



*Atlas Copco*



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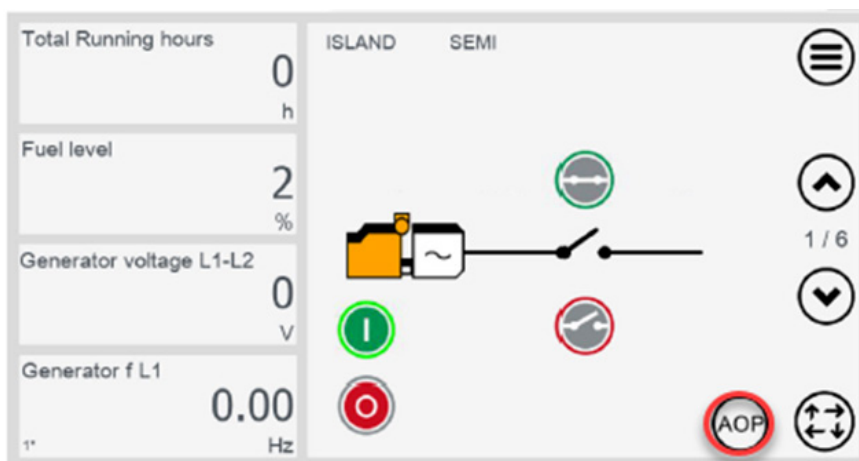
**Step by Step  
Atlas Copco  
Paralleling Procedure**

# Step by Step Atlas Copco Paralleling Procedure

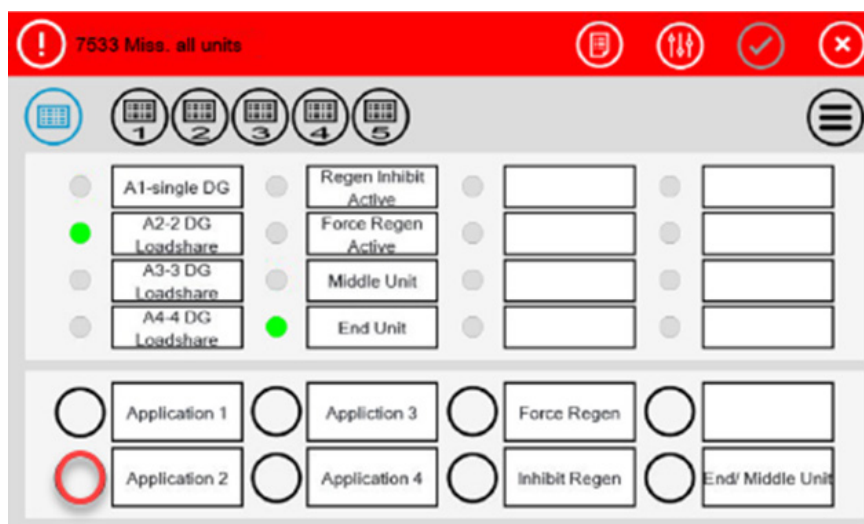
Paralleling involves the physical process of connecting two or more generators, which can increase power capacity, ease maintenance, use less fuel and ensure redundancy. Paralleling requires the synchronization of power outputs, which makes a power management system (that section above) an important consideration. Generators can usually be paralleled together as long as their frequencies and voltage are the same, but there are of course limitations with age, size and brands. Some factors to consider when paralleling include synchronization of units, voltage regulations, overall load balance, altitude of the site and ambient temperature, what it takes to start the motors and surge capacities.

In paralleling, the control systems of the generators need to communicate, so multiple units can produce the same voltage and frequency at the same phase angle (i.e. the sine waves peak at the same time). The connecting and synchronizing process used to include an intimidating network of wires, big switch gear and frequent manual interaction and monitoring. Modern paralleling generators benefit from today's computers that do most of the work.

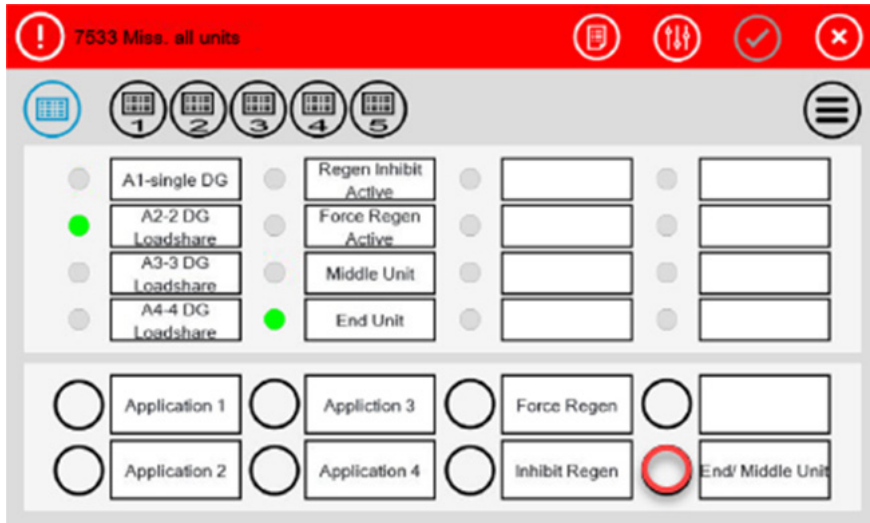
The first generator requires the following steps, press the AOP button:



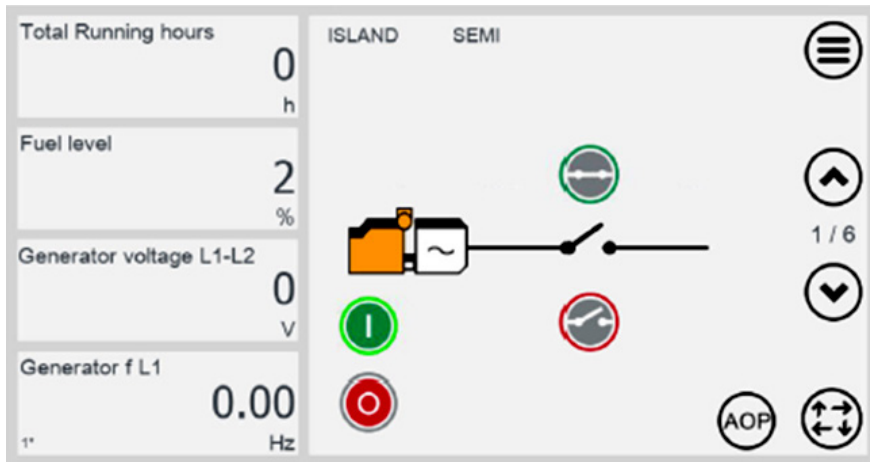
Turn on application 2:



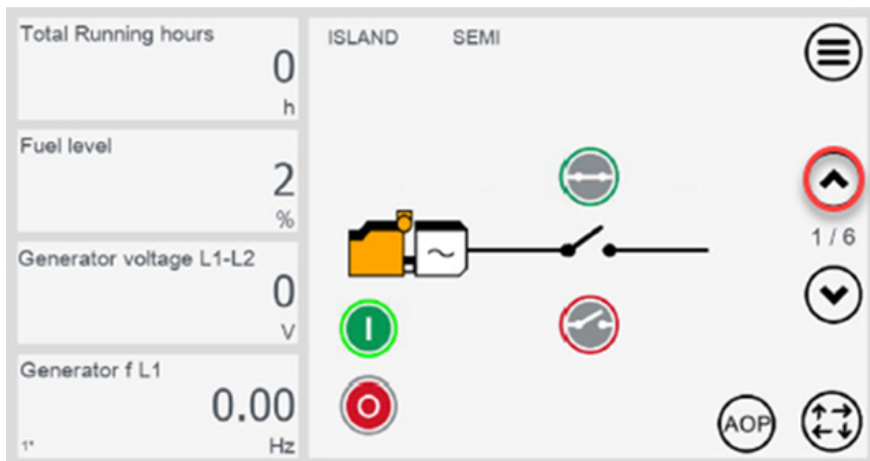
Turn on end unit:



