

INNOVATIVE COMPANY BY TWO EXPERIENCED ENTREPRENEURS



The world's first solar desalination technology without battery









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The world's first solar desalination unit without battery



Reverse Osmosis Desalination

INCOMPATIBILITY

Photovoltaic Solar Energy



FLUCTUATING ENERGY PRODUCTION

OPERATION WITH CONSTANT POWER

TWO SOLUTIONS



FLEXIBLE REVERSE OSMOSIS







RODRIGUES, REPUBLIC OF MAURITIUS

COP23 FIJI UN CLIMATE CHANGE CONFERENCE BONN 2017

40,000 inhabitants over 110km² in the Indian Ocean



An island with a important consciousness for the environment





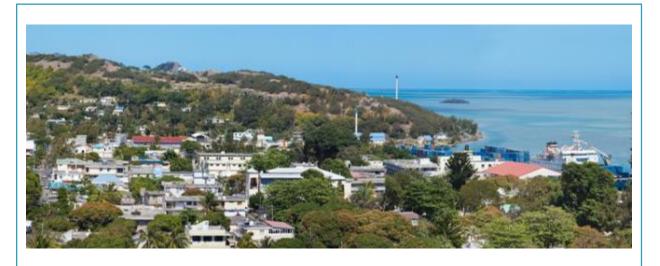




WATER STRESS IN RODRIGUES

COP23 FIJI UN CLIMATE CHANGE CONFERENCE BONN 2017

Address the water scarcity with desalination



DESALINATION PLAN INITIATED

to provide the 12,000m³ of water per day needed to address the population's need





20% OF THE INSTALLATION ARE OPERATING

Due to expensive cost of energy (USD 0.30/kwh) for conventional desalination solutions, leading to equipment degradation over time





ALIGNED INTERESTS FOR STANDALONE DESALINATION





Public utilities and governing bodies seeking viable solutions



Rodrigues' population & Regional Assembly

Water running 3h every 3 weeks



Central Water Authority

No solution for the water supply of the remote island



Central Electricity Board

USD 0.18 spent for every cubic meter desalinated by private organizations





CENTRAL GOVERNMENT GIVING STRATEGIC DIRECTION



Public utilities and governing bodies seeking responsible solutions



The Hon. Ivan Leslie COLLENDAVELLOO, GCSK,SC. Deputy Prime Minister, Minister of Energy and Public Utilities



Future desalination installation for the hotel industry must be powered by renewable energy sources.





