

**CIRTEM<sup>+</sup>**  
POWER OPTIMISED

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# Electrical Infrastructures

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GCE and DLE | November 2018





# Electrical Infrastructures



## HOME ESS + UPS 6kVA/15kWH

Location : Britain - Quebec - Africa

Inverters : BAT001 - 50 pcs

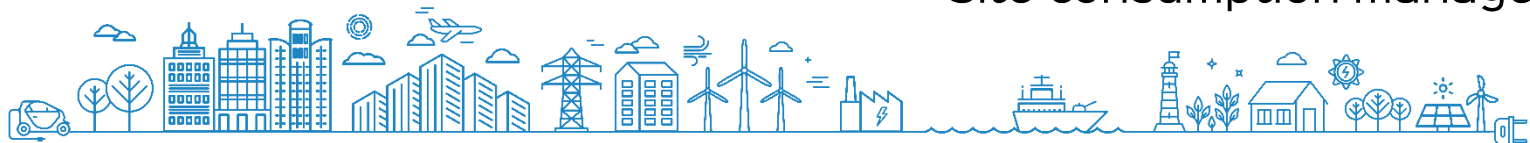
Coupling : PV with DC coupling

Battery : LMP BlueSolution 150 to 220V

Mains : 230V 50Hz

### Missions :

- UPS with lithium battery
- Solar self-consumption
- Site consumption management





## ESS 1,2MVA/1,5MWH

Location : SCLE – Toulouse,  
France

Inverters : Smart AC – 3 cabinets  
400kVA

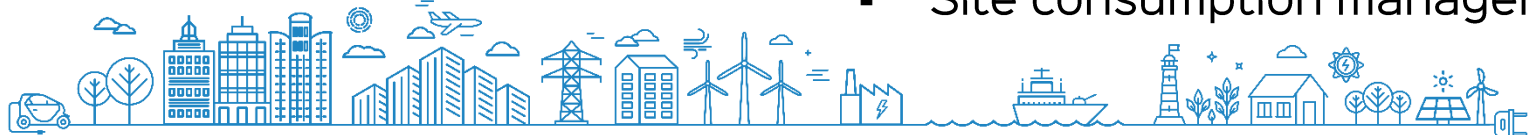
Coupling : No

Battery : 650 to 820V

Mains : High Voltage 20kV with  
transformer

Missions :

- Grid regulation
- Site consumption management



## ESS 2, 4 MVA / 4,5 MWH



Location : Alata – Corsica (France)

Inverters : Smart AC – 6 cabinets  
400kVA

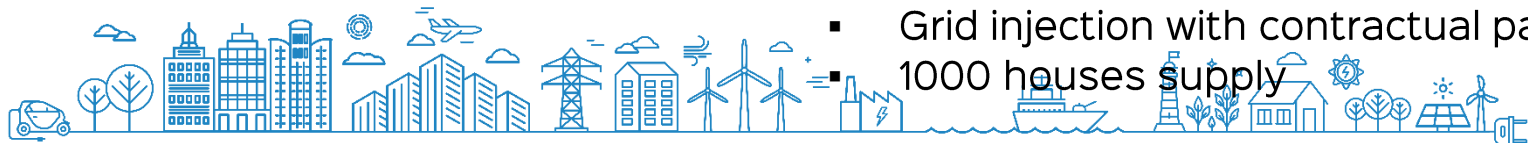
Coupling : with 3<sup>rd</sup> party inverters

Battery : 710 to 880 V

Grid : High Voltage 20 kV with  
transformer

Missions :

- Renewable energies smoothing
- Grid injection with contractual pattern
- 1000 houses supply





## SMART GRID ON DC BUS

Location : SCLE – Toulouse, France

### Converters :

- Smart AC TL 125kVA (97,7%)
- DC-DC for Battery LG 33kW (99,4%)
- DC-DC for PV with MPPT 33kW (99,4%)
- Drives for Flywheel 10kW (99%)

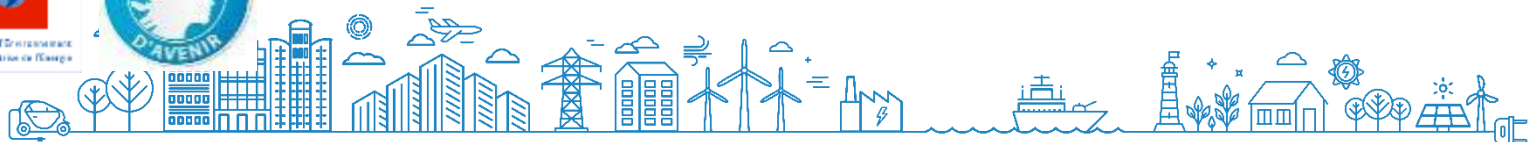
Coupling : DC bus 650V

Mains : 400 Vac without transformer to the grid

### Missions :

- ☾ Renewable energies smoothing
- ☾ Grid injection with contractual pattern

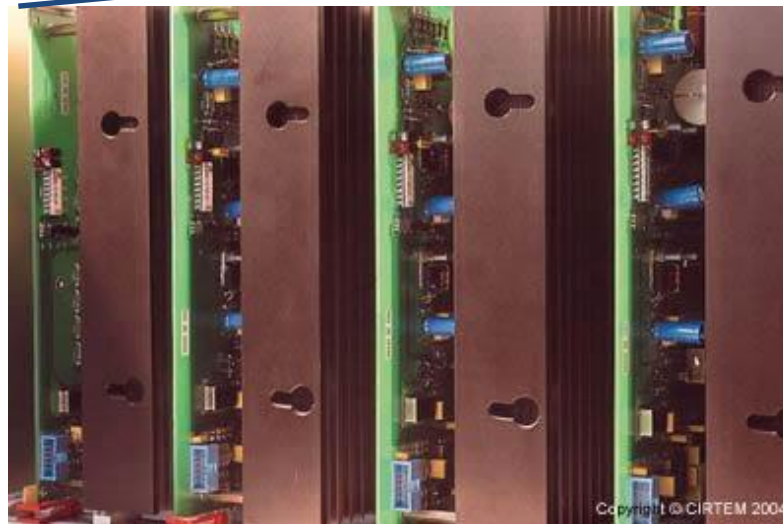
WEB : <http://www.smartgrids-cre.fr/index.php?p=smart-zae>





# Price Signal Generator

- Price signal generator for EdF
- 63 kVA three-phase inverter 24-hour power-on
- Customer : SCLE SFE (GdF-Suez group)
- 400 generators produced since 1998





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