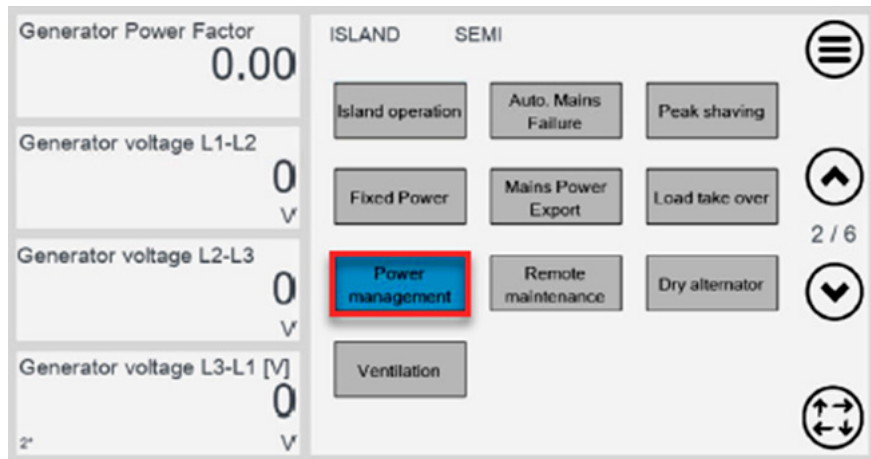
Returned to the home screen:



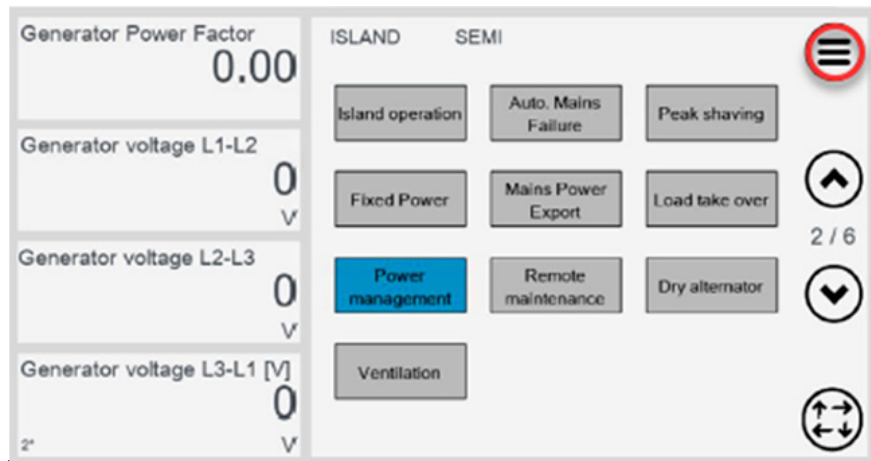
Press the up arrow:



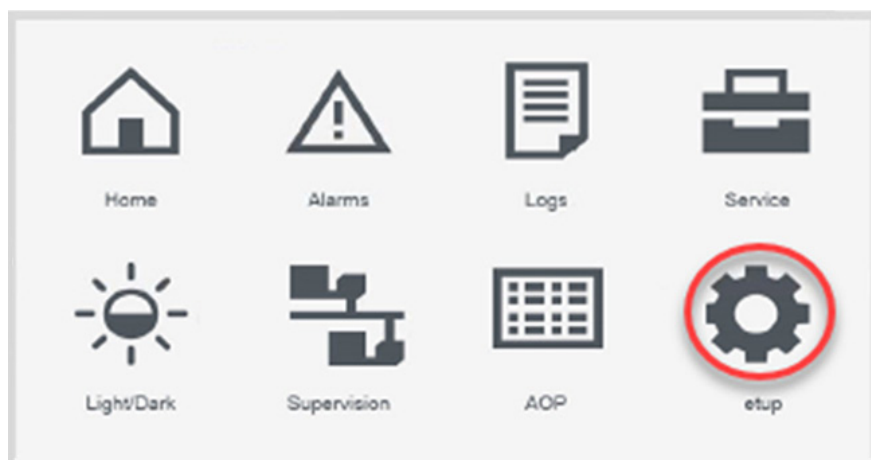
## Turn on power management:



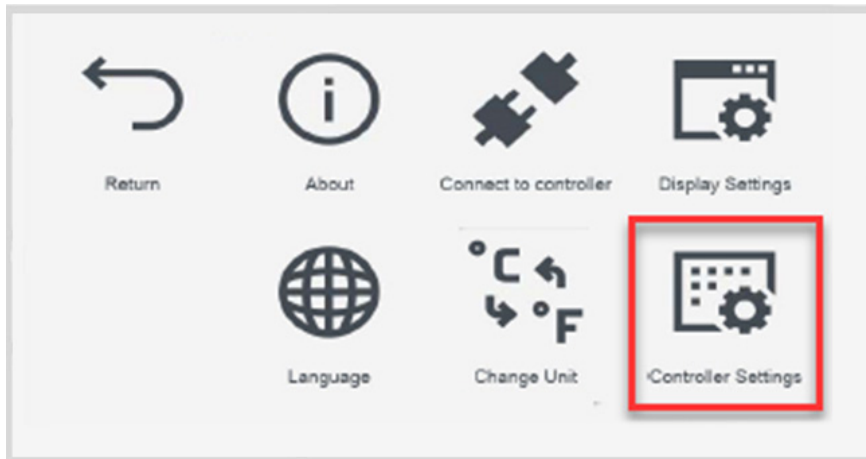
## Press the menu button:



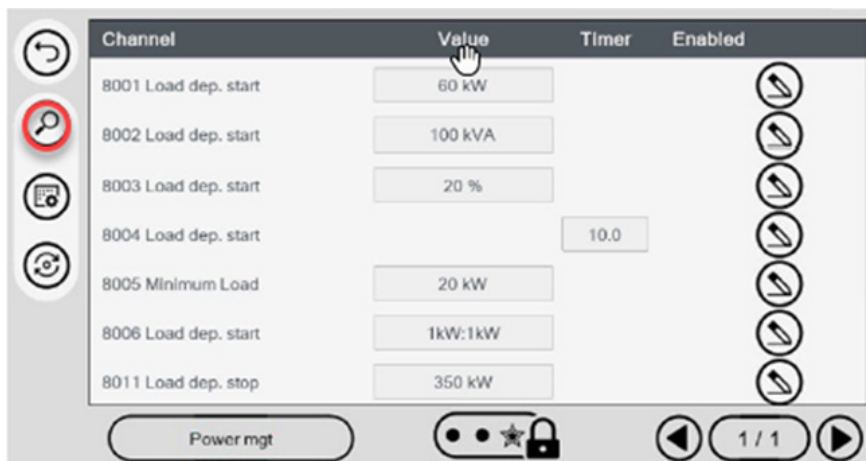
## Press setup:



## Press controller settings:



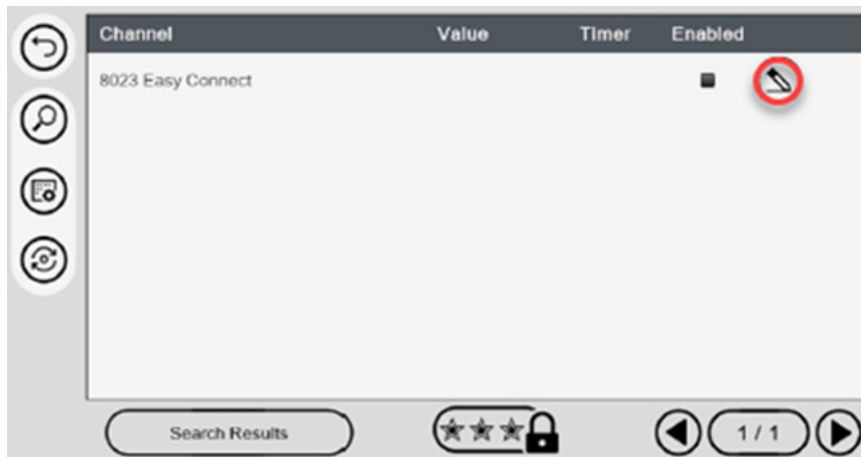
On the left side of the screen is a search button press and type in parameter 8023.