MASDAR KICKSTARTED RENEWABLE DESALINATION



MASDAR's program revealed the first industrialised solar desalination solution



MASDAR Renewable Energy Desalination Program, Abu Dhabi



OSMOSUN® solar desalination unit performances qualified by MASDAR





FIRST PHASE OF RODRIGUES RENEWABLE DESALINATION ROADMAP

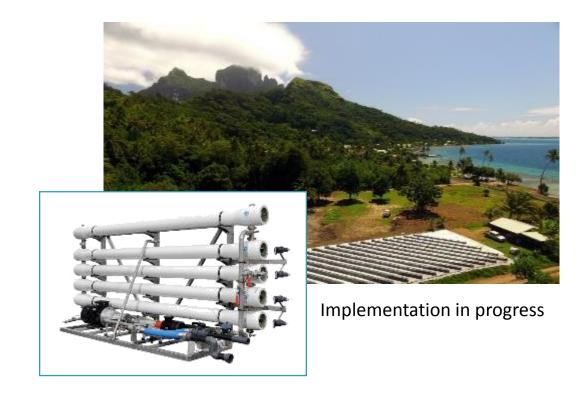




OSMOSUN®80 Solar desalination unit



July 2017 - Official launch of the first solar desalination unit of Rodrigues



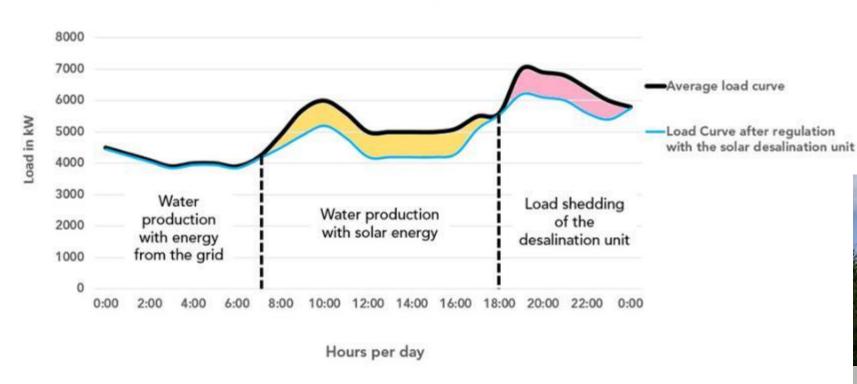


OSMOSUN® REGULATING THE ELECTRICAL NETWORK



The desalination unit uses the available wind energy at night

OSMOLOAD: Network regulation with flexible solar desalination



OSMOSUN® unit in hybrid mode take the most of the wind power available at night





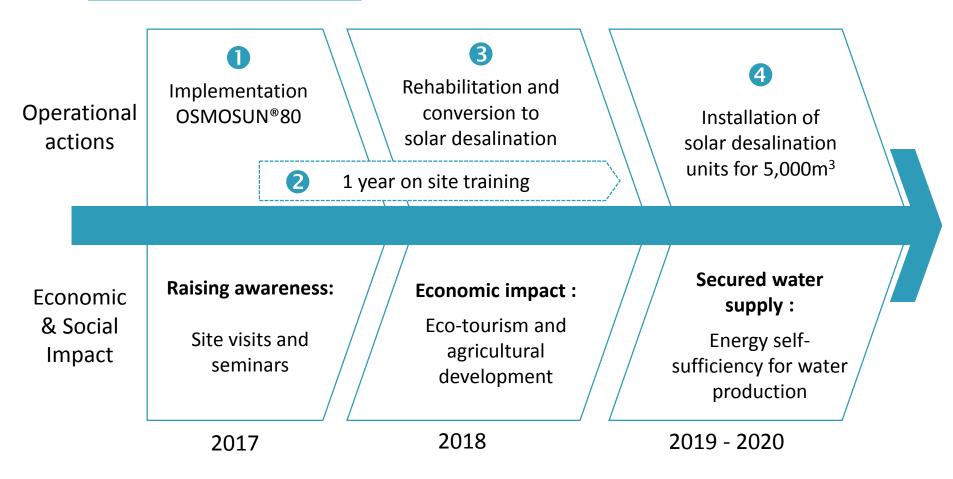


TURN RODRIGUES INTO AN EXEMPLARY REFERENCE FOR ISLANDS





Replace petrol water by renewable water for a sustainable development



Rodrigues' case used as a benchmark for implentation in Mauritius

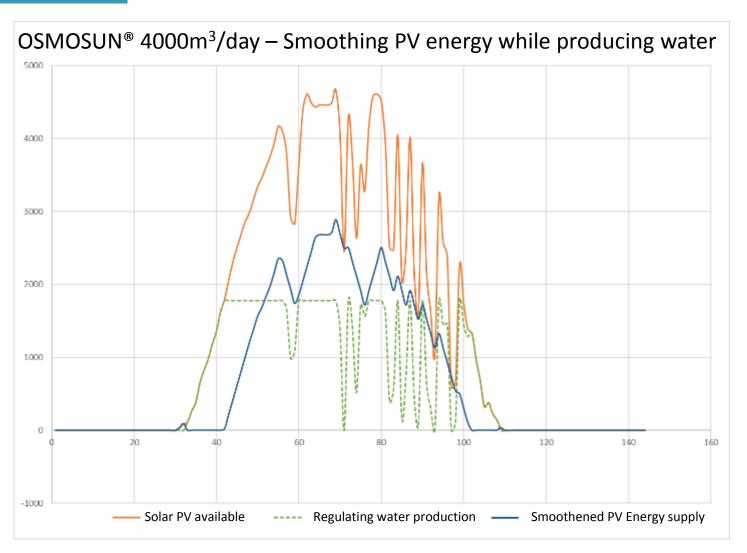


MASCARA'S UNIQUE SOLUTION FOR RENEWABLE WATER AND ENERGY





The OSMOLOAD feature to increase renewable energy penetration rate



Roadmap to island sustainability:

Paired renewable energy and renewable water supplies





LEADING THE WAY FOR RENEWABLE WATER



Q&A



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