






# Backup Interface Installation Checklist

<b>1. Installation and Wiring at the Backup Interface</b>		
1.1	Check the torque of all the securing bolts for the mounting bracket and conduit holder.	<input type="checkbox"/>
1.2	Check the torque of all the electrical connections inside the Backup Interface	<input type="checkbox"/>
1.3	Take a photograph of the Backup Interface connection area (useful for future debugging, if necessary).	<input type="checkbox"/>
1.4	If required, verify that the neutral-ground bonding jumper was installed.	<input type="checkbox"/>
1.5	Verify the 7-pin communication wiring to the inverter.	<input type="checkbox"/>
1.6	If no external RSD is used, verify the external RSD jumper is installed.	<input type="checkbox"/>
1.7	Verify the DIP switches are in the correct position.	<input type="checkbox"/>
1.8	Take a photograph of the Backup Interface communications connection area (useful for future debugging, if necessary).	<input type="checkbox"/>
1.9	Verify the inverter has been wired to the circuit breaker.	<input type="checkbox"/>
1.10	If additional circuit breakers have been installed, verify both sides have been torqued correctly.	<input type="checkbox"/>
1.11	If the installation has been completed, make sure the inverter circuit breaker is in the ON position.	<input type="checkbox"/>
<b>2. Installation and Wiring at the Energy Hub or StorEdge Inverter</b>		
2.1	Verify all grounding connections have been torqued properly.	<input type="checkbox"/>
2.2	Verify the termination of the inverter output circuit.	<input type="checkbox"/>
2.3	If connected, verify the termination of the Smart EV Charger power supply.	<input type="checkbox"/>
2.4	Verify safe DC voltage of the connected strings for polarity and correctness.	<input type="checkbox"/>
2.5	Verify the PV input connections.	<input type="checkbox"/>
2.6	Verify the conductors are connected correctly to the Energy Hub inverter.	<input type="checkbox"/>
2.7	Verify the 7-pin communication wiring to the Backup Interface.	<input type="checkbox"/>
2.8	Verify the 4-pin communication wiring to the battery.	<input type="checkbox"/>
2.9	Verify the RS485-2 communication wiring to external SolarEdge devices, such as Smart EV Charger or additional inverters.	<input type="checkbox"/>
2.10	Verify the 9V battery has been installed.	<input type="checkbox"/>
2.11	Verify the cellular antenna cable is routed behind the inverter and protected from damage.	<input type="checkbox"/>
2.12	Confirm the cellular antenna is attached to the mounting bracket.	<input type="checkbox"/>
2.13	Take a photograph of the Connection Unit (useful for future debugging, if necessary).	<input type="checkbox"/>
<b>3. Installation and Wiring at the Battery</b>		
3.1	Verify the DC positive, negative, and ground conductors are terminated properly.	<input type="checkbox"/>
3.2	Verify the 4-pin communication wiring matches the wiring in the Energy Hub inverter.	<input type="checkbox"/>
<b>4. Installation and Wiring at the Smart EV Charger</b>		
4.1	Verify the termination of the L1, L2, and ground conductors.	<input type="checkbox"/>
4.2	If a Smart EV Charger is used:	
	<ul style="list-style-type: none"> <li><input type="checkbox"/> Verify RS485 wiring from the Smart EV Charger to the Energy Hub inverter.</li> <li><input type="checkbox"/> Verify the DIP switches on the communication interface board are in the up position.</li> </ul>	
4.3	Verify the position of the DIP switches to increase or decrease the charge amperage.	<input type="checkbox"/>
<b>5. Installation and Wiring at Grid Connection</b>		
5.1	Verify the feeders to the Backup Interface are torqued correctly.	<input type="checkbox"/>
5.2	If the system is installed for partial backup, verify the placement of additional CTs.	<input type="checkbox"/>
5.3	Take a photograph of the electrical connections (useful for future debugging, if necessary).	<input type="checkbox"/>
5.4	Take a photograph of the CTs, if used (useful for future debugging, if necessary).	<input type="checkbox"/>
<b>6. Installation and Wiring at the Backup Panel</b>		
6.1	Verify the feeders from the Backup Interface are torqued correctly.	<input type="checkbox"/>
6.2	If using the Backup Interface as a service side connection, make sure the bonding jumper is installed.	<input type="checkbox"/>
6.3	If the bonding jumper is installed in the Backup Interface, make sure ground and neutral are isolated in all other locations.	<input type="checkbox"/>
6.4	Take a photograph of the electrical connections (useful for future debugging, if necessary).	<input type="checkbox"/>
<b>7. Activation and Firmware Upgrade</b>		
7.1	Reinstall the Backup Interface cover and Energy Hub inverter covers. Verify the screws are tightened as required.	<input type="checkbox"/>
7.2	Verify the manual bypass switch is in the ON position.	<input type="checkbox"/>
7.3	Verify the battery circuit and auxiliary/disconnect breaker are in the ON position, as specified in the manufacturer's instructions.	<input type="checkbox"/>
7.4	Turn the inverter's DC disconnect switch to the ON position.	<input type="checkbox"/>
7.5	Turn the Backup Interface's ON/OFF switch to the ON position.	<input type="checkbox"/>
7.6	Open SetApp and connect to the inverter by scanning the QR code and turning on the inverter's Wi-Fi.	<input type="checkbox"/>

7.7	Verify the inverter activates.	<input type="checkbox"/>
7.8	Verify the inverter and battery FW are upgraded automatically.	<input type="checkbox"/>
7.9	Verify the optimizers have been paired to the inverter.	<input type="checkbox"/>
<b>8. Configuration and Verification in SetApp</b>		
8.1	Select <b>Commissioning&gt;Site Communication</b> and verify all batteries are configured to RS485-1.	<input type="checkbox"/>
8.2	Select <b>Commissioning&gt;Site Communication</b> and verify that Meter 2 is programmed as an import/export meter, if a Backup interface is connected.	<input type="checkbox"/>
8.3	Select <b>Commissioning&gt;Maintenance&gt;Diagnostics&gt;Self-Test&gt;Battery Self-Test</b> and run the test for all connected batteries. Make sure all batteries pass the test.	<input type="checkbox"/>
8.4	Select <b>Commissioning&gt;Power Control&gt;Energy Manager&gt;Storage Control</b> and verify the connected batteries are programmed to the desired mode of operation.	<input type="checkbox"/>
8.5	Select <b>Commissioning&gt;Power Control&gt;Energy Manager&gt;Backup Configuration</b> and verify the required settings are selected.	<input type="checkbox"/>
8.6	If a Smart EV Charger or additional inverters are connected, select <b>Commissioning&gt;Site Communication&gt;RS485-2</b> and change the setting to Leader. Run a <b>Follower Detect</b> to confirm that all connected devices are communicating with the inverter.	<input type="checkbox"/>
8.7	Select <b>Commissioning&gt;Status</b> and verify all connected devices are communicating. Verify the SOE of the connected batteries. Verify the Backup Interface is in the On-Grid mode.	<input type="checkbox"/>
8.8	Perform a backup test:	
	 Verify the inverter has a high DC voltage (>350Vdc).	<input type="checkbox"/>
	 Turn on the grid AC input to the Backup Interface.	<input type="checkbox"/>
	 Verify that the backed-up loads are being supplied.	<input type="checkbox"/>
8.9	Take screen captures of the above menus (useful for future debugging, if necessary).	<input type="checkbox"/>