



Singapore International Energy Week

Singapore, October 30th, 2018

Be the LEADING ENERGY COMPANY

EDF in 2017

€69.6 billion
Sales

35.1 millions costumers
worldwide

€611 millions
R&D's budget

152 033 employees

EDF's CO₂ emissions (power generation & heat) : 82g/kWh
(275 g/kWh in average for other European electric companies in 2016)

87%
carbon-free generation⁽¹⁾

(1) Direct emissions excluding life cycle, analysis of generating plant and fuel

LEADER IN LOW CARBON POWER GENERATION

- N°1 in the world for nuclear power generation
- N°1 in Europe for renewable energy generation
- N°3 in Europe for energy services

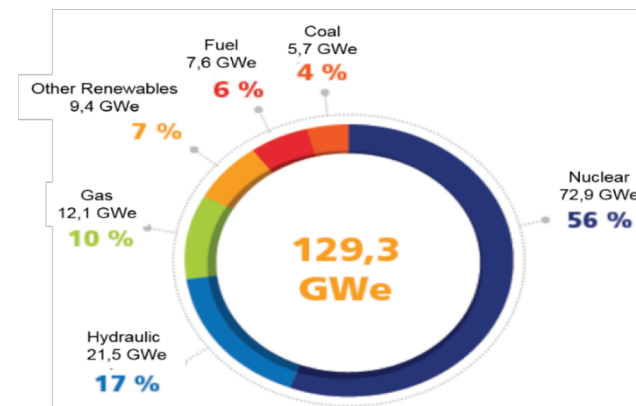
EDF COVERS ALL ELECTRICITY RELATED ACTIVITIES

- Generation
- Transmission & Distribution
- Trading
- Energy services

3 AMBITIONS

- Solar PV Plan
- Storage Plan
- eMobility Plan

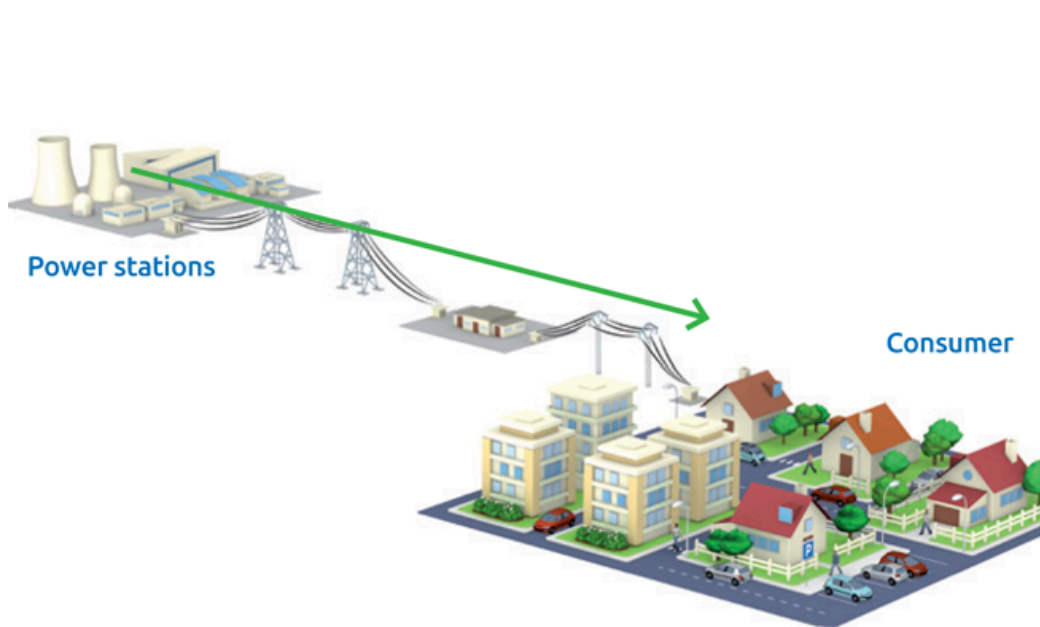
129.3 GWe
worldwide
installed capacity
in 2017



A new paradigm for the grid

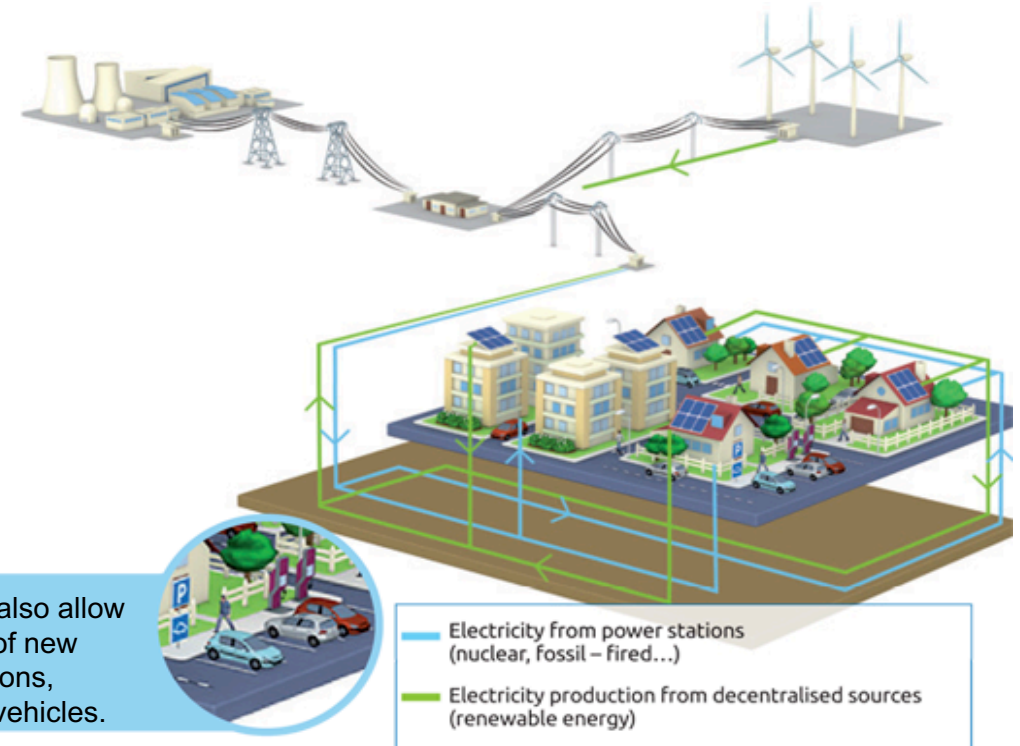
Yesterday

Yesterday's grid was initially designed to transmit electricity in just one direction, from power stations to consumers.



Today

A smart grid must allow electricity to flow in both directions to cater for the electricity produced using renewable energy sources.



Smart grids must also allow the development of new electrical applications, including electric vehicles.



ELECTRICAL SYSTEMS
OF THE FUTURE

Microgrids



SINGAPORE

EDF is developing a 'low-cost' microgrid in the frame of REIDS, a cluster of microgrid solutions on Semakau island.

Affordable : Containerized, remote control and monitoring, optimized design & components

Sustainable : Maximization of renewable energy, limited environmental footprint

Reliable & Resilient : Industrial grade solutions, standardized, and smart controls





MICROGRIDS FOR REMOTE AREAS

MASERA demonstration in Singapore



THANK YOU