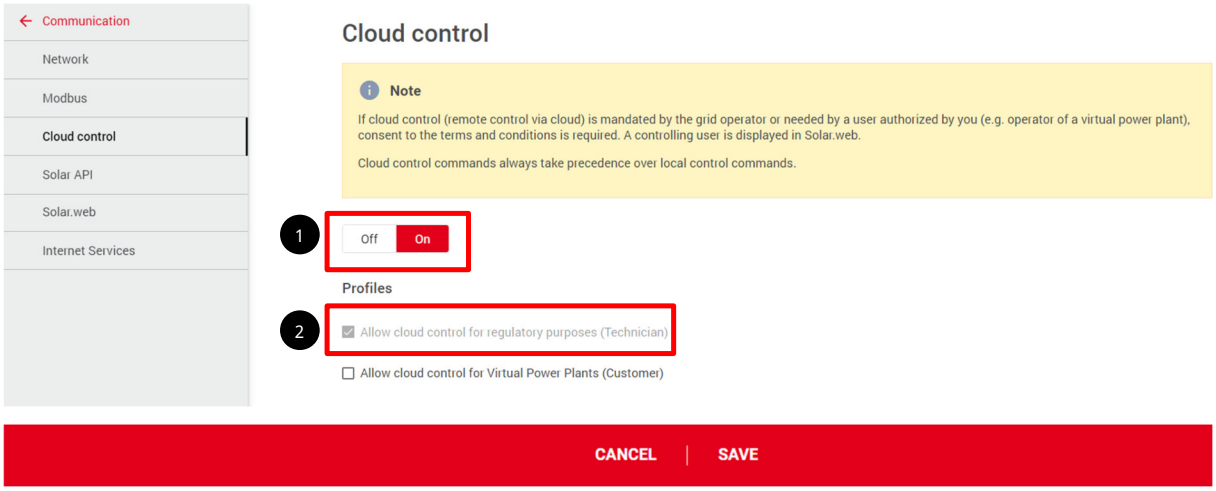
1. Activate "**Power limitation**" and enter the total system power (DC) in watts.
2. Activate **"Export Limit Control (Soft limit)"** and enter the **"Default Control "**grid feed-in power in W*.
3. Ensure that "**Reduce inverter power to 0% if meter connection has been lost**" is activated.
4. Click on **"Save"**

***** The **"Default Control"** value will vary depending on the DNSP.

The system will fall back to the **"Default Control "** value when the internet connection is lost. Once the internet is restored, the latest active DER control is enabled.

3.3 Enable Cloud Control

– Click on “**Communication**” in the menu on the left and then select “**Cloud Control**”.



1. Activate “**Cloud Control**” and enter the total system power (DC) in watts.
2. Ensure**“Allow cloud control for regulatory purposes (Technician)“** is activated.
3. Click on **“Save”**

4 Inverter Configuration Setup (SnapINverter)

There are 4 x functions must be configured:

