## **MASERA**

## Microgrid for Affordable and Sustainable Electricity in Remote Areas

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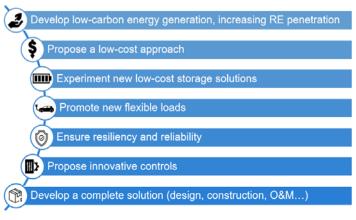
#### MASERA MICROGRID IN THE REIDS DEMONSTRATION CLUSTER

**EDF R&D** has signed a Research Collaboration Agreement with NTU to develop an innovative microgrid solution in the REIDS microgrids cluster in Singapore. **ENEDIS** is supporting EDF in the project execution. Other French and Singaporean partners are involved (startups, vendors, contractors).



#### **OUR OBJECTIVES**

**MASERA** aims at offering a better quality of life to local communities, through access to sustainable, affordable and reliable electricity, leveraging innovative technologies.



## MASERA: FROM THE REIDS CLUSTER TO INDUSTRIAL APPLICATIONS

Benefiting from its sound expertise and references in the microgrids area, **EDF** will leverage the REIDS infrastructure, as well as the active collaboration with **NTU** and **ENEDIS**, to derive industrial solutions based on the MASERA demonstrator.

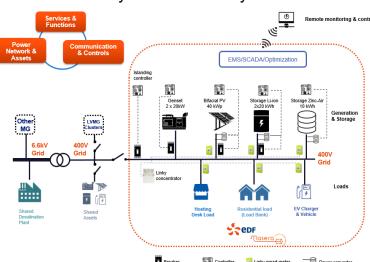
In France, ENEDIS will benefit from this international experience to develop new services towards local authorities and local communities.



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#### **INNOVATION INSIDE**

MASERA demonstrates that innovative and rugged solutions can be complementary, ensuring overall efficiency and affordability.





Integration of **second-life EV batteries** with new **zinc-air** batteries (EDF spinoff).



Advanced EDF control and energy management systems, ensuring standardization, interoperability, remote control and cybersecurity.



Maximization of **renewable energy** generation leveraging local flexibilities (active loads and energy storage).