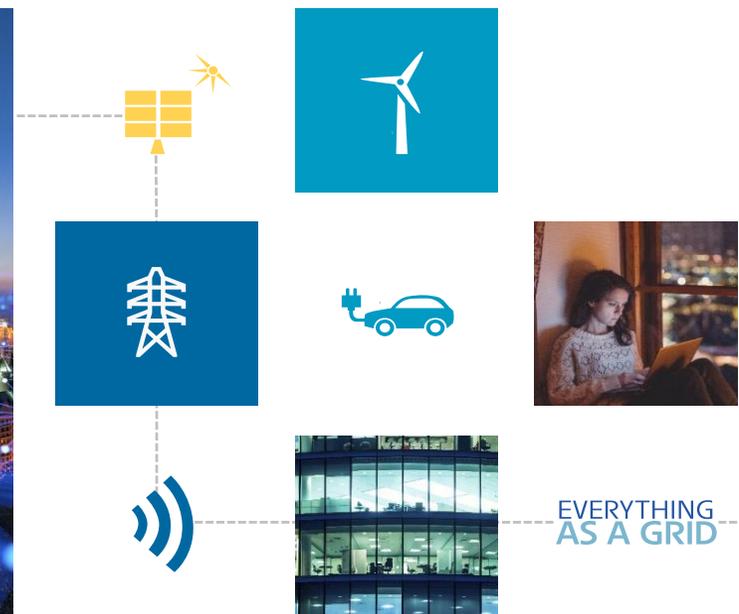


Journée Stockage de l'électricité conférences et visites

10 mai 2022

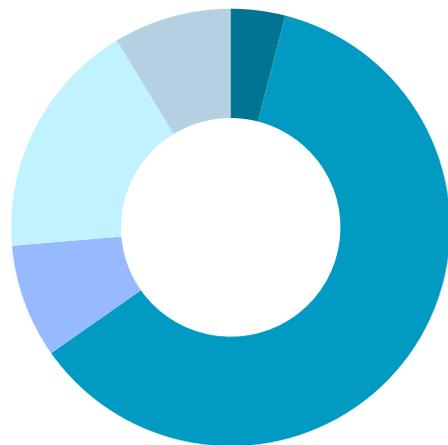
We make the
 energy
 transition work.*



Eaton en France

21 Sites

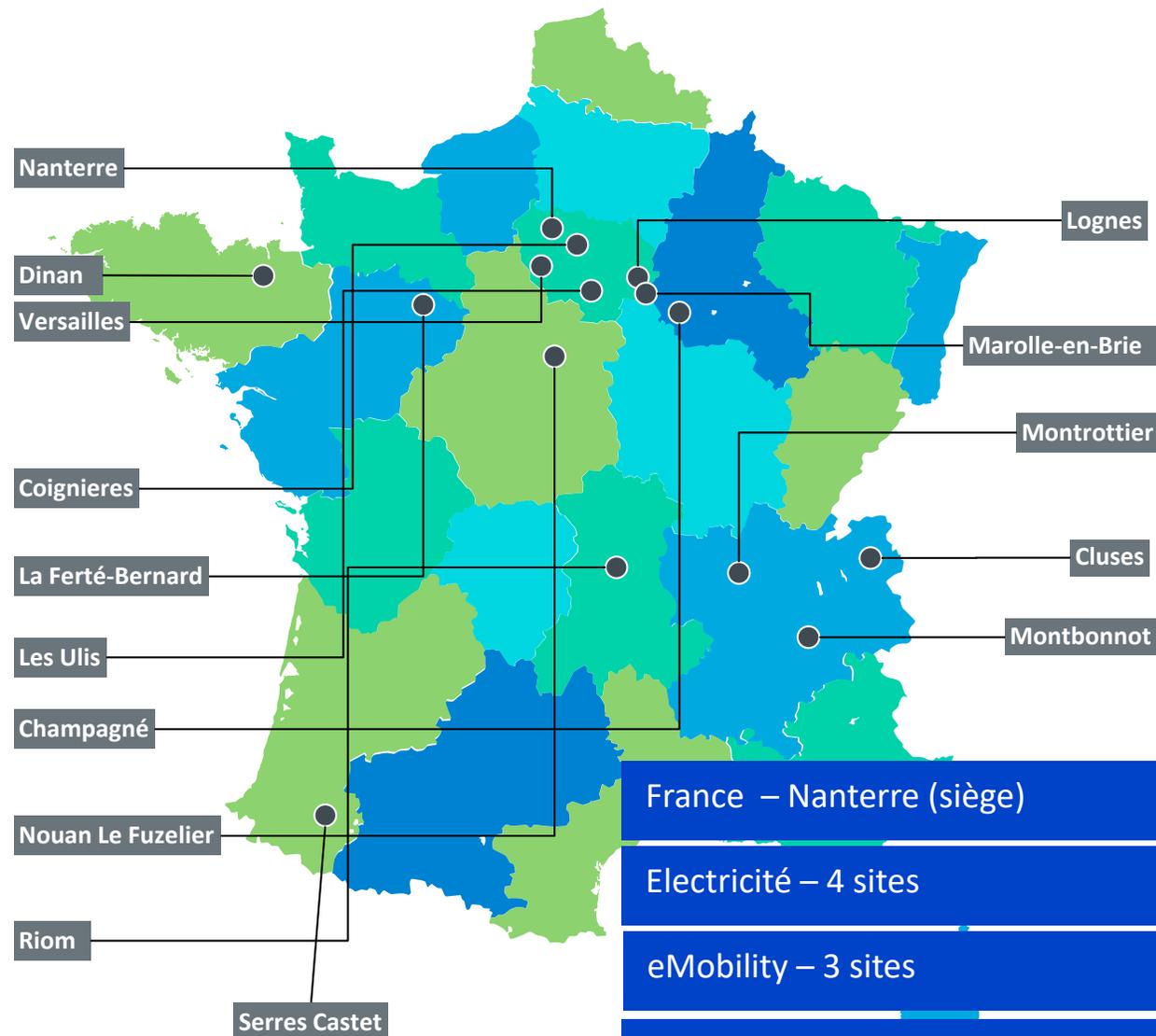
Ventes, R&D
 production et
 logistique



2,459

Employés

- Corporate
- Electrical
- Vehicle
- Aerospace



France – Nanterre (siège)

Electricité – 4 sites

eMobility – 3 sites

Aéronautique – 6 sites



Montbonnot (Isère)
R&D onduleurs monophasés

Eaton Industrie France



Riom (Puy-de-Dôme)
R&D et Production Eclairage de sécurité, Alarme incendie, Alarme intrusion