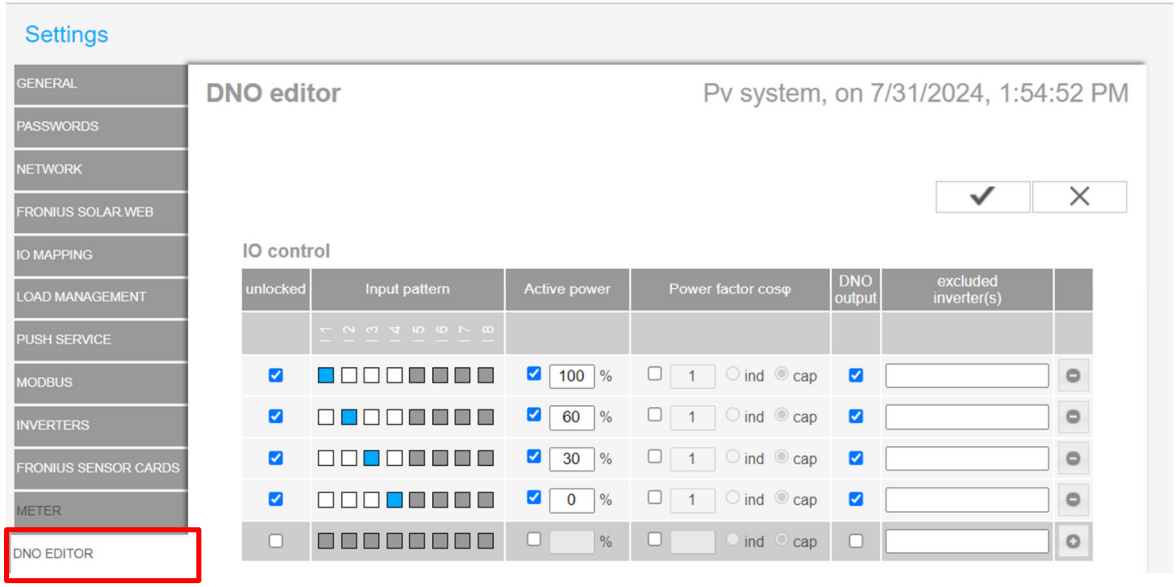
– **Inverter Setup**
– **Export Limitation – Default Control**
– **Enable Cloud Control**

4.1 Inverter Setup

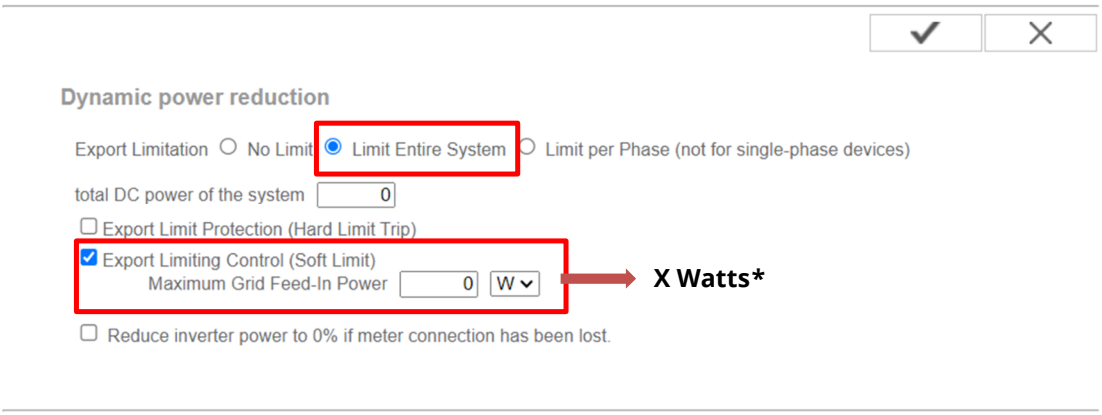
- Update inverter firmware to at least **3.31.1-5**

4.2 Export Limitation

- Navigate to “**DNO editor**”



- Set “**Limit entire system**” in the “**Dynamic power reduction**”
- Set “**Total DC system power of the system**” and “**Maximum grid feed-in power**” to “**X Watts**”*.
- Click on the “**check**” to save the settings.

