

Renewable power generation

Application: buildings from 100 to 2,000 square meters

Boost your “green” image and save with photovoltaic energy

“ Our company is known for environmental awareness and advanced technology. We’d like to build on that image and cut energy costs. Given our available rooftop space, solar panels seem like a the natural choice. ”

Generate your own electricity with rooftop photovoltaic modules

This solution is designed for three-phase electricity production. The photovoltaic modules are connected to the grid so you can sell surplus electricity back to the utility—usually at attractive rates—and all of the necessary devices and protective equipment are housed out of sight in a facilities room.

Schneider Electric provides:

- Pre-wired, referenced junction boxes for connection to the photovoltaic generator’s DC output
- Pre-wired, referenced DC disconnection boxes
- Dedicated DC/AC inverters synchronized with the utility grid
- AC protection for connection to the grid

An iRio remote terminal unit monitors and transmits information and tracks electricity production records. It can also be used for display and customer demonstrations, to show in real time the photovoltaic production.

Solution

Benefits

For the user

> Up to 20% savings

- With incentives and buy-back schemes, solar energy can offset your electricity bill by up to 20%
- ROI is less than 10 years, and often far less (6 to 8 years)

> A smaller environmental footprint

- Each kWh produced shaves an average of 0.476 kg off your building’s carbon footprint (average value in Europe)

> A greener image

- The system gives you the data you need to demonstrate your commitment to the environment

For professionals

+ Design

- Free, easy-to-use SunEzy Design software

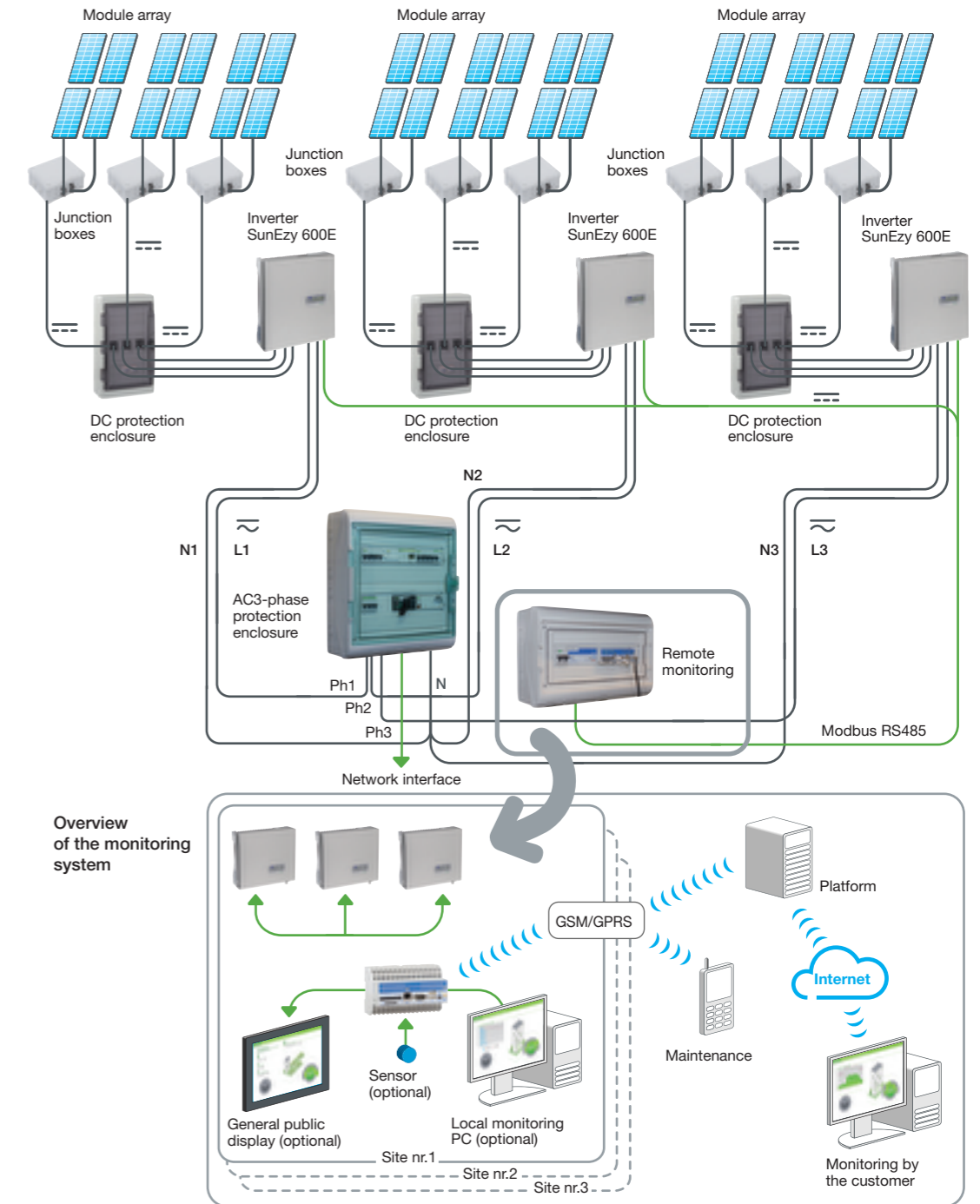
+ Installation

- Junction boxes and DC disconnection boxes pre-wired according to local standards and rules
- Limited part numbers for easy selection and ordering

+ Maintenance

- SunEzy inverter display for easy testing
- Included SunEzy Control software for inverter testing from your PC
- DIN-rail-mounted iRio RTU transmits all information and monitors building PV production

- Measure
- Reduce energy consumption
- Reduce energy costs



SunEzy DC/AC inverter from 2kWp to 5.4kWp

- Compact
- Transformerless for high efficiency (94.5%)
- High Maximum Power Point Tracker (MPPT) efficiency
- 600E performs at 750V/8.5A, with 3 MPPTs

iRio RTU modular communication system

- IP65 pre-wired disconnection enclosures meet local standards and rules
- AC protection enclosures available pre-wired or on-demand
- Integrated web server sends information by GSM, GPRS, Ethernet, or RS485
- Optional additional cards for external inputs and outputs

SunEzy Design software

- Includes database of photovoltaic modules and SunEzy inverters
- Recommends optimal PV generator architecture
- Generates production forecasts depending on location
- Computes cable losses