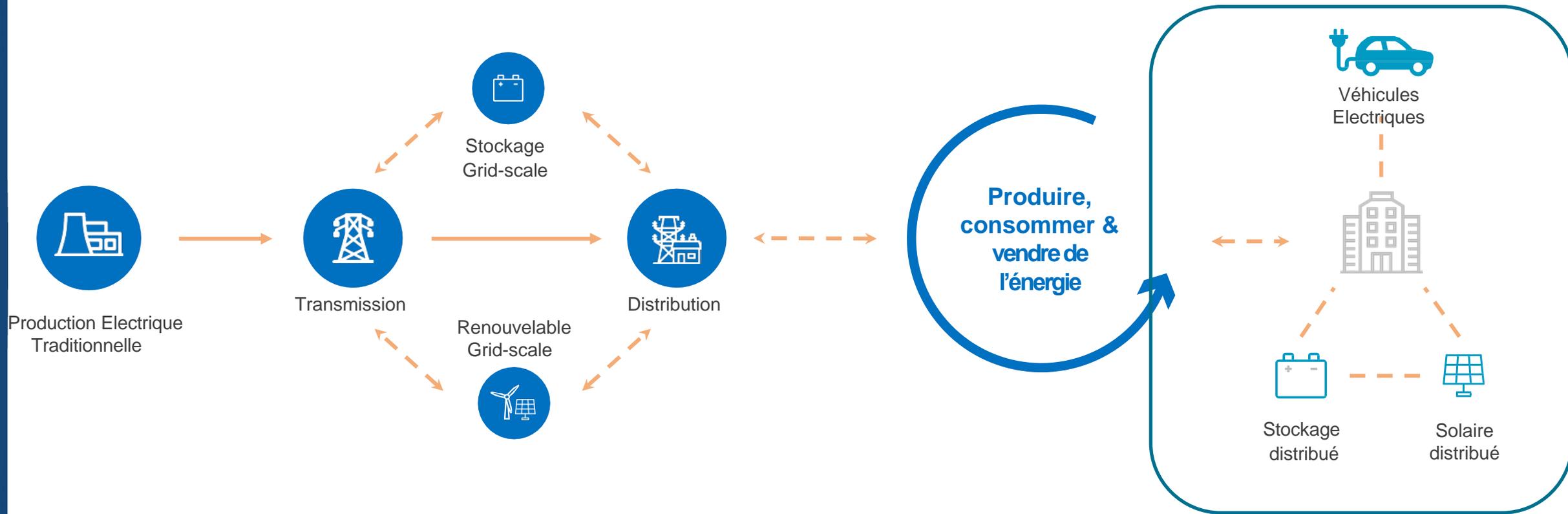


Nouan-Le Fusellier (Loir-et-Cher)
R&D et Production Presses étoupes et boîtes



Montrottier (Rhône)
R&D et Production Alimentations électriques et des systèmes de conversion d'énergie électrique

La transition énergétique transforme la chaîne de valeur du système électrique, nous entrons dans l'air du "TOUT EN RESEAU"