Enter:



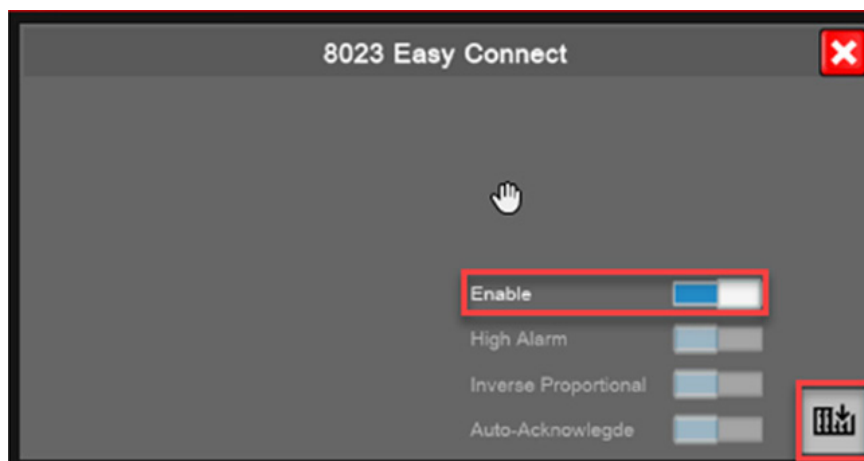
On the right of Easy Connect is a pencil—press:

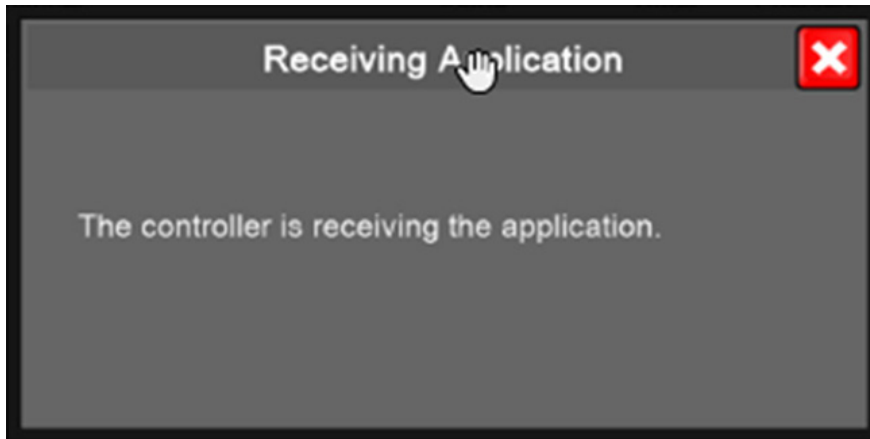


Password for customer is 2003, then press Enter:



Move to slide bar to enable and press enter—then wait for your messages:

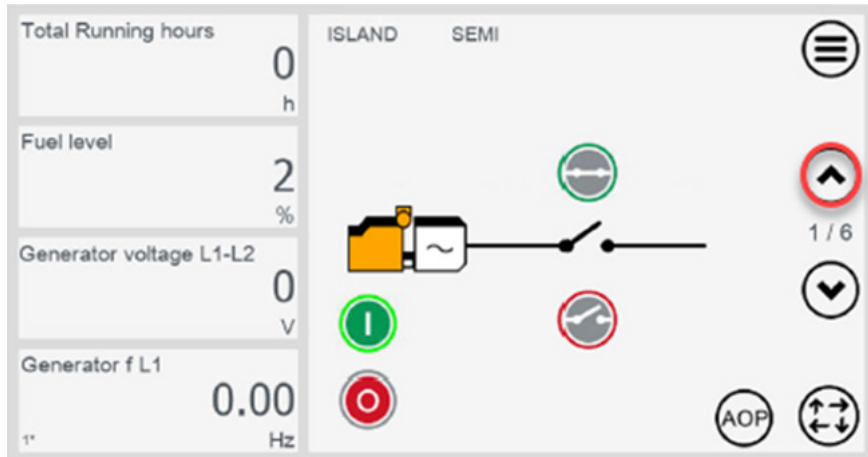




When start new plant message appears press the check and wait:

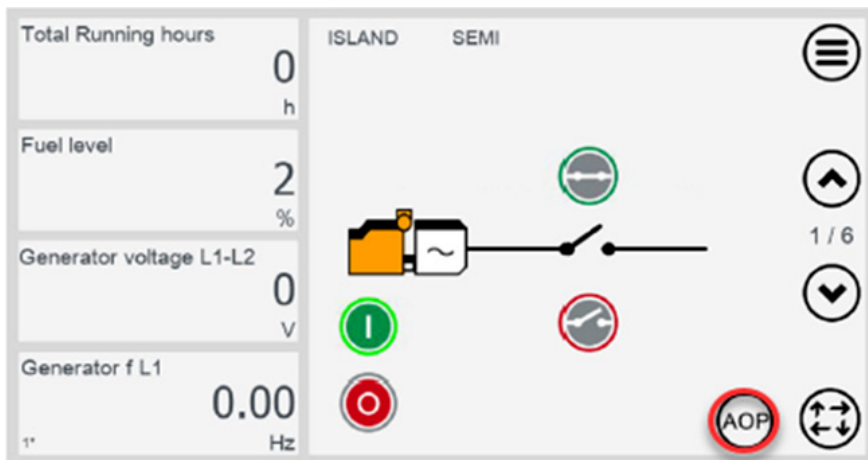


## Return to the home screen:

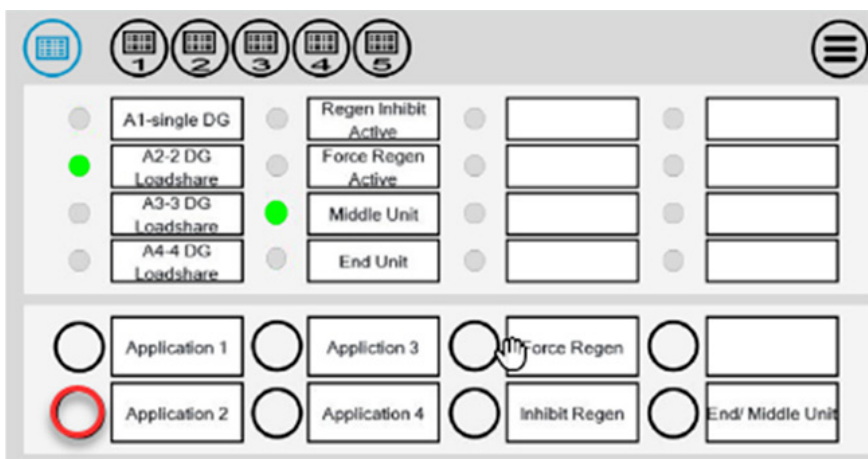


Connect the communication cable and proceed to the next unit. All the middle generators 2 -31 require the following steps: First connect the communication cable.