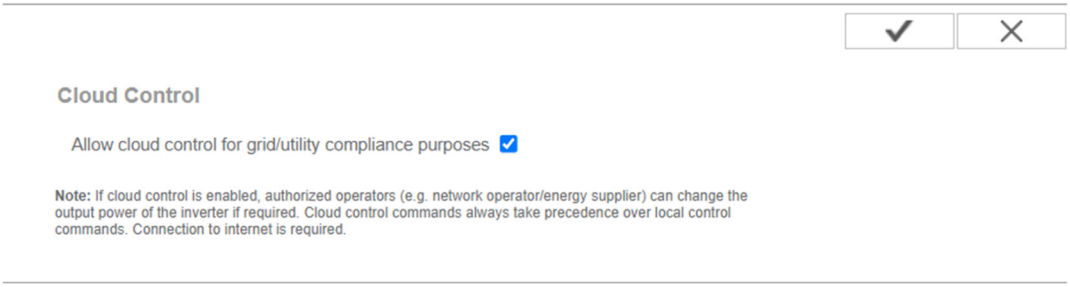


***** The **“Default Control“** value will vary depending on the DNSP.

The system will fall back to the **“Default Control “** value when the internet connection is lost. Once the internet is restored, the latest active DER control is enabled.

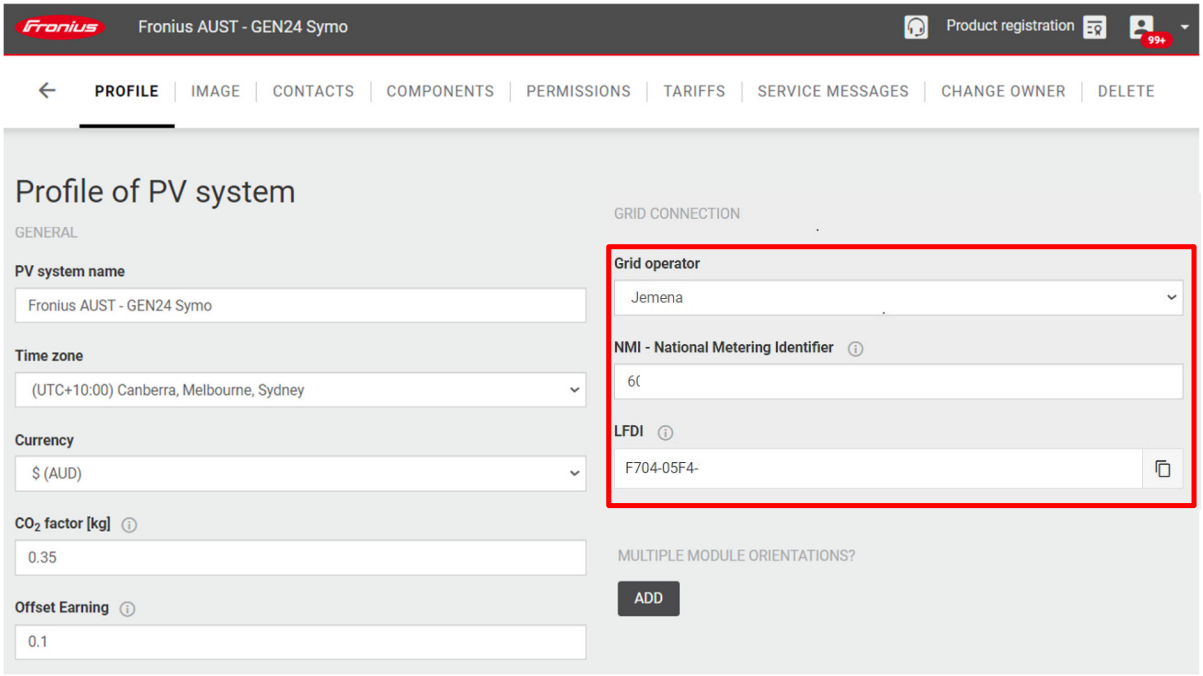
4.3 Enable Cloud Control

- Set "**Allow cloud control for grid/Utility purposes**" in the "**Cloud Control**"
- Click on the "**check**" to save the settings.



5 Solarweb Platform configuration

- Navigate to the system on Solarweb and click on **"Settings".**
- Set **"Grid Operator"** under **"Profile".**
- Add the **"NMI"** of the site.
- Tick the registration box.
- **"LFDI"** is required in some cases to be added to the DNSP registration portal.



END OF DOCUMENT

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For more detailed information see the operation manual available on the product specific page on here.