Stockage et infrastructures spécialisées



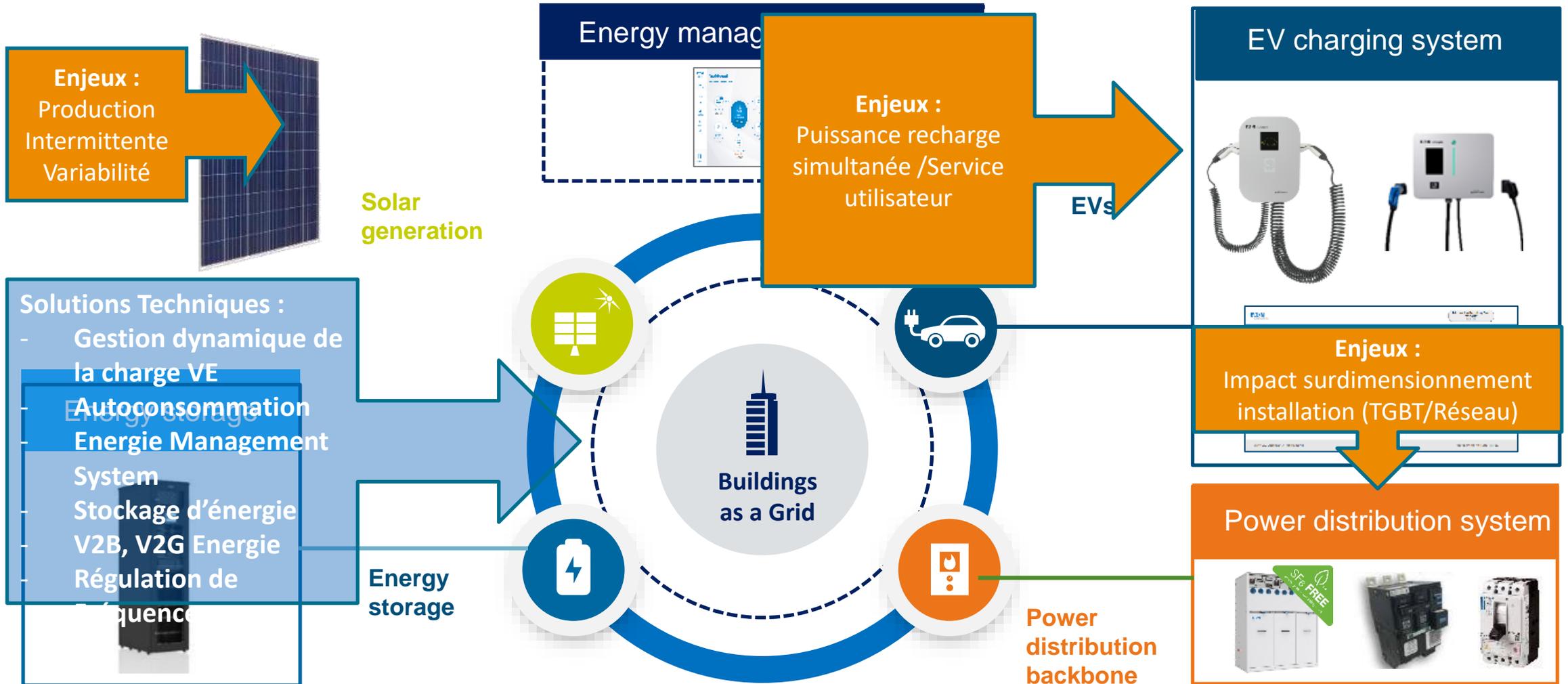
