21st

European Week of

Regions and Cities

Thriving Regions, Stronger Europe

UDITE WORKSHOP 11WS23208

Local energy loops for local energy needs

16h30 to 17h30 - Wednesday 11th October, 2023

More information :- https://europa.eu/regions-and-cities/

(registration opens - 01/09/2023)











21St European Week of Regions and Cities

Thriving Regions, Stronger Europe





Europe: a key driver for the energy transition in the Morbihan

Danielle Havard
Deputy Chief Executive
Morbihan Energies, France



Morbihan Energies: Who are we?



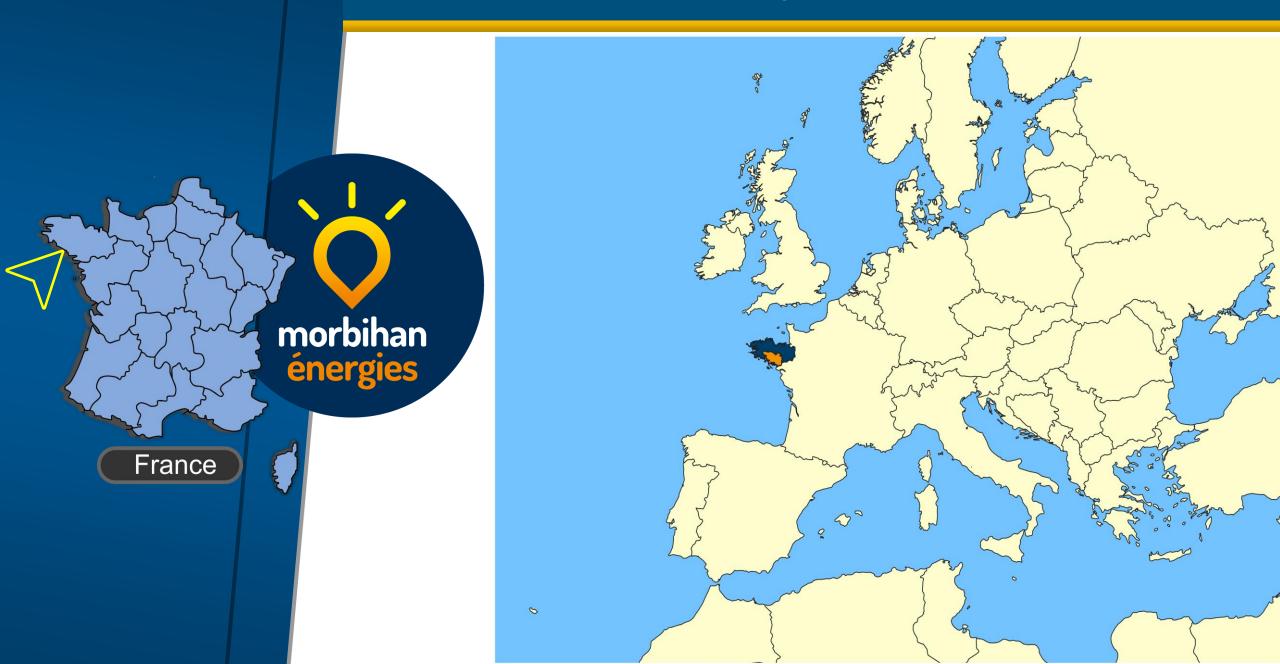
 Morbihan énergies, departmental union, since 1965, brings together all the municipalities of Morbihan + 10 EPCI

A "mixed" department, a fairly dense coastal area and a rural area + 764,000 inhabitants-6,823 km² Owner of low and medium voltage electricity networks, Organizing Authority for electricity distribution

Owners of 70+ PV plants – 33 projects under study A public network of electrical terminals (477 charging points)

An experimental site (small hydrogen station, smart grid, solar energy production)

Morbihan Energies: Where are we?

