

TECHNOLOGICAL TOPICS OF INTEREST

Challenge EPIC

Bologna, 24 Novembre 2021

1. SECOND LIFE BATTERY

Electric mobility in Italy

Interest in exploring this emerging and fast-growing market

17.065
on 2019

59.900
on 2020



In 2030, sales of electric cars will exceed those of traditional thermal vehicles

Reflections in the world of Utilities



2. PREDICTIVE MAINTENANCE OF THE ELECTRIC AND GAS DISTRIBUTION NETWORKS

Innovation and digitalization of the entire electricity and gas distribution system

