SA Power Networks

CMP Guide 2026

Compliance Monitoring Program



Contents

CMP Guide 2026 0
Document Control 1
Creating Your Compliance Monitoring Program (CMP) 2
A Concise Guide for Customers and Consultants 2
Purpose 2
How to complete the template 2
1. Update all customer and project details 2
2. Complete the Reference Documents and Introduction 3
3. Add your site Operating Philosophy 4
4. Review the CMP compliance tables 4
5. Include synchronous generation requirements where applicable 5
6. Keep the required evidence and records 5
7. Submit the completed CMP 6
Need help? 6

Document Control

Version	Date	Author	Notes
1	2026	Victor Ho	

Creating Your Compliance Monitoring Program (CMP)

A Concise Guide for Customers and Consultants

Purpose

Your Compliance Monitoring Program (CMP) records how your generating system will continue to meet its approved connection requirements after it is connected to the SA Power Networks network.

The CMP supports the **three-yearly compliance review** of your system. It outlines the tests, monitoring, responsibilities and records needed to demonstrate ongoing compliance with the requirements in your approved **Engineering Report**, including protection, power quality, remote monitoring/control and, where relevant, synchronous generation equipment.

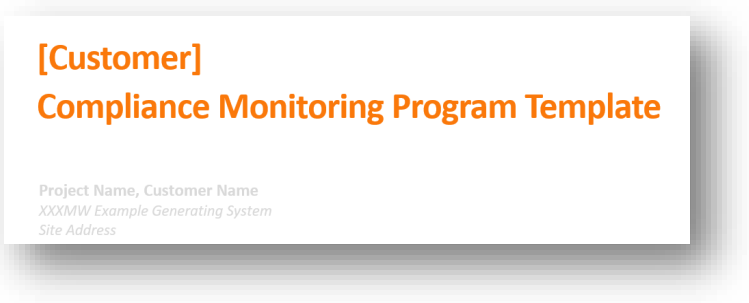
A template has been provided to make this process straightforward. Use the template to develop a CMP that reflects the requirements applicable to your installation, as set out in the approved Engineering Report and other relevant connection agreement.

Template can be found on our website here: Compliance Monitoring Program

How to complete the template

1. Update all customer and project details

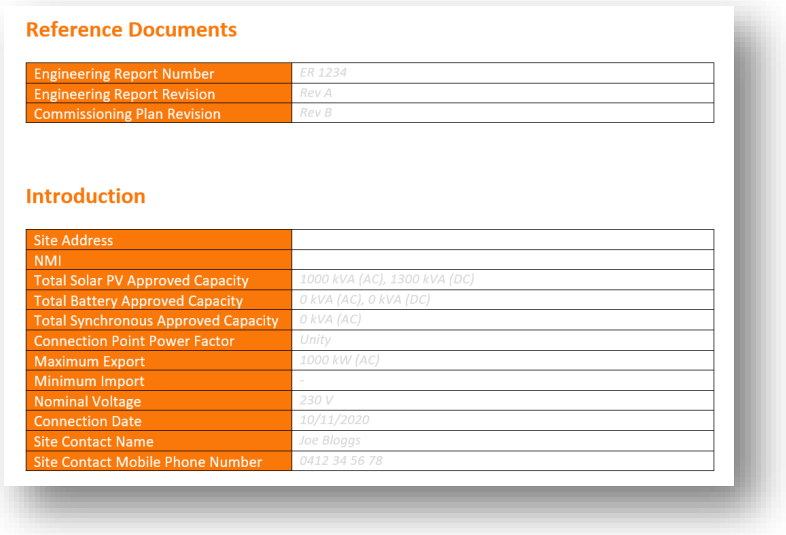
Replace all greyed-out/example text with information relevant to your site.



On the **cover page**, update details such as:

- Customer name
- Project name
- Generating system size/capacity (MW or kVA, as applicable)
- Site address
- Document version and date

2. Complete the Reference Documents and Introduction



Reference Documents

Engineering Report Number	ER 1234
Engineering Report Revision	Rev A
Commissioning Plan Revision	Rev B

