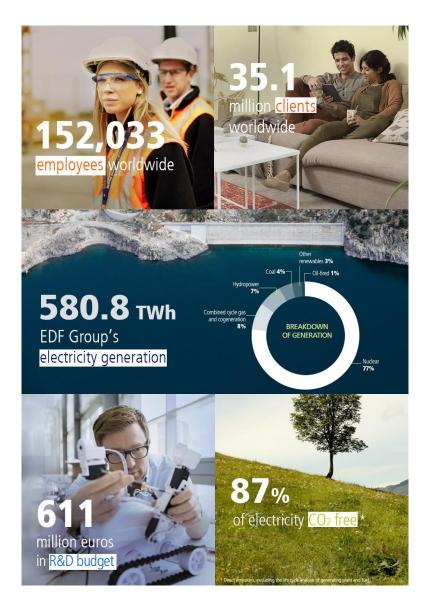
# ELECTRIC MOBILITY



## Facts & Figures



# EDF GROUP



#### **ELECTRICITY STORAGE PLAN**

- + 10GW by 2035, ~ €8 billion investment
  - Support to the grid
  - Decentralized storage
  - Developing countries
- x2 R&D budget, 70 M€ over [2018 2020]
- 15 M€ investment in start-ups

### **ELECTRIC MOBILITY PLAN**

To be announced later this year









**Charging infrastructure Operator** 

with the deployment of charging stations for electric vehicles, supervision and implementation of standards, technical operation and maintenance

**Services:** real time monitoring of the fleet (supervision); user services such as consumption and bills monitoring, remote maintenance

solution for accessing our network of charging points: The Sodetrel Pass

rapid charging points every 80km on the main French motorways

369.998 charges supervised





SERVICES FOR USERS







TOOLS FOR MANAGING THE NETWORK OF CHARGING POINTS





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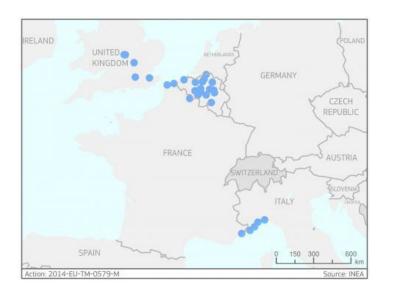




## **EU PROJECTS**

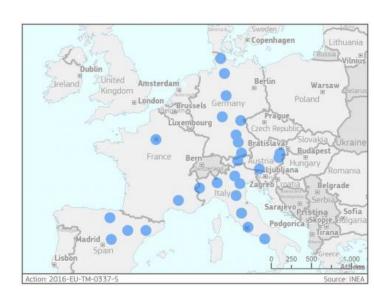


Deploying and operating a 200 interoperable multi-standard fast charging stations network, along the main TEN-T axes in France, bringing EVs out of cities





~40 fast charging stations in Belgium France, Italy and UK to ensure EU-wide continuity of service and interoperability.





Deployment of ultra-fast charging stations (150 kW - 350 kW) in Spain, France and Italy, aiming at long distance journeys



## WILL THERE BE ENOUGH ENERGY TO POWER ELECTRIC CARS?

The electric power train of an EV is at least 3 times more efficient than a usual car.





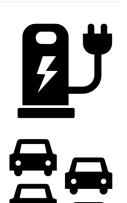
If ½ of the cars in EU were electric in 2035, the additional electricity consumption would be less than 8,7%

There is no question on the availability of electricity, even in the case of a very strong development of the EV market.



## IS THE ELECTRICITY NETWORK READY FOR EV MARKET DEVELOPMENT?





Under the assumption of 15 million EVs on the road in France in 2025 and considering that 1 publicly available charger will be needed for every 10 EVs (30 times more than traditional fuels):

Increase number of connection operations by 5%

Existing technologies and solutions already deployed could meet the needs of up to a 50% EVs in the car market.

Need to anticipate the transition but no dramatic impact to be considered.



## CONCLUSION

- The power industry is ready for the transition of the transport sector
- The EU electricity mix is on a decarbonization path
- The existing electricity system can already accommodate millions of EVs
- Smartcharging will be needed
- The journey will last at least 20 years
- Transition can only happen if Transport & Energy players work together

## **THANK YOU!**



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