Zero carbon campus

University of Lille & Eaton

Project design

Eaton’s xStorage Building allows the Catholic University of Lille to maximize the consumption of on-site renewable energy generation. The system gives the University the ability to optimize their consumption on campus, storing energy when it is cheap and then putting it to use during peak periods or to charge electric vehicles from the campus fleets.

Results of the integrated approach

The storage and optimization of on-site generated renewables frees the campus from the peak grid price and delivers power directly to uses on site, saving any transmission loss or need to wait for grid integration of new assets.

“Flexible technology that incorporates renewable production with energy storage, such as Eaton’s system, are vital for us to achieve our zero carbon targets at the University of Lille and beyond that for the nation.” - Gregory Vangreveninge – Technical Manager for Yncréa Hauts de-France which is a member institution of the program.

Key facts

- 25 new battery packs with a capacity of 10 kWh each
- Digital control & optimization of stored energy
- PV installation powers 3 EV charging stations
- Capacity of 250 kWh
- Enables to store energy from the 1400 m2 photovoltaic panels
- 174kg of carbon saved across the first winter and spring

Project archetype

Campus/Office decarbonization

Image credit Eaton

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