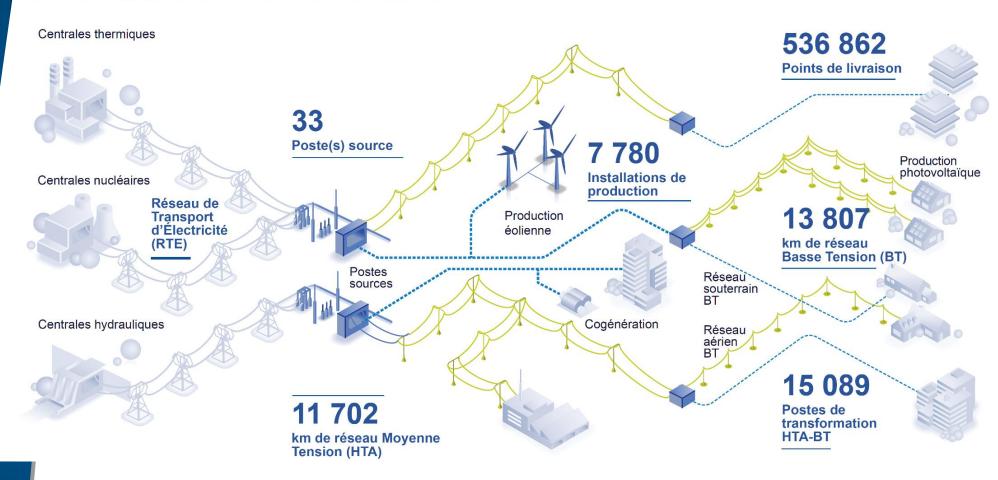


Our public electricity distribution network

Le réseau public de distribution d'électricité

Electricity





Morbihan Energies: Our main areas of activity



Électricité



Éclairage public



Achats groupés



Production énergies renouvelables



Rénovation des bâtiments



Système d'information géographique



Sécurité protection des données



Ouverture des données publiques



Data center



Vidéoprotection



Çertificats d'économie d'énergie



Éducation à la transition énergétique



Réseaux numériques



Conseils



Smartcity











Morbihan Energies and Europe





- EU support allows us to innovate, experiment and boost new practices
 Some illustrations of co-financed projects
- Strong help and support from Brittany Region, which is studying these projects alongside us
- Complex files to mount
- Open to working with new European partners





Winner for the financing of a platform to offer a car-sharing service.

Carbon-free mobility (electric vehicle) Response to the problems of the last kilometres:

to get to work to get to the doctor Between public transport & places of residence





Local energy loops with the support of Brittany Region





L'autoconsommation collective, un levier pour les collectivités



Local energy loops





Experimentation on 14 sites

Balance of the project over 20 years
 Control of the energy bill, fixed price over 20 years
 An inexhaustible source of energy
 A work of pedagogy and animation with the consum'actors and partners

Replication and innovation at 12 additional sites

- EU support to continue to innovate and boost local energy loop initiatives Balance of the project over a maximum of 20 years
- Modify the way of consuming energy (period ..), raise awareness among consumers, recall eco-gestures, create emulation

Local energy loops

What is collective local consumption?

Share locally produced electricity using the existing public distribution network.

All participants (producer and consumers) are connected to the low-voltage (<,250 kVA) or medium-voltage network.

The distance between each participant shall not exceed two kilometres.

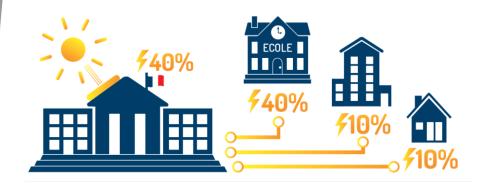
Producer and consumers are brought together within a legal structure: organizing legal entity (PMO).

Consumers retain their usual electricity supplier.