Infrastructures traditionnelles



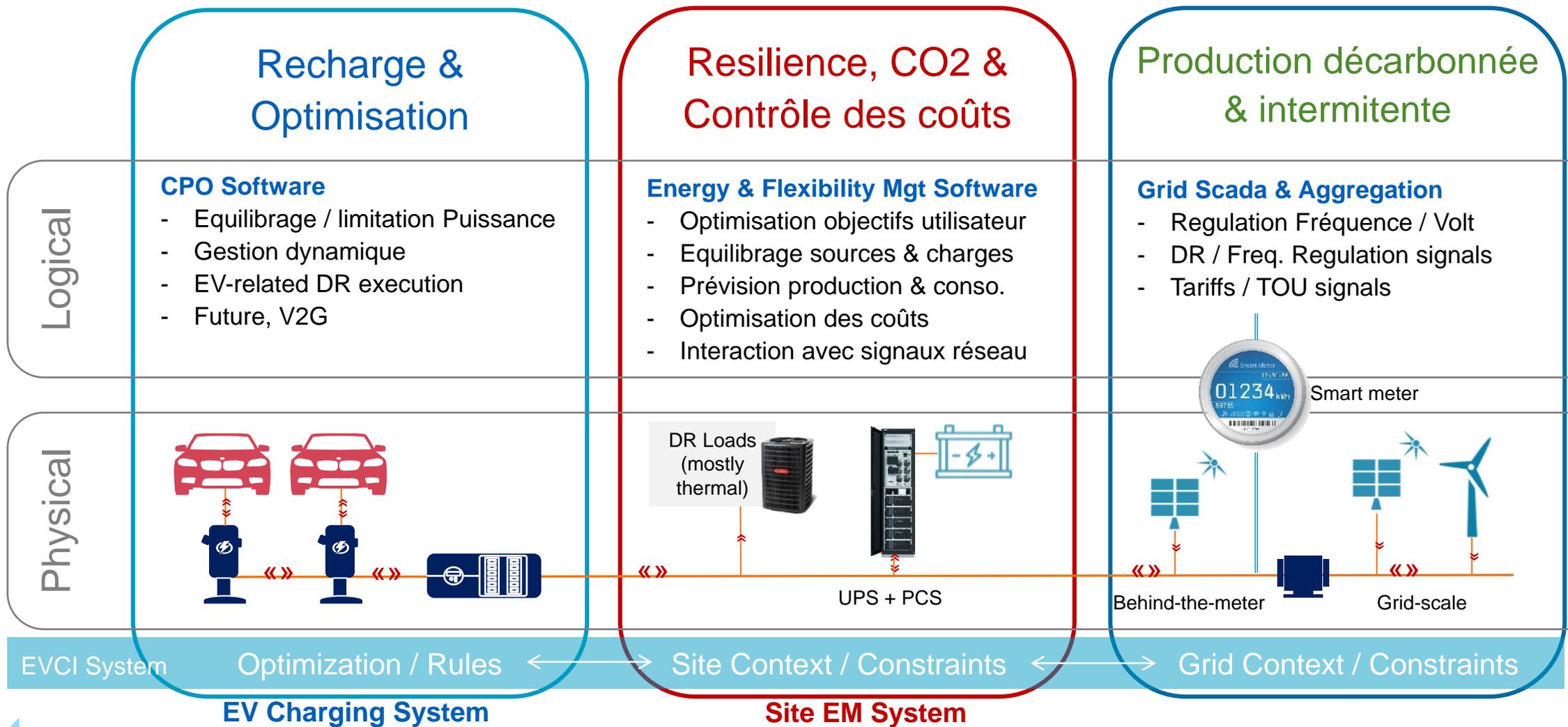
Services d'optimisation (logiciel)

