# Solar Analytics LGC compliance statement

December 2018

## Solar Smart Monitor Approved for LGC Creation

Solar Analytics has received advice from the Clean Energy Regulator (CER) that our Solar Smart Monitor satisfies the metering standards for the measurement of electricity generation and creation of Large-scale Generation Certificates (LGCs).

The CER determines the eligibility of LGCs created and registers eligible LGCs in the REC Registry. This eligibility includes the requirements for metering of the generated energy, with guidance provided on their website: CER metering guidance (a summary of these guidelines is provided at this end of this document).

On 16th Nov 2018, in response to a written request for clarification from Solar Analytics, advice from CER states that the Solar Analytic's Solar Smart Monitor meets these standards for the measurement of electricity flows less than 750MWh per annum (approximately 500kW depending on location, tilt and orientation of the solar system).

> *"Clean Energy Regulator considers that the meter meets the recommended standards for the measurement of TLEG, AUX and FSL under the general formula provided under Regulation 14 of the Renewable Energy (Electricity) Regulations 2001, and will provide measurements of a level of accuracy and quality that enables the CER to determine the eligibility of LGCs created on the basis of those measurements."*

The Solar Analytic's Solar Smart Monitor is also suitable for larger power stations where the solar system is located on a single site (and behind the same NEM meter), and consists of separate solar systems on different rooftops that each generate less than 750MWh pa. Each solar system must be separately measured by a Solar Analytic's Solar Smart Monitor. Refer to Diagram 1.

The CER stated that for solar systems greater that generate than 750MWh pa through a single meter, that an NMI pattern-approved meter is required. The Solar Analytics PPA meter solution is suitable for these larger scale applications, and can be installed by any qualified

electrician (does not need to be installed or managed by a Metering Co-ordinator or Meter Data Provider).

Hence, subject to the CER approving the registration of the specific solar power station, the Solar Analytic's Solar Smart Monitor may be used to measure electricity generation and the creation of LGCs.
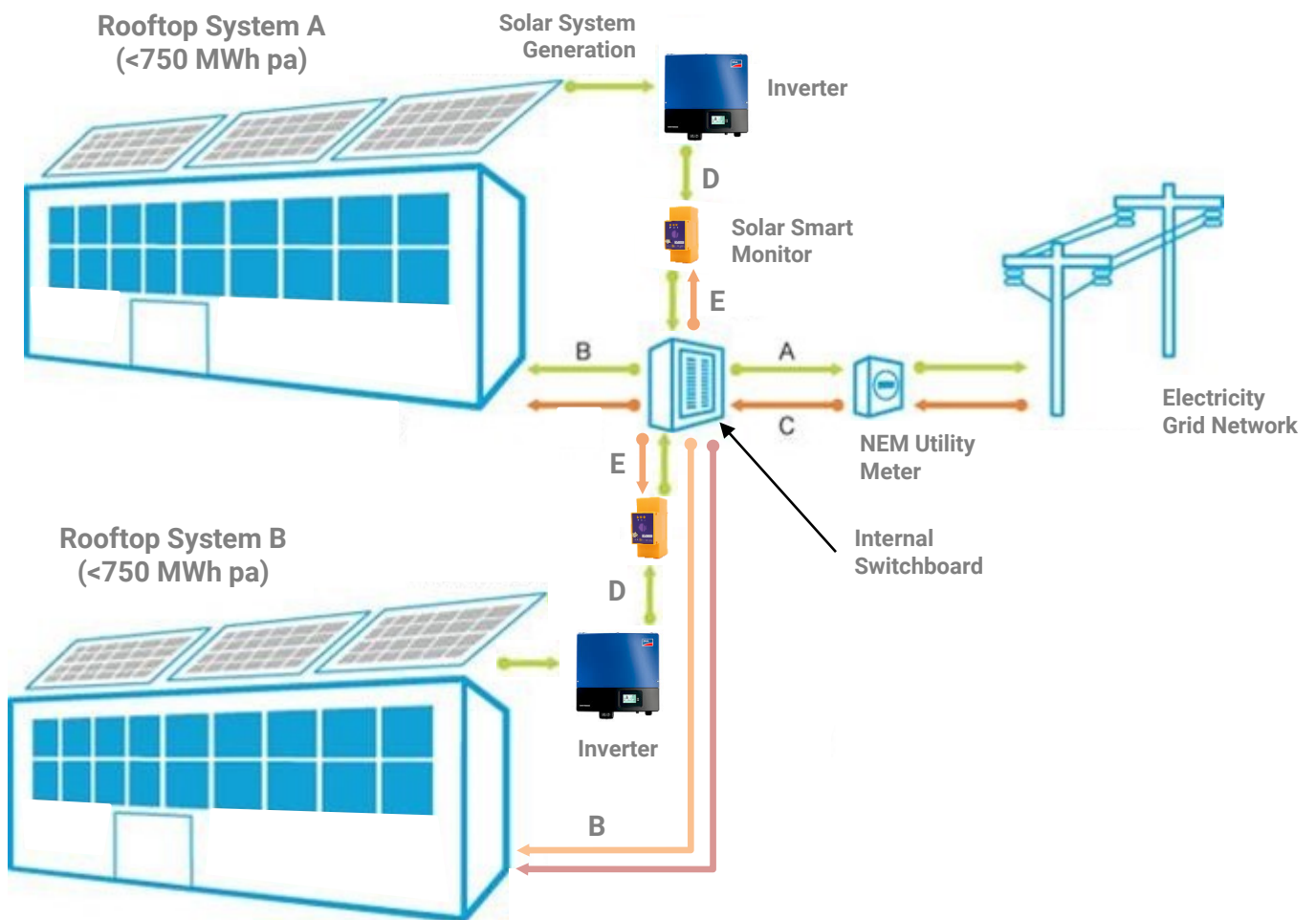


Diagram 1: Solar power station energy flows. Solar Smart Monitor measures total solar electricity generation (less any AUX consumption). A = net energy exported via NEM connected utility meter. B = solar energy consumed on site. C = energy imported from the grid.  D = energy production from rooftop power station, E = energy consumed by solar power station.

The CER metering guidelines require the following:
- Have either a visible or an equivalently accessible display of the cumulative total energy measured by that meter.
- Be accurate in accordance with the requirements in Schedule 7.4 of Chapter 7 of the National Electricity Rules (NER), in particular Table S7.4.3 (accuracy requirements for metering installations).
- Be secure and that associated links, circuits and information storage and processing systems are protected by appropriate security mechanisms.
- Meet relevant Australian Standards and international standards identified in the NER.
- Have electronic data transfer facilities to enable transmission of energy data to a third party.
- Include a communications interface to enable remote acquisition of energy data.
- Record energy data in a manner that collates the amount of active energy and reactive energy (where relevant), in intervals equal to at least every 30 minutes
- Be capable of separately recording energy data for energy flows in each direction where bi-directional active energy flows occur or could occur.
- Has a measurement element for active energy and if required, reactive energy, with both measurements to be recorded
- Include facilities for storing interval energy data for a period of at least 35 days.

## About Solar Analytics

Solar Analytics is a ground-breaking solar home energy management company that provides solar owners with compelling insights to increase the value of their solar power system. Founded in 2013 by a team of world-leading solar experts, Solar Analytics has developed a cloud-based data and analytics platform for residential and commercial solar systems. Using patented algorithms and machine learning, Solar Analytics' software analyses energy generation, local weather and on-site energy consumption to provide real-time alerts and engaging insights for solar partners and households. More information at solaranalytics.com.

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