## Press the AOP button.:

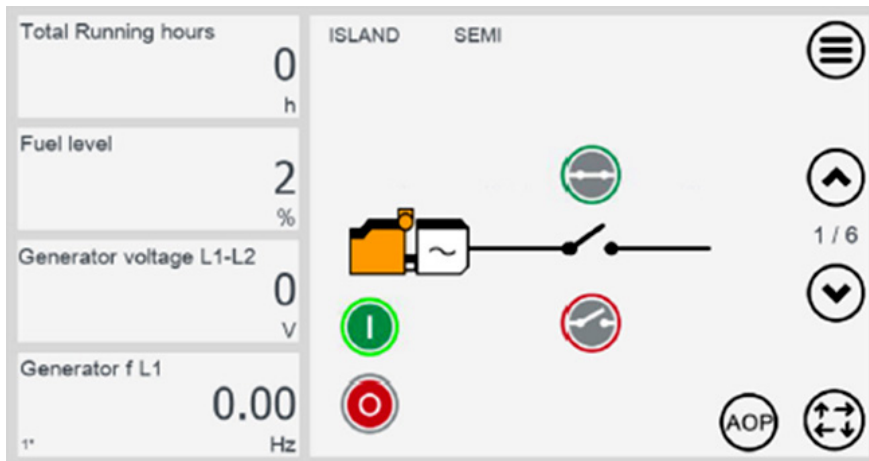
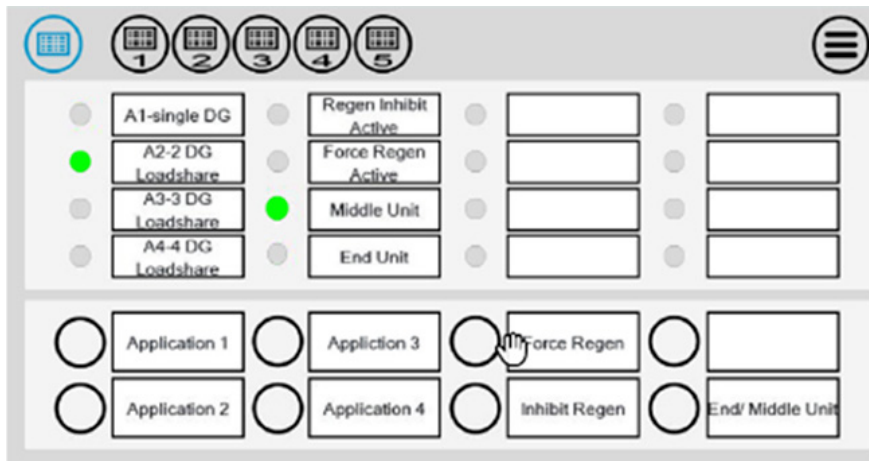


## Turn on application 2:

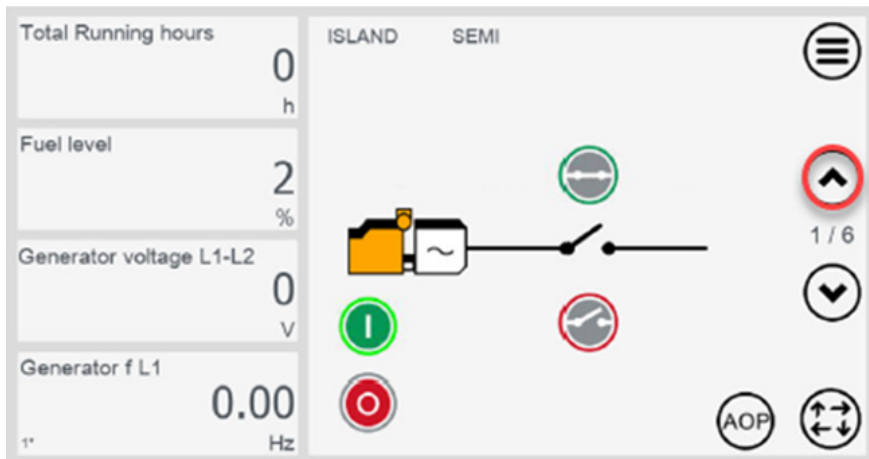




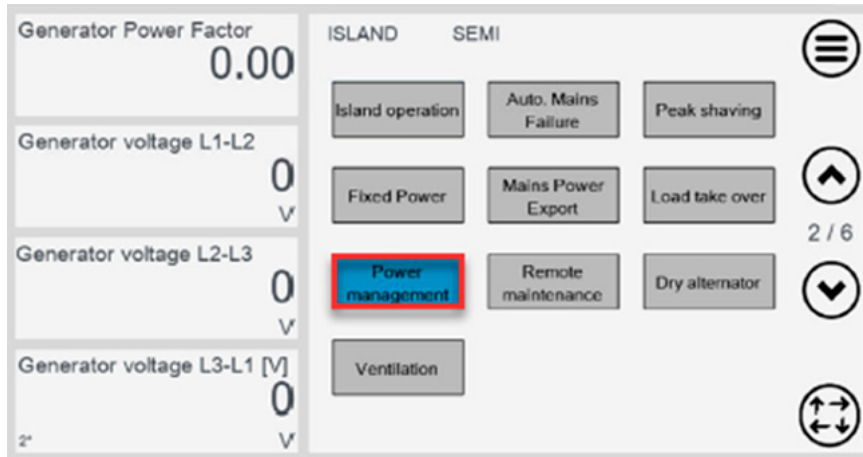
Leave middle unit on return to home screen:



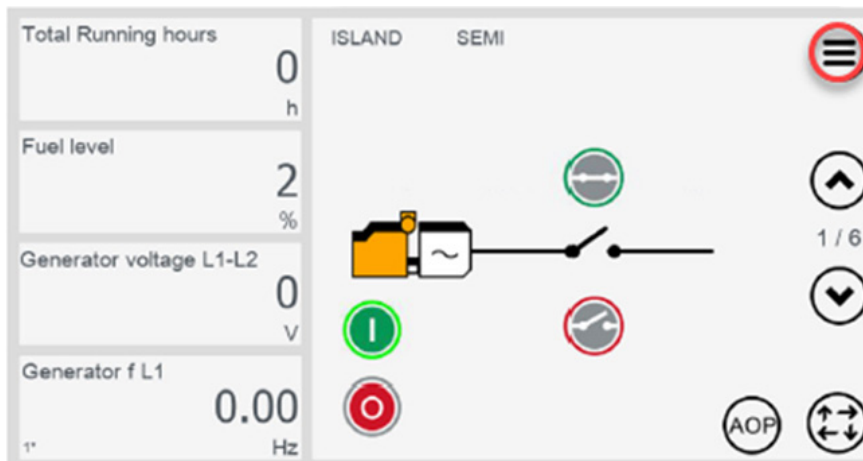
Press the up arrow



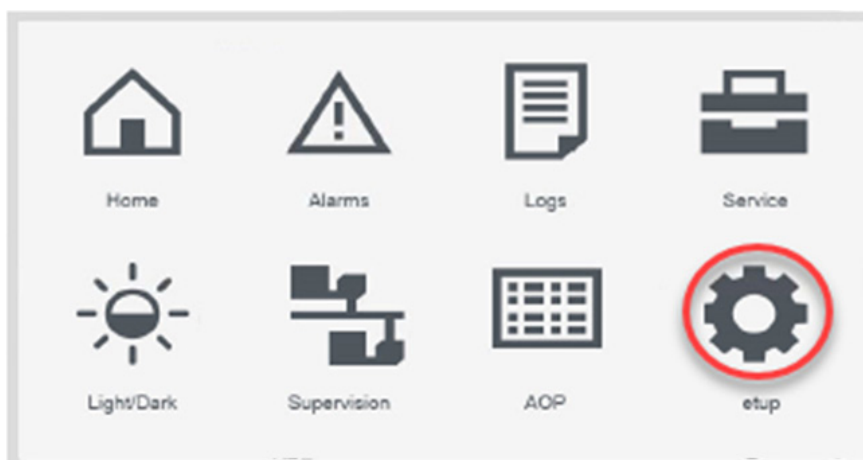
Turn on power management.