Buildings as a Grid – Portefeuille produit

L'écosystème building as a Grid



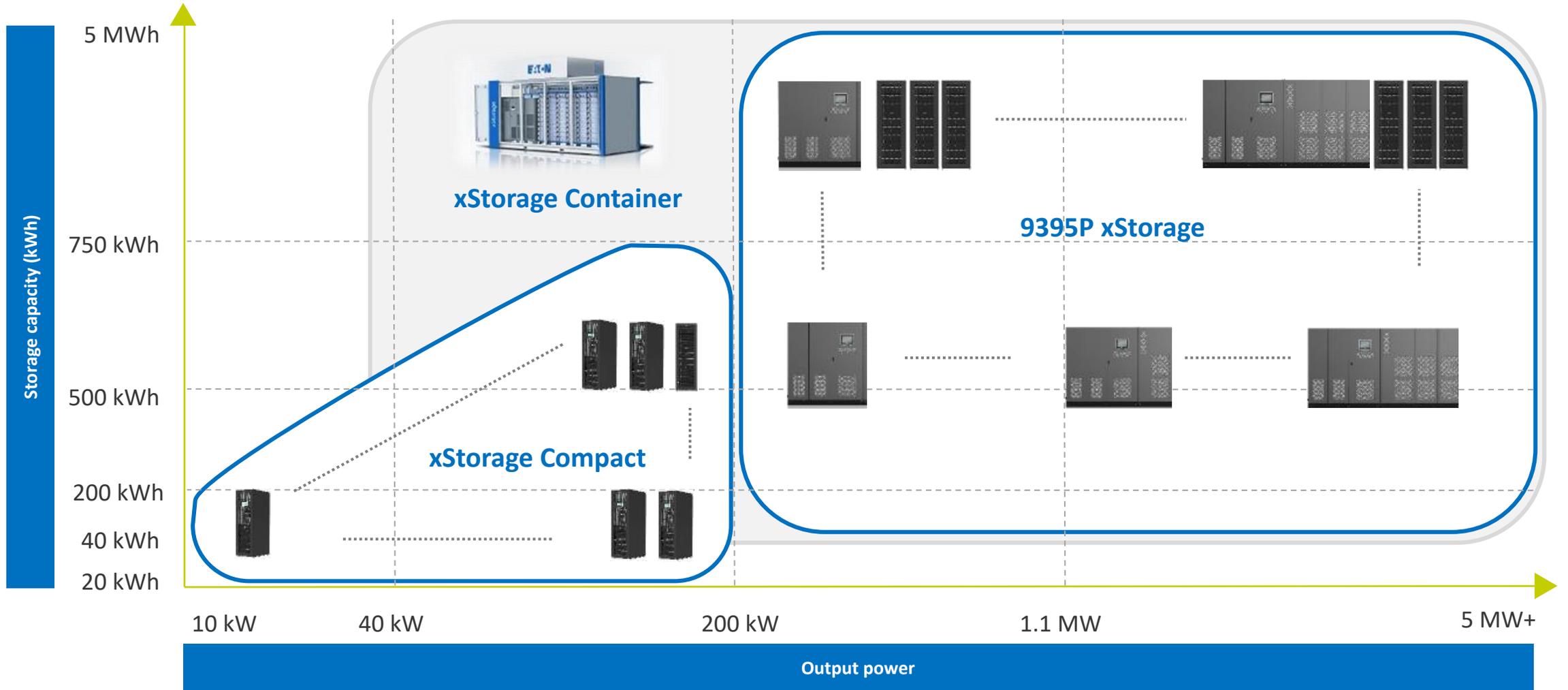
Transition énergétique et convergence PV e-mobilité, Les enjeux de l'intégration système



Energy Transition

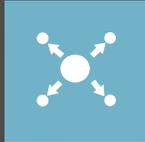
Gammes xStorage pour applications tertiaires et industrielles