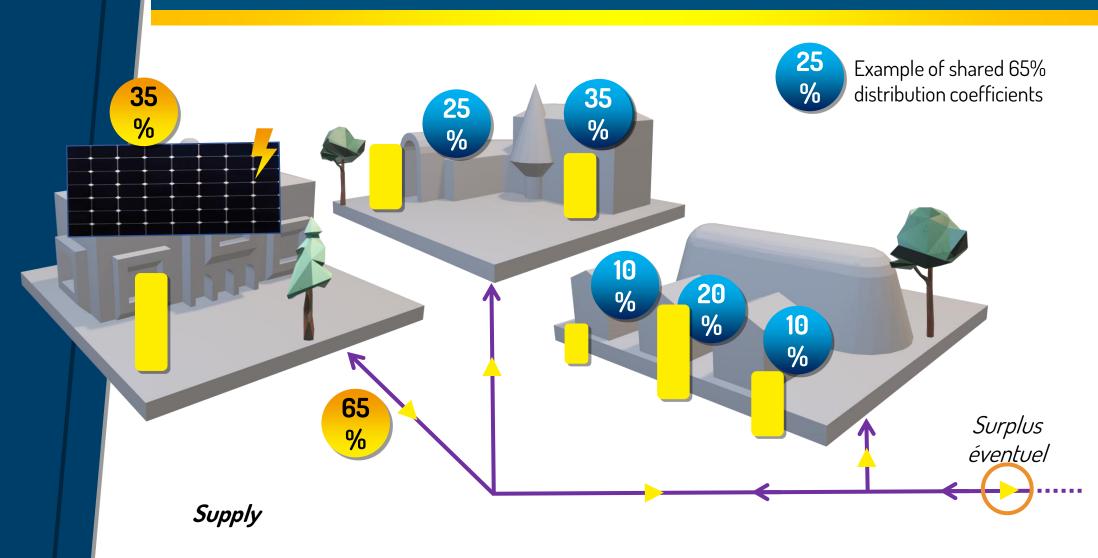
Producers and consumers must be equipped with a communicating meter.







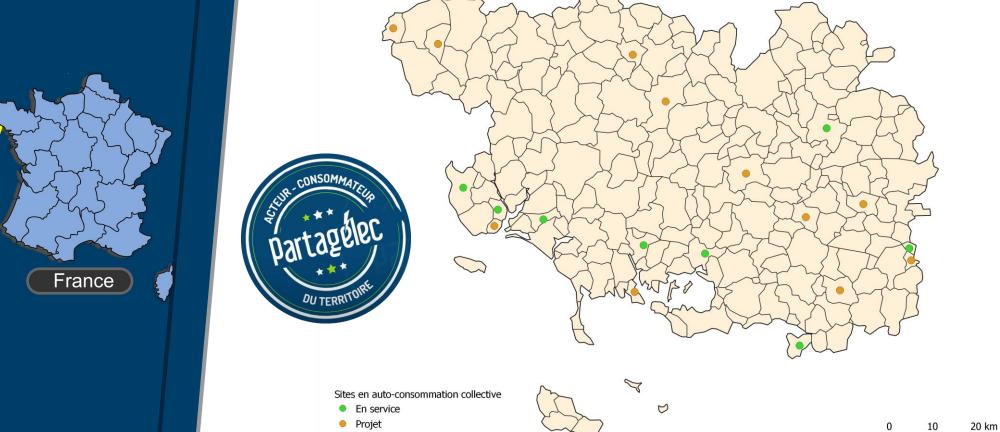
Collective local consumption: Sharing electricity in short circuits



Complement

Local = self-consumed share

14 local energy loops in Morbihan







Flexibility: experimentation The V2G vehicle, a new approach meaning to mobility











Training and employment, a challenge for the energy transition



Accelerating skills for the energy transition



INTERREG NESSIE – New Skills & Spaces Impulse for the Education of aspirant installers energy-transition

- Partnership between islands and coastal regions from the Netherlands, Germany, Belgium, Denmark and France and vocational schools
- ➤ Common challenge: overcoming the lack of engineers and technicians in the energy transition professions
- ➤ Objective: to offer accelerated and practical training, internships or work-study programs on the technologies of tomorrow Give training organizations access to these new technologies Establish international cooperation around these cross-cutting issues
- >Work to promote these professions and recruit

Thank you for listening

www.morbihan-energies.fr

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