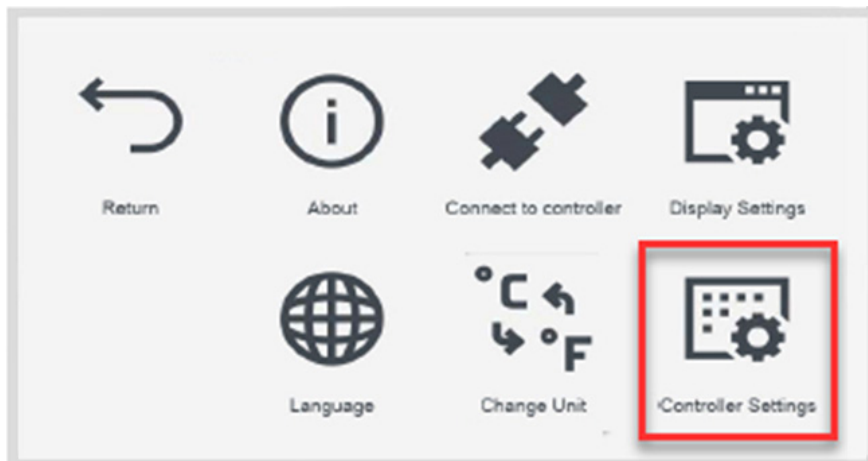
Press the menu button.



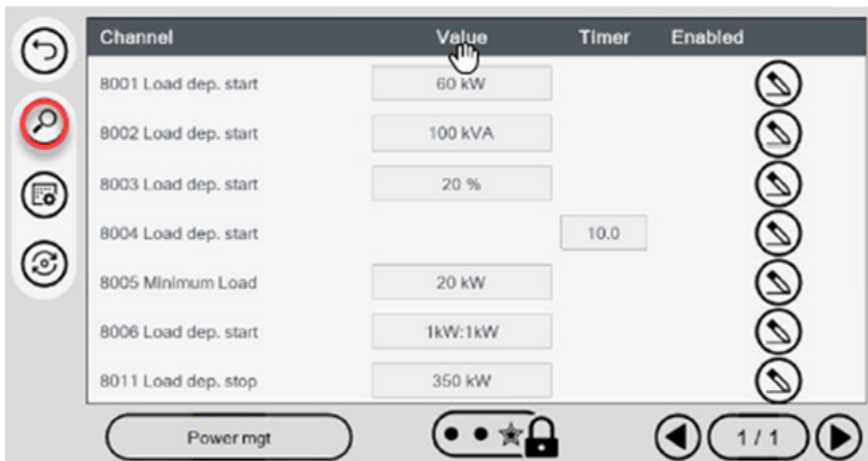
Press setup.



Press controller settings.



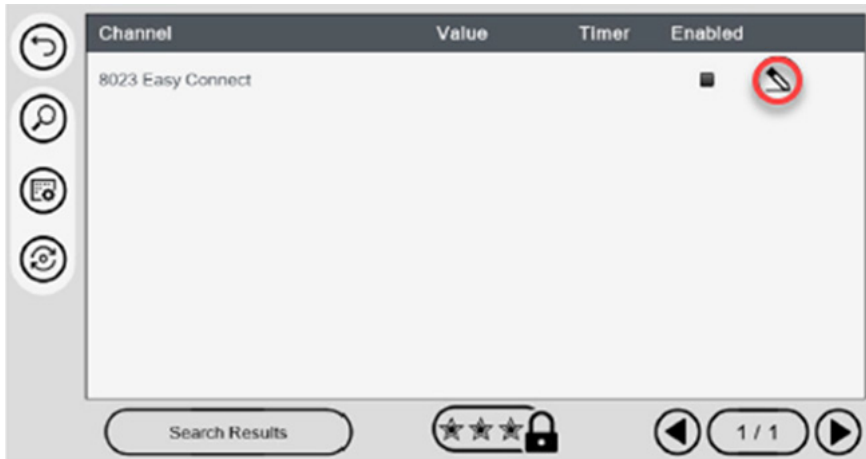
Press the search button on the left of the screen.



Type in parameter 8023, then enter.



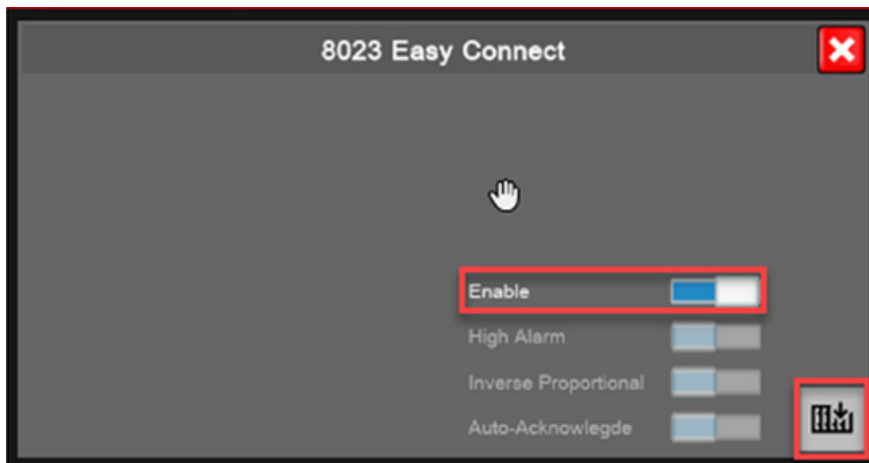
To the right of Easy Connect, press the pencil.



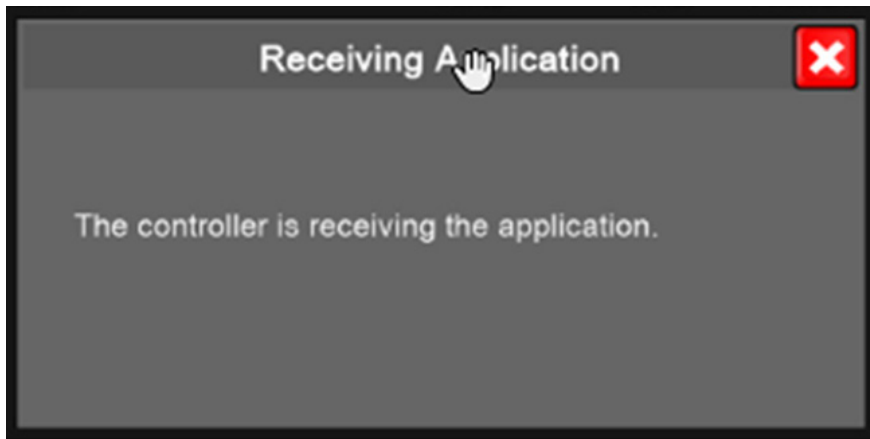
Enter customer password 2003, then enter.



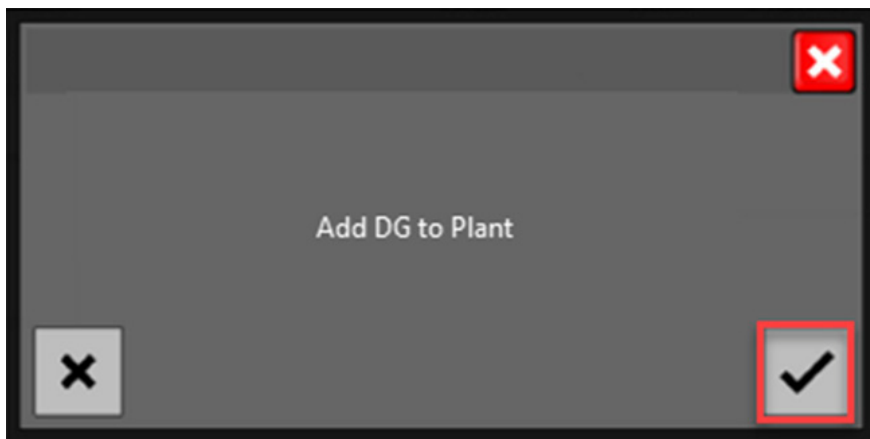
Move to slide bar to enable and press enter.



