

OPTIMIZING A TERTIARY SITE'S ENERGY SUPPLY

OUR SOLUTION FOR SAFE RENEWABLE ENERGY AT THE BEST PRICE



Encouraged by the reduction in the cost of generating intermittent renewable energy and the need to make the transition to cleaner energy, increasing numbers of tertiary sites want to use locally produced renewable electricity.

However, the times when renewable energy – especially solar power – is generated do not always tally with its periods of use. Installing and managing storage systems addresses this issue by storing and releasing renewable energy at the right time to consume as much as possible locally.

This solution also provides additional benefits: it minimizes energy bills by limiting the power drawn from the grid and optimizing tariffs and, thanks to the availability of an additional local power source, it guarantees an electricity supply even in the event of a power cut.

SMARTER PRODUCTION AT ALL TIMES

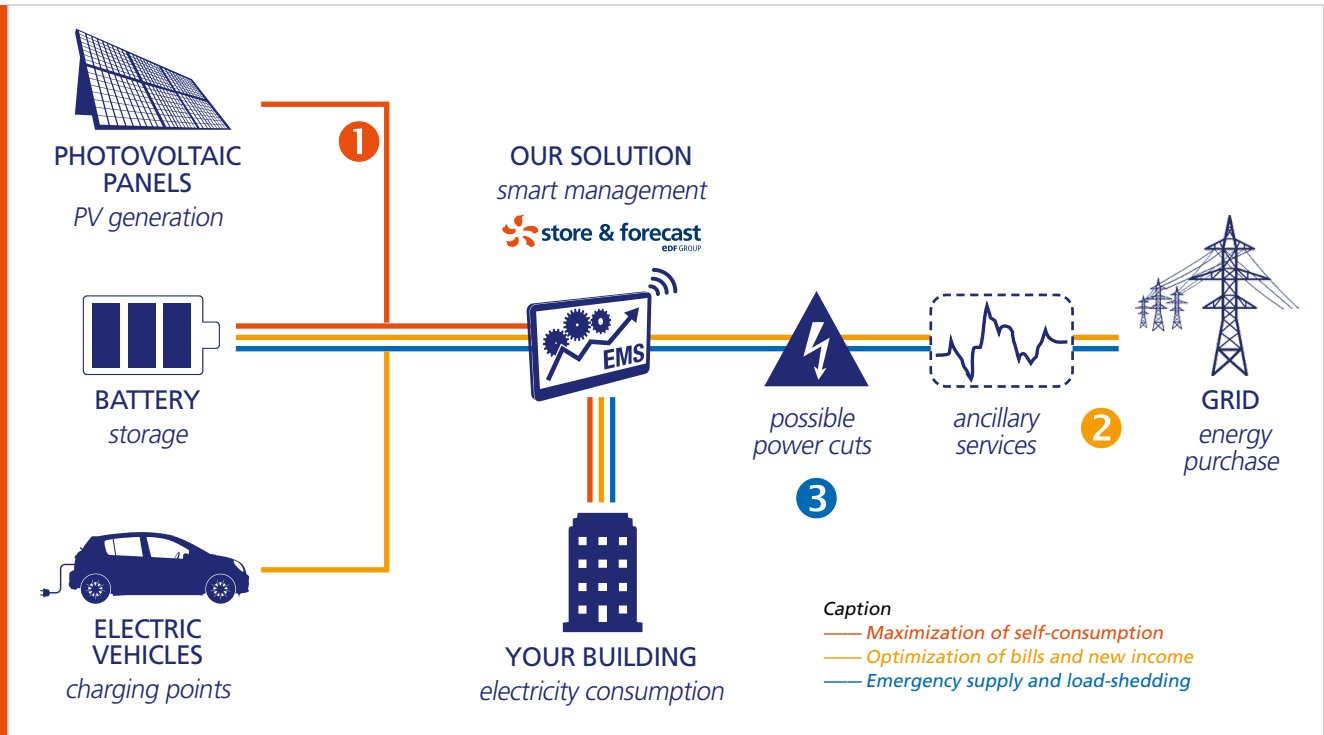
Our energy management software autonomously manages the site's flexibility of use, optimal generation of renewable energy and employment of storage facilities, 24 hours a day, 7 days a week.

- Maximizes self-consumption of renewables
- Optimizes energy bills and generates new income
- And ensures electricity is available in the event of a power cut

Software features

- Renewable energy forecasting
- Management of the intermittence of renewable energy generation
- Consumption forecasting
- Peak shaving
- Tariff optimization
- Load management
- Ancillary services
- Emergency supply

HOW TERTIARY SITES ARE MANAGED



1 On a tertiary site that uses both photovoltaic electricity generated in situ and electricity from the grid, smart management linked to a battery coordinates renewable power generation with consumption, thereby **maximizing self-consumption**.

2 Managing the power required to run a building and charge electric vehicles, as well as managing the amount of power drawn from the grid during periods when

tariffs are high or low, **minimizes the cost of buying electricity**. Batteries also facilitate the supply of new services to the power system, such as frequency control and capacity markets, **generating new income**.

3 Management **guarantees an emergency supply** in the event of a power cut by shedding certain loads and using storage to meet the use of critical loads at all times.

CREDENTIALS

SAN DIEGO ZOO



Storage: Li-Ion battery (1 MW–4 MWh)

Localition: United States, California

Commissioning: November 2019

BIOT



Generation: Photovoltaic (70 kWp)

Stockage : Li-Ion battery (100 kW–100 kWh)

Load management: Charging station for electric vehicles

Location: France, PACA

Commissioning: July 2019

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