Modulaires et évolutives



xStorage Compact

Avantages produit



Système multi-fonctions : autoncommation ENR, effacement de pics, déplacement de charges, secours, integration d'IRVE, support au réseau



Modulaire, évolutif et adaptable



Haut rendement, pertes réduites



Fiable et sûr avec système de supervision intégré et Management Batteries avancé par pack



Un fournisseur unique d'une solution intégrée

EATON

Powering Business Worldwide



Les bénéfices de l'écosystème Eaton

Intégration PV / stockage / IRVE / système de gestion

Combinaison PV & Stockage

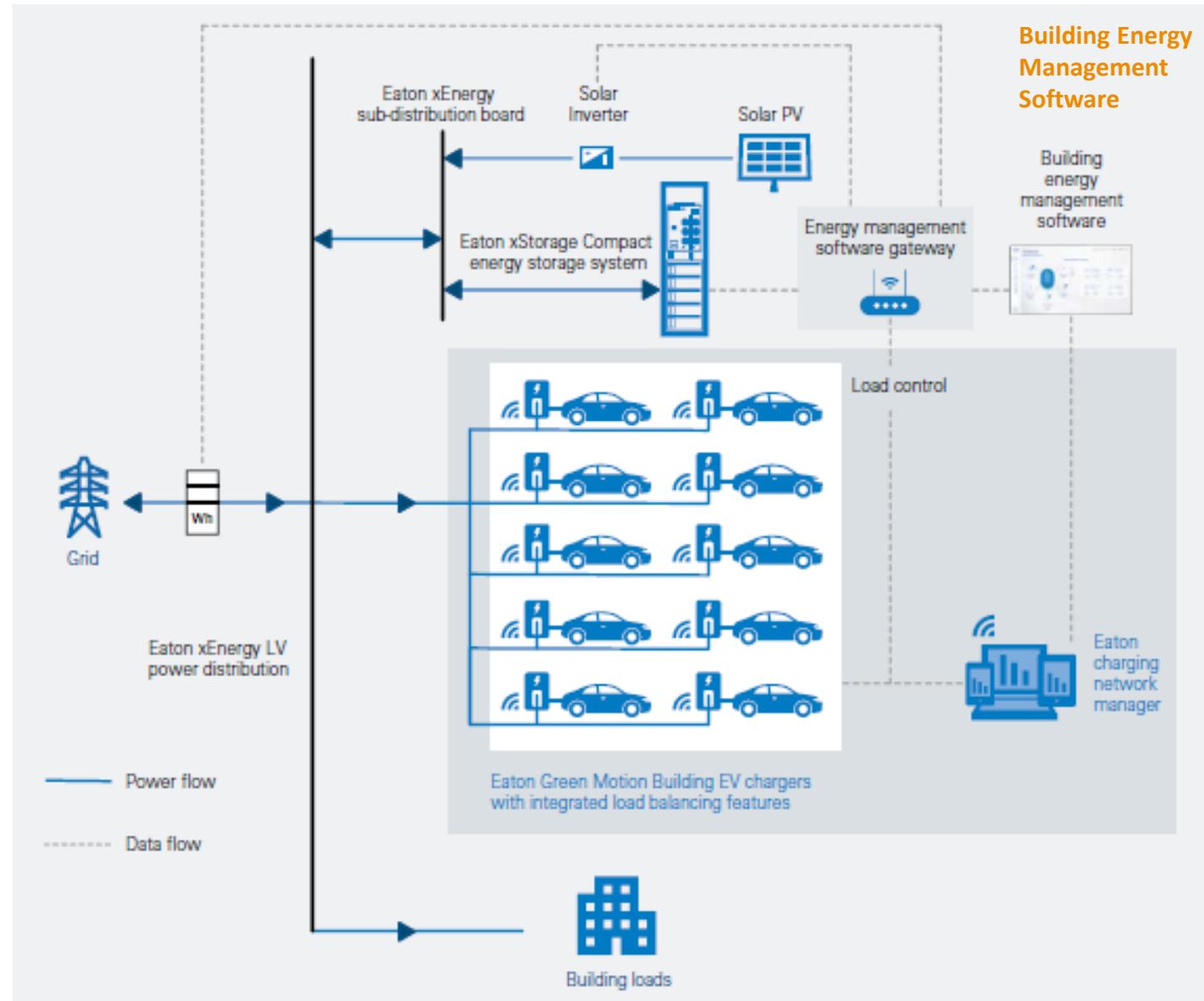
- Optimiser l'autoproduction (jusqu'à 500kWc)
- Réduire les coûts de raccordement réseau en cas de renforcement nécessaire (puissance IRVE)
- Disposer d'une source d'énergie de Secours

