



# Benefit from two energy sources

## eMobility solution to charge EVs with local Solar production

"I want to offer my customers a solution that enables them to charge EVs with their local energy production".

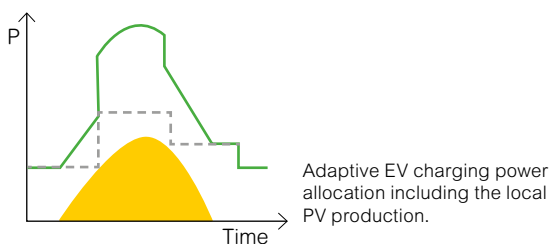
Schneider Electric provides an end-to-end solution for buildings that optimizes the EV charging capability without disrupting the power supply. This is achieved through an EV load management system that integrates local PV production\* into the total available energy.

### EcoStruxure™ EV Charging Expert

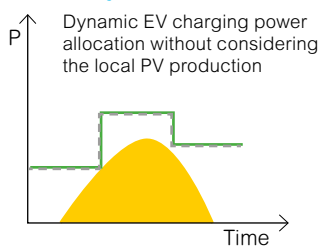
EV Load Management System: key features

- Solar production combined with utility or only allocated to the EV infrastructure
- Dynamic distribution of available power among the chargers
- On-peak/off-peak hours EV charging management
- Monitoring and control of loads based on open protocol (OCPP 1.6-J)
- A user friendly interface to set-up the PV features

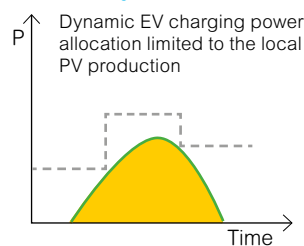
### Combining grid and solar energy



### Grid only



### Solar only



- Charging power allocated to the EV
- On-site solar production
- - - Power requested by the EV fleet

### Schneider Electric Energy Meters

For solar application 2 meters are needed to monitor the PV production and the building's consumption.



For instance, PowerLogic PM5320

- Ethernet Port with protocol MODBUS TCP
- 1P + N / 3P / 3P + N
- Identify energy savings opportunities with precision accuracy of Class 0.5S

### Schneider Electric charging stations

Our AC and DC ranges offer power rates from 22 kW to 320 kW according to the EV drivers' convenience



EV charging stations

### EVlink Pro AC:

- EVlink Pro AC is a flexible solution easy to install, operate, monitor, and maintain through digital capabilities.

### DC fast charging:

- EV fast charging stations are designed to maximize energy efficiency and uptime.

\* The solution is open to 3rd party PV inverter.

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# eMobility solution to charge EVs with local Solar production



## For Building Managers:

- Cost saving solution
- Adapted for brownfield or greenfield infrastructure
- Comply with new energy regulation
- Attract EV drivers with sustainable energy production



## For Contractors:

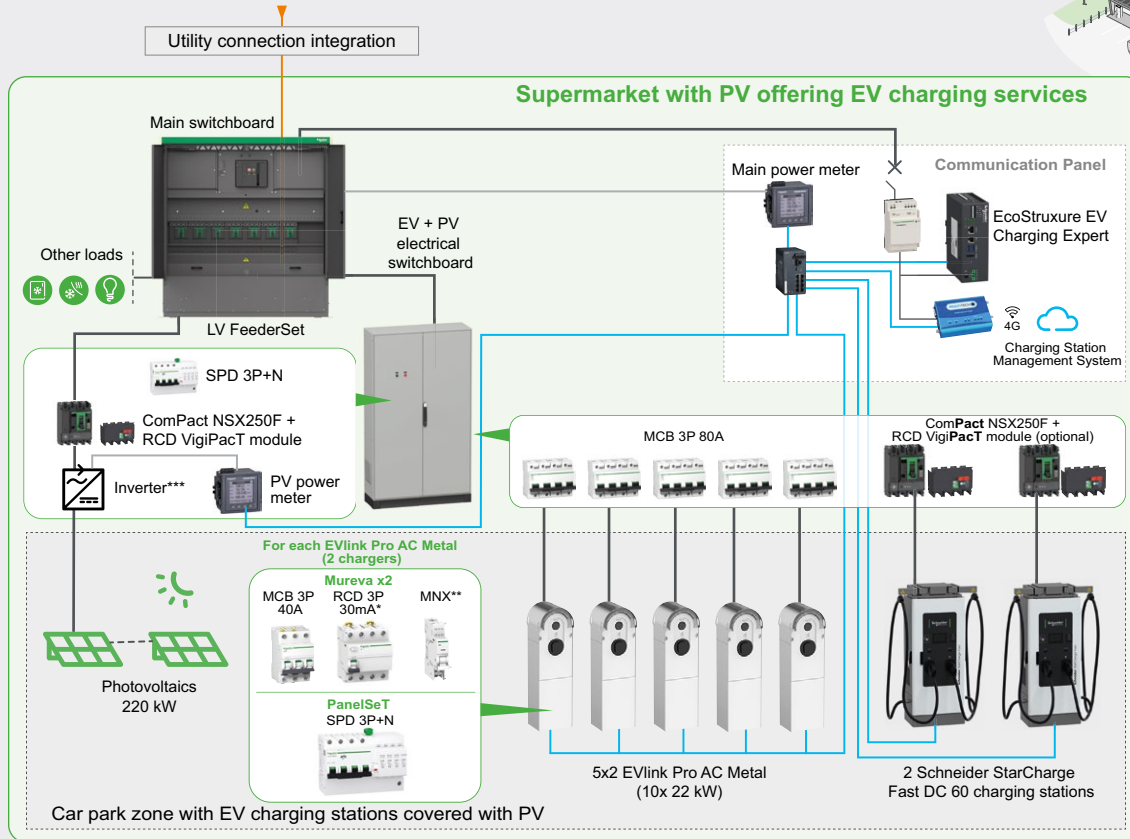
- Electrical or system integrators
- Easy and fast PV usage settings for EV charging
- Open and scalable solution



## For Charge Point Operators:

- Save money thanks to an optimized on-site consumption
- Decrease CO<sub>2</sub> emission for EV charging
- Easy integration into Charging Point Operator management system

## Local solar production integrated into an EV architecture



— Power network  
— 24 VDC

— Ethernet network  
— CT for power metering

\* Type B is for charging station without built-in 6 mA DC differential protection, and Type A is sufficient with built-in 6 mA DC differential protection.  
 \*\* iMNx is only for charging station without built-in iMNx, it isn't needed if an iMNx is installed into the charging station.  
 \*\*\* MCCB given as an example. May change according to the number of inverters and their power.

## Key Products

| End-to-End Schneider Electric Solution |  |
|--|--|
| Charging Station                       | Description  |
| EVlink Pro AC in Metal Kit             | EVlink Pro AC charging stations from 7.4 to 22 kW with metal kit available for 1 or 2 charging stations      |
| Schneider StarCharge Fast DC 60        | New DC fast charging range with/without cable management system and with/without embedded credit card reader |
| Load Management System                 |  |
| EcoStruxure EV Charging Expert         | EV Load Management System up to 250 chargers per license: HMIBX1A0NEVB100SCP                                 |
| Power Distribution                     |  |
| KPX - Prefabricated Substation         | LV FeederSet cabinet, Liquid Filled Transformer and up to 24 kV RM AirSeT switchgear                         |
| Power Meters                           | PowerLogic PM5320 or other compatible models   |

> For detailed information refer to the eMobility catalog

[www.se.com/emobilitysolutions](http://www.se.com/emobilitysolutions)

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