Now, wait.



Press the checkmark to add DG to plant.



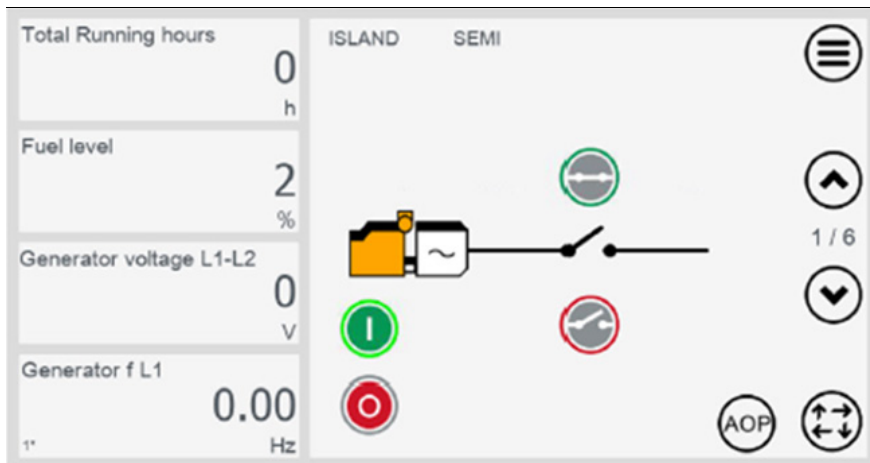
Now, wait.



Press the X in the upper right corner to clear all communication messages.

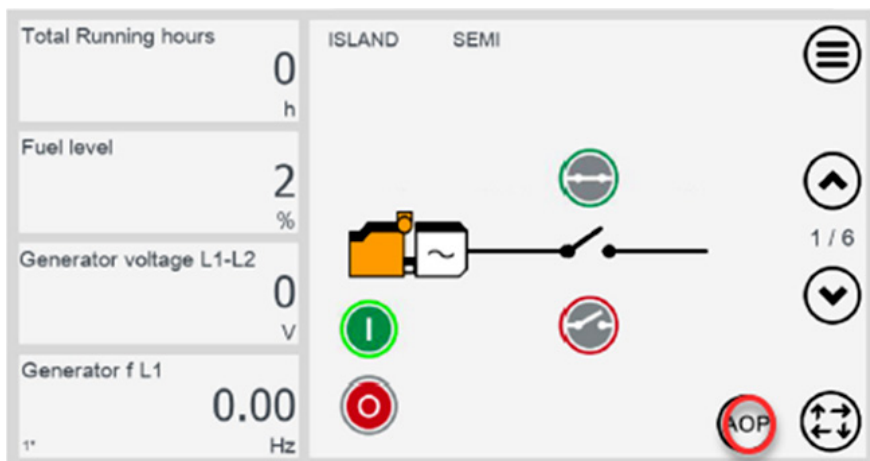


Return to home.

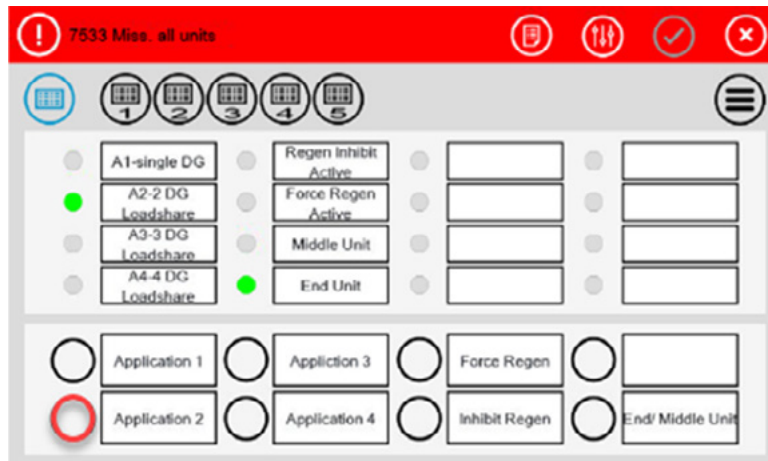


The last generator requires the following steps, first connect the communications cable.

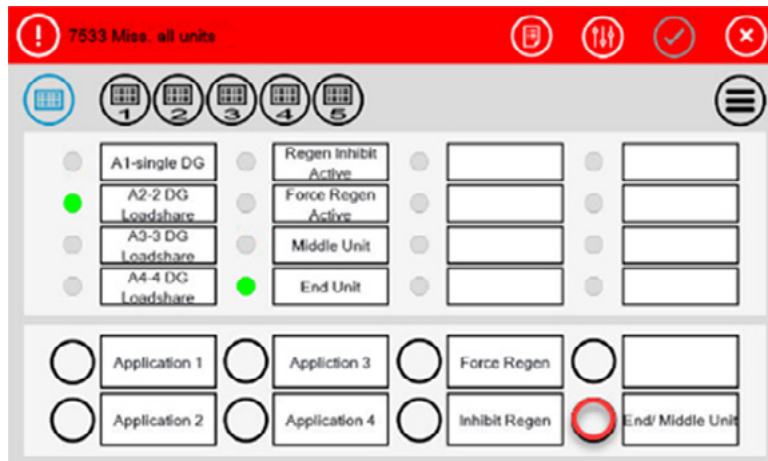
Press the AOP button,



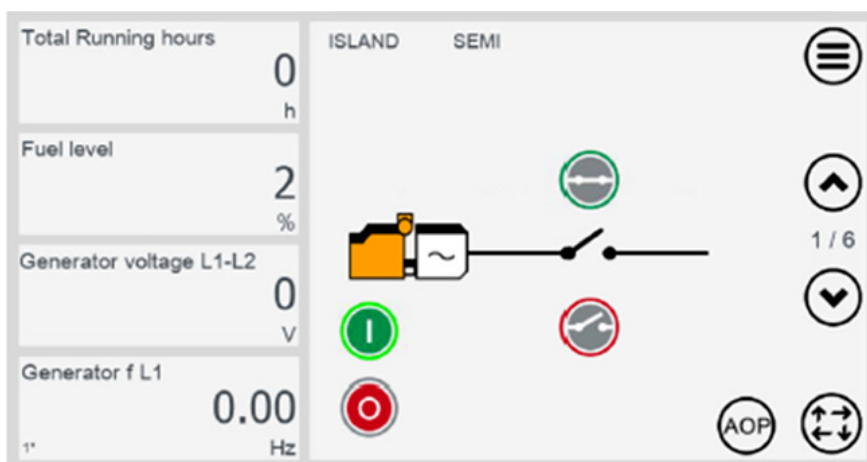
## Turn on application 2



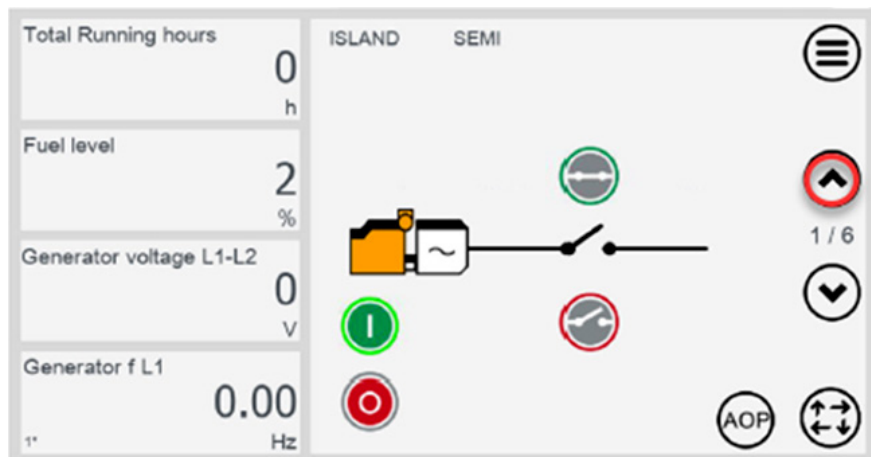
## Turn on end unit.