Introduction

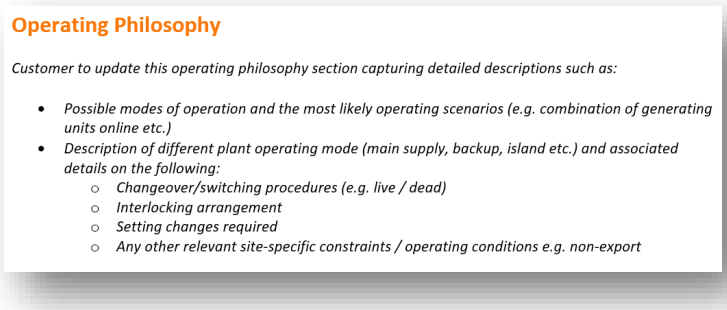
Site Address	
NMI	
Total Solar PV Approved Capacity	1000 kVA (AC), 1300 kVA (DC)
Total Battery Approved Capacity	0 kVA (AC), 0 kVA (DC)
Total Synchronous Approved Capacity	0 kVA (AC)
Connection Point Power Factor	Unity
Maximum Export	1000 kW (AC)
Minimum Import	-
Nominal Voltage	230 V
Connection Date	10/11/2020
Site Contact Name	Joe Bloggs
Site Contact Mobile Phone Number	0412 34 56 78

In the first section, update:

- Engineering Report number and revision
- Commissioning Plan revision
- National Metering Identifier (NMI)
- Approved solar PV, battery and/or synchronous generation capacity
- Maximum export and minimum import limits
- Connection-point power factor and nominal voltage
- Connection date and site contact details

Ensure these details align with your approved Engineering Report.

3. Add your site Operating Philosophy



Operating Philosophy

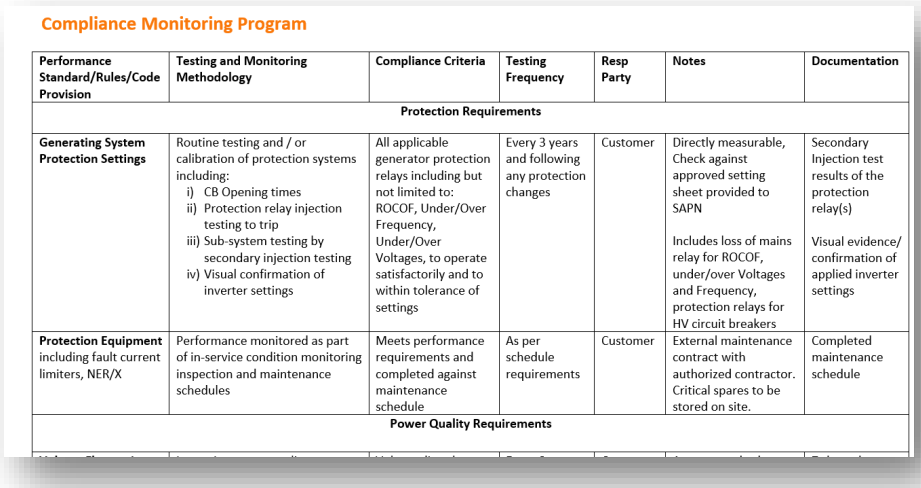
Customer to update this operating philosophy section capturing detailed descriptions such as:

- *Possible modes of operation and the most likely operating scenarios (e.g. combination of generating units online etc.)*
- *Description of different plant operating mode (main supply, backup, island etc.) and associated details on the following:*
  - *Changeover/switching procedures (e.g. live / dead)*
  - *Interlocking arrangement*
  - *Setting changes required*
  - *Any other relevant site-specific constraints / operating conditions e.g. non-export*

Provide a concise description of how your plant operates. This should be consistent with the approved Engineering Report and include:

- Possible operating modes and likely operating scenarios, such as which generating units may operate together
- Main supply, backup and island operating modes, where applicable
- Changeover and switching procedures, including live/dead switching arrangements
- Interlocking arrangements
- Any setting changes required between modes
- Site-specific operating constraints, such as non-export operation

4. Review the CMP compliance tables



Compliance Monitoring Program

Performance Standard/Rules/Code Provision	Testing and Monitoring Methodology	Compliance Criteria	Testing Frequency	Resp Party	Notes	Documentation
Protection Requirements						
Generating System Protection Settings	Routine testing and / or calibration of protection systems including: i) CB Opening times ii) Protection relay injection testing to trip iii) Sub-system testing by secondary injection testing iv) Visual confirmation of inverter settings	All applicable generator protection relays including but not limited to: ROCOF, Under/Over Frequency, Under/Over Voltages, to operate satisfactorily and to within tolerance of settings	Every 3 years and following any protection changes	Customer	Directly measurable, Check against approved setting sheet provided to SAPN Includes loss of mains relay for ROCOF, under/over Voltages and Frequency, protection relays for HV circuit breakers	Secondary Injection test results of the protection relay(s) Visual evidence/ confirmation of applied inverter settings
Protection Equipment including fault current limiters, NER/X	Performance monitored as part of in-service condition monitoring inspection and maintenance schedules	Meets performance requirements and completed against maintenance schedule	As per schedule requirements	Customer	External maintenance contract with authorized contractor. Critical spares to be stored on site.	Completed maintenance schedule
Power Quality Requirements						

The template provides a starting point for developing the CMP. Review and tailor the compliance tables to reflect the requirements applicable to the installation, as set out in the approved Engineering Report and other relevant connection documentation.