Gestion intelligente de la recharge

- Equilibrage dynamique de la puissance avec des solutions de recharge intelligente (dynamic load balancing)

Building Energy Management System

- Optimisation globale du site (IA, prévision de la production, de la consommation)



Projet GEPY (Vallée de Chevreuse)

Borne de recharge pour véhicule électrique "La Poste"

ENGIE BLUE DAY - BOOSTING INNOVATION

DTI Help us to boost our project to provide innovative Electric Vehicles charging station with local renewable production and energy storage for the French Poste

EATON has partnered with ENGIE to provide La Poste with innovative EV charging station integrating PV production, energy storage and local power management to match operational needs and sustainable objective of LA POSTE

About our Blue Project
 La Poste is a leading French company in the mail, parcel and express delivery sector. It is a public company with a strong commitment to sustainable development and innovation. The company is looking for innovative solutions to improve its energy efficiency and reduce its carbon footprint. The company is also looking for innovative solutions to improve its operational efficiency and reduce its costs. The company is also looking for innovative solutions to improve its customer service and reduce its delivery times. The company is also looking for innovative solutions to improve its security and reduce its risks. The company is also looking for innovative solutions to improve its reputation and reduce its negative impact on the environment. The company is also looking for innovative solutions to improve its financial performance and reduce its debt. The company is also looking for innovative solutions to improve its human resources and reduce its turnover. The company is also looking for innovative solutions to improve its information systems and reduce its IT costs. The company is also looking for innovative solutions to improve its legal and regulatory compliance and reduce its fines. The company is also looking for innovative solutions to improve its risk management and reduce its losses. The company is also looking for innovative solutions to improve its overall performance and reduce its negative impact on the environment.

Support we welcome from you to boost our Blue Project
 We are looking for innovative solutions to improve our energy efficiency and reduce our carbon footprint. We are also looking for innovative solutions to improve our operational efficiency and reduce our costs. We are also looking for innovative solutions to improve our customer service and reduce our delivery times. We are also looking for innovative solutions to improve our security and reduce our risks. We are also looking for innovative solutions to improve our reputation and reduce our negative impact on the environment. We are also looking for innovative solutions to improve our financial performance and reduce our debt. We are also looking for innovative solutions to improve our human resources and reduce our turnover. We are also looking for innovative solutions to improve our information systems and reduce our IT costs. We are also looking for innovative solutions to improve our legal and regulatory compliance and reduce our fines. We are also looking for innovative solutions to improve our risk management and reduce our losses. We are also looking for innovative solutions to improve our overall performance and reduce our negative impact on the environment.

We are a Blue Team!

 JEAN-MICHEL DIEUDONNÉ Vice President, Electrical Service Key Strategic Account & France Area EATON	 FABRICE BOUDIER Head of Energy Storage EMEA EATON	 CEDRIC CALANOFF Group Category Manager EATON	 EMMANUEL SCHILLINGER Representative ENGIE
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Le Projet "La Poste" primé lors de la journée "Blue projects 2019 Engie" (1e Prix catégorie "Client Solutions", 3e Prix toutes catégories sur 120 projets)



Engie & Eaton accompagne Le Groupe La Poste sur un projet pilote de station de recharge de véhicules électriques :

- 1 xStorage Home 4,2kWh – 2 bornes de recharge – 25m2 de PV
- 1ere flotte de VE en France 25 000 tournées électriques par jours

Syndicat d'Énergie Alpes de Hautes Provenances – SDE04

Station de Recharge Solaire & Smart Building

Objectifs du projet:

- **Démontrer la technologie Smart Building en combinant la production d'énergie solaire, la recharge de Véhicules Electriques au Bâtiment intelligent avec stockages électrique et thermique pour la climatisation.**

Données principales :