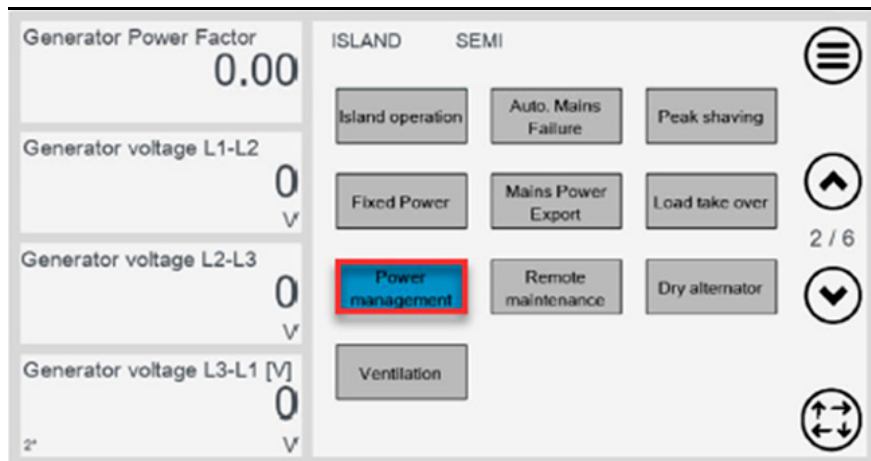
## Return to the home screen.



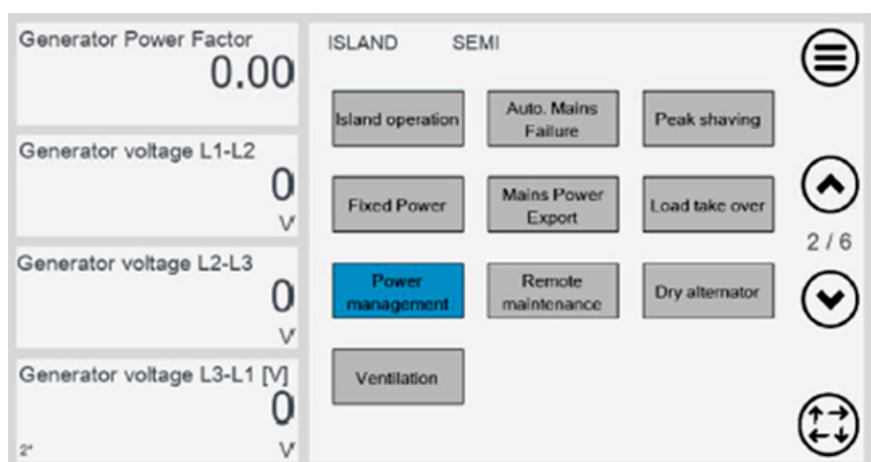
Press the up arrow.



And turn on power management.

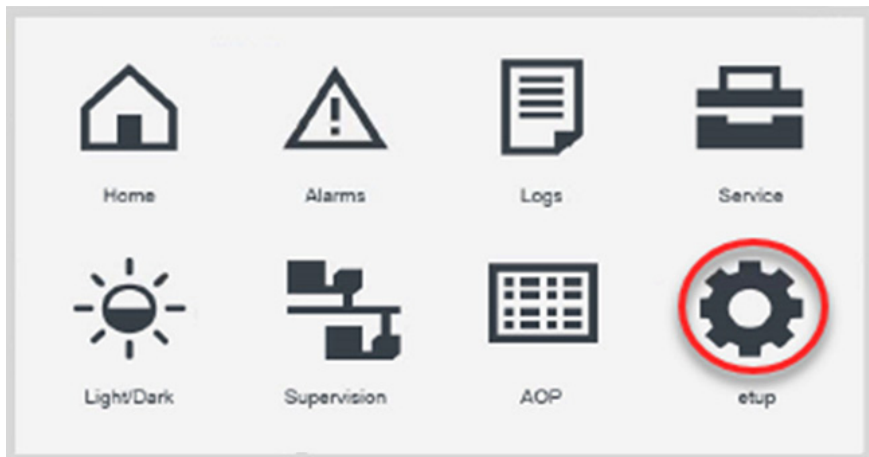


Press the menu button.

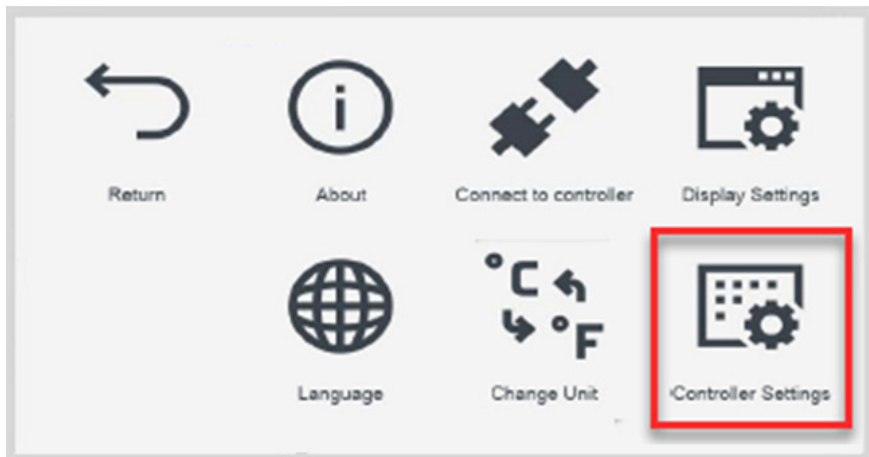




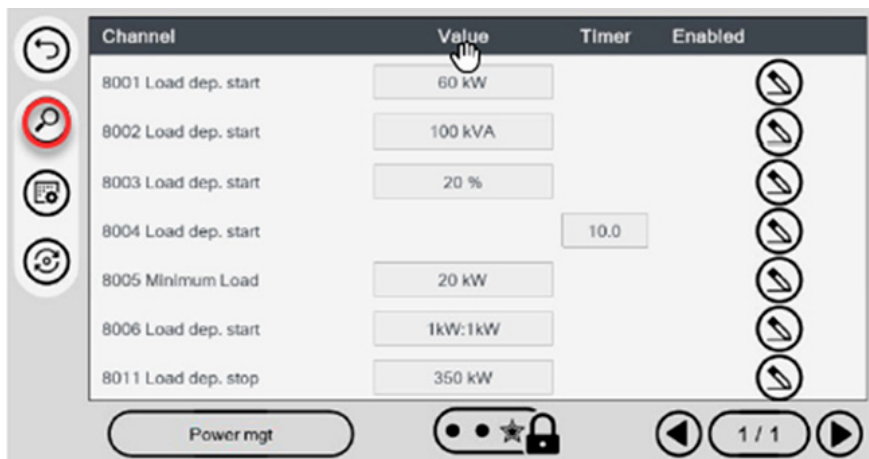
Press setup.



Press controller settings.

