



MASERA Microgrid Testbed

What is Masera (microgrid for affordable and sustainable electricity in remote areas)?

EDF, Enedis and the Nanyang Technological University, Singapore (NTU Singapore) have launched the microgrid project, MASERA (Microgrid for Affordable and Sustainable Electricity in Remote Areas). It is one key part of the Singapore International Energy Week (SIEW) and the 2018 France Singapore Year of Innovation.

What is Masera & how does it work?

The MASERA (Microgrid for Affordable and Sustainable Electricity in Remote Areas) microgrid will aim at bringing a better quality of life to these local communities, through access to affordable and reliable electricity, leveraging innovative technologies, ensuring enhanced reliability and resilience.

What is EDF Masera?

EDF's MASERA is part of NTU's offshore microgrid testbed known as REIDS (Renewable Energy Integration Demonstrator, Singapore). Located at Semakau landfill, NTU's REIDS is the region's first offshore microgrid testbed which integrates multiple renewable energy sources to develop solutions to tackle regional electricity issues.

What makes Masera unique?

Masera integrates various innovative solutions: bifacial photovoltaic panels, lithium-ion storage system, affordable and eco-friendly zinc-air battery from Zinium (EDF spin-off), Nissan Leaf electric vehicle, V2G (vehicle to grid) bidirectional charging hardware from Nuvve Corporation and load bank to reproduce typical customers' consumption.

The MASERA microgrid will be connected to the REIDS medium voltage grid by early 2019 and from there on, it will become a flexible testbed for various use cases (100% renewables, ...

REDEX and Rekursive Labs (Renewable Energy Certificate Platform from Startups) Testing and validation of the RECs creation and retirement platforms Proof-of-Concept using Hedera ...

Discover the MASERA Microgrid project as if you were there in an immersive experience in 360°;. Learn about the different aspects through videos, audio descriptions and more.

Abstract--This article presents the EDF MASERA microgrid testbed, conducted in partnership with NTU (Nanyang Technical University) on Semakau Island (Singapore) for which one ...

Masera Multi Energy Testbed To support the social-economic development in South East Asia (SEA) and the expansion of microgrids, in particular in remote areas, the Nanyang ...

The MASERA1 microgrid testbed is presented, conducted in partnership with NTU 2 on Semakau Island (Singapore) for which one of the research objectives is to implement a fully optimized solution to ...



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Article "MASERA: A Microgrid Testbed For Advanced Optimisation Of Renewable Integration"
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