- Recharge VE : 2 x 22 kW AC
- Champs PV : 15 kWc
- Stockage d'énergie : 40kW/50kWh
- Stockage thermique (eau glacée) : 2000 L

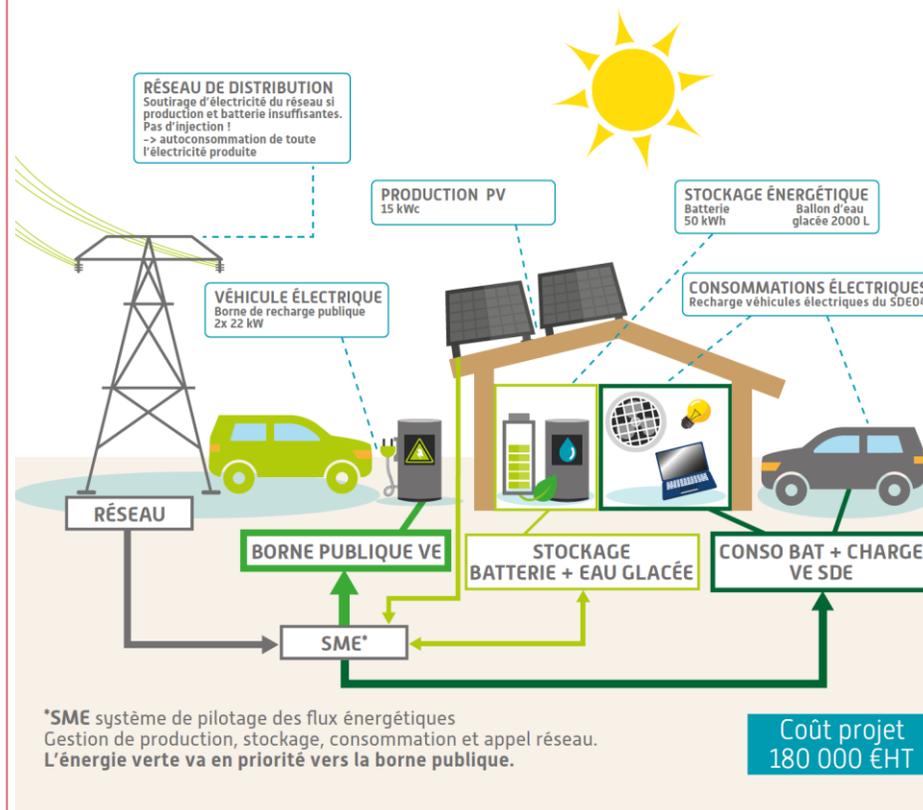
Fourniture Eaton :

- xStorage Compact C&I 40kW/50kWh
- Armoire de distribution PDD
- Mise en service & communication avec la GTB

Projet global:

Intégrateur EMS : EMC2 - Installateur Elec : Vinci-Cegelec

Mise en service : Décembre 2020



Financiers



Soutenu par



Prestataires



SAP Labs France Infrastructure – Mougins eMobilité

SAP – Précurseur du passage à l’emobilité sur les Bâtiments tertiaires.

Réseau de Distribution

- 680 Kw Enedis

Puissance de Recharge +100%

- 470 Kw in 2018
- 930 Kw in 2020

Générateur PV +60%

- 50Kw in 2018
- 80Kw in 2020

Stockage Eaton

- 40kW/150kWh 2020



Success Stories xStorage Buildings

Johan Cruijff ArenA (Amsterdam)



- Puissance nominale : 3 MW
- Capacité nominale : 2.8 MWh
- 4 convertisseurs bidirectionnels EATON
- 61 racks batteries
- 590 Packs batteries ESS (250 packs 2e vie et 340 neufs)
- L'équivalent de 148 batteries de Nissan LEAF
- Réduction de CO2 sur la vie du projet : 117,000 tonnes
- Puissance PV : 4100 panneaux / 1,1 MWc



Powering Business Worldwide





MERCI !

[HTTPS://WWW.EATON.COM/FR/FR-FR/PRODUCTS/ENERGY-STORAGE.HTML](https://www.eaton.com/fr/fr-fr/products/energy-storage.html)

Christophe Bourgueil - Business Developpement Stockage d'Energie
christophebourgueil@eaton.com