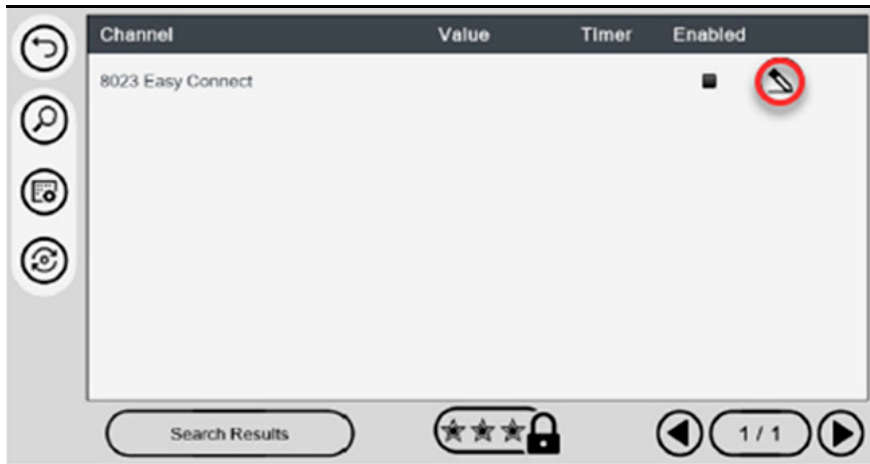


Press the search button on the left side of the screen and type in parameter number 8023 and press enter.





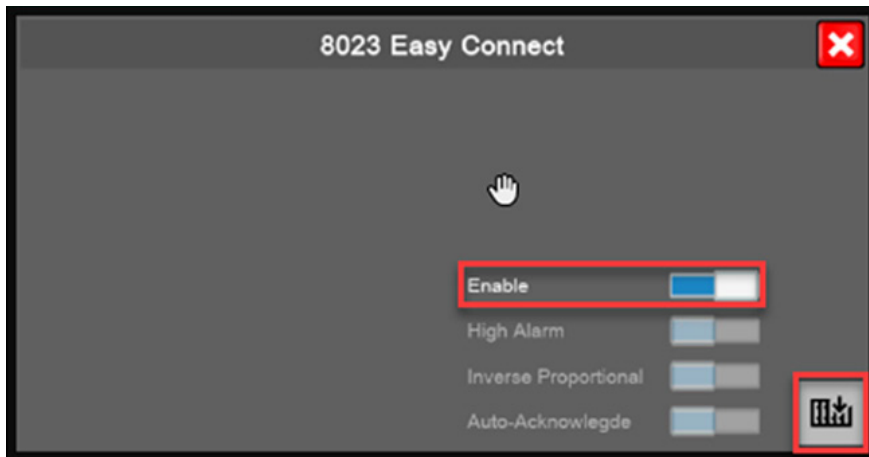
To the right of the easy connect parameter, touch the pencil



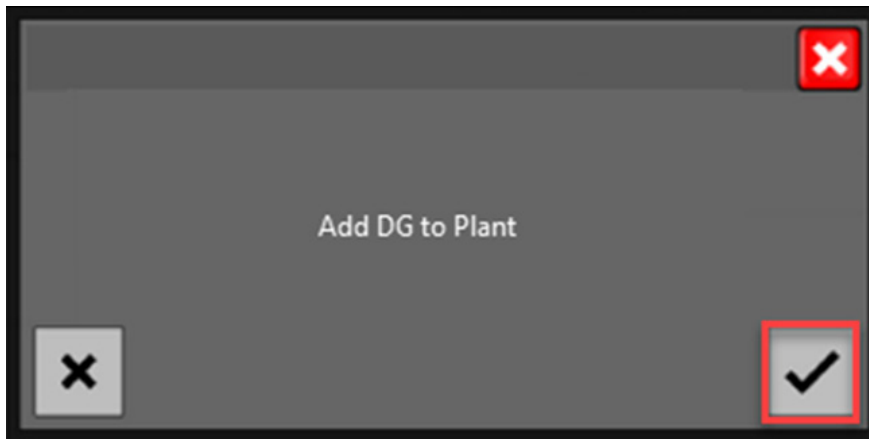
Enter customer password 2003 and press enter



Move to slide bar to enable and press enter.



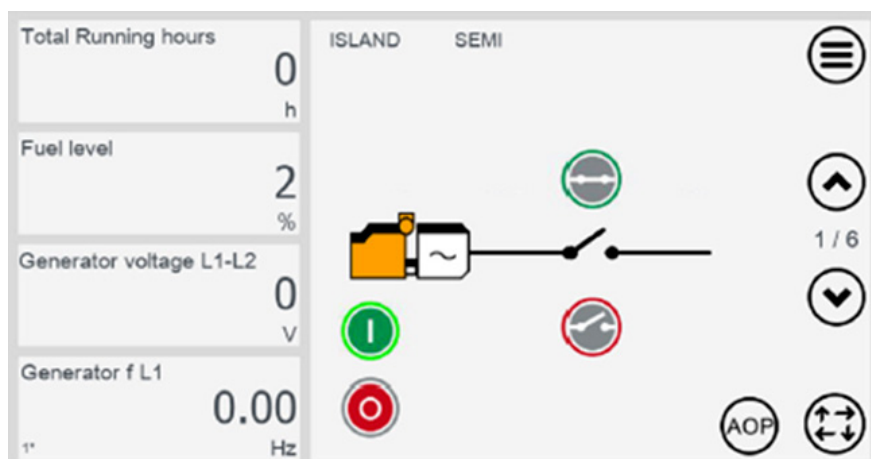
Press the check mark to add to add DG plant and then wait.



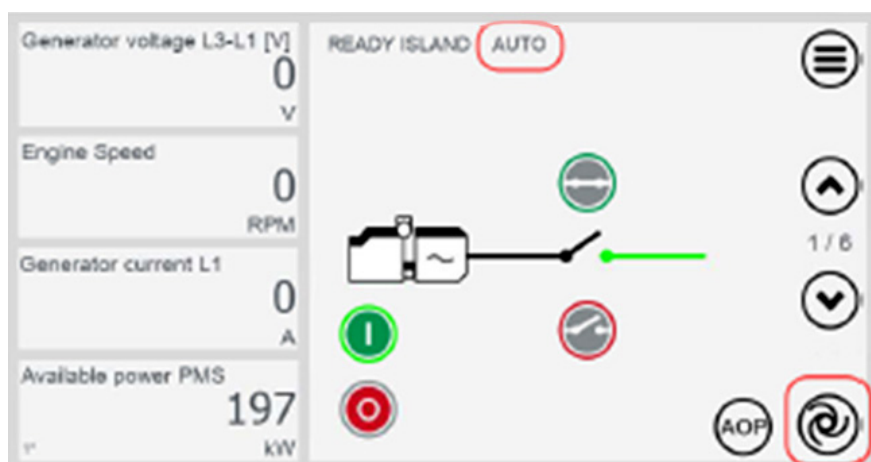
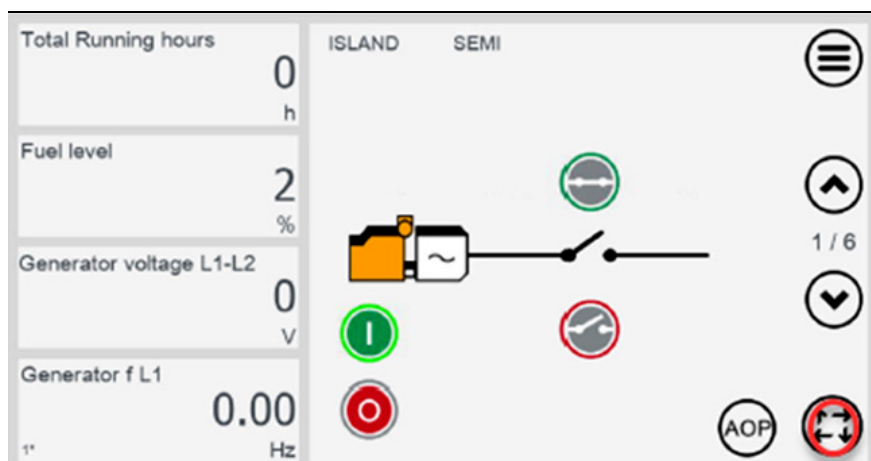
In the upper right corner, Press the X to clear out all communication messages.



## Return to home.



In the lower right corner touched the button with the four arrows and switch it from Sem-Auto to Auto



Confirm.

Your plant is now set up and ready to produce power.