The template covers three main compliance areas:

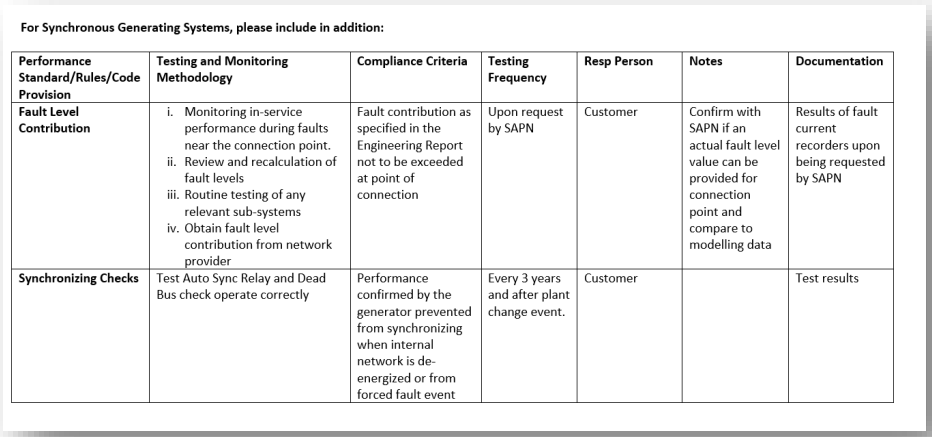
1. **Protection Requirements**
2. **Power Quality Requirements**
3. **Remote Monitoring and Control Requirements**

The template includes, for example:

- Routine protection testing and calibration, generally every three years and after protection changes
- Power quality monitoring for flicker, harmonics, voltage unbalance and steady-state voltage
- Testing of SCADA monitoring, setpoints, permissive signaling and communications fail-safe operation.

Some compliance testing may require SA Power Networks involvement, including power quality testing and remote monitoring, control and set-point tests. Where applicable, the CMP should identify SA Power Networks' role in supporting the testing and/or retaining the results.

5. Include synchronous generation requirements where applicable



For Synchronous Generating Systems, please include in addition:

Performance Standard/Rules/Code Provision	Testing and Monitoring Methodology	Compliance Criteria	Testing Frequency	Resp Person	Notes	Documentation
Fault Level Contribution	i. Monitoring in-service performance during faults near the connection point. ii. Review and recalculation of fault levels iii. Routine testing of any relevant sub-systems iv. Obtain fault level contribution from network provider	Fault contribution as specified in the Engineering Report not to be exceeded at point of connection	Upon request by SAPN	Customer	Confirm with SAPN if an actual fault level value can be provided for connection point and compare to modelling data	Results of fault current recorders upon being requested by SAPN
Synchronizing Checks	Test Auto Sync Relay and Dead Bus check operate correctly	Performance confirmed by the generator prevented from synchronizing when internal network is de-energized or from forced fault event	Every 3 years and after plant change event.	Customer		Test results

If your site does not include synchronous generating systems, remove the synchronous generation table or indicate that it is not applicable.

If your site includes **synchronous generating systems**, review the requirements in the table and retain those that apply to the installation. Remove or indicate N/A against requirements that do not apply. The applicable requirements should be consistent with the approved Engineering Report and other relevant documentation.

6. Keep the required evidence and records

Review the final **Documentation** column in each table carefully. It identifies the evidence and records associated with each compliance requirement and, where applicable, who is responsible for producing or retaining them.

Customers should retain the evidence and records they are responsible for, so they are available for future three-yearly compliance reviews. Depending on the requirements applicable to the installation, these may include:

- Protection relay test and secondary injection results
- Confirmation of inverter settings
- Visual evidence (photographs), including date and location information, where required
- Communications and permissive-signaling test results, where customer testing is required
- Maintenance records and completed schedules

Results from SA Power Networks-supported testing do not need to be separately retained or submitted by the customer where the CMP identifies that SA Power Networks will obtain, compile or retain results.

7. Submit the completed CMP

Please submit the completed CMP to SA Power Networks **before commissioning witnessing** of your generating system. SA Power Networks will review the CMP and advise if any changes are required. The CMP must be accepted by SA Power Networks before the connection can be formally closed out.

Need help?

If you have any questions while completing the CMP, please contact the **Project Manager assigned to your project**.