

# Off-grid quick install manual

write introduction

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## Step 1 - Understand how a Victron Energy off-grid system works

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## Step 2 - Decide what type of off-grid system

AC or DC coupled? monitoring

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## Step 3 - Select the system hardware

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## Step 4 - Install all equipment

Install and wire all system parts according to their manuals. Do not connect communication cables between the various parts, this will be done at later stage

## Step 5 - Update firmware of all equipment

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## Step 6 - Set up parallel and/or 3 phase inverter/chargers

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## Step 8 - Connect all communication cables

- Connect CCGX to inverter/chargers use RJ45 cable
  - Connect MPPT to CCGX use VE.direct cable
  - Connect BMV to CCGX VE.direct cable
  - Connect smart battery to CCGX, use special RJ45 cable
  - Connect CCGX to internet via Ethernet cable or WiFi module
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## Step 9 - Make the Venus-device settings

- Go to CanBus, select smart battery
  - Find Fronius, SMA or Solar edge on CCGX. assign correct role
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## Step 10 - Set up VRM

Go to Victron VRM  
Make a user account (in case you do not yet have account)  
Add the system to your account  
Check if logging is correct

For more information, refer to the VRM Portal documentation.

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## Step 11 - Commissioning

Commission the system, see ESS manual, section Commissioning.  
Consider limiting access to end-user  
Consider turning automatic firmware updates off

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Last update: **2019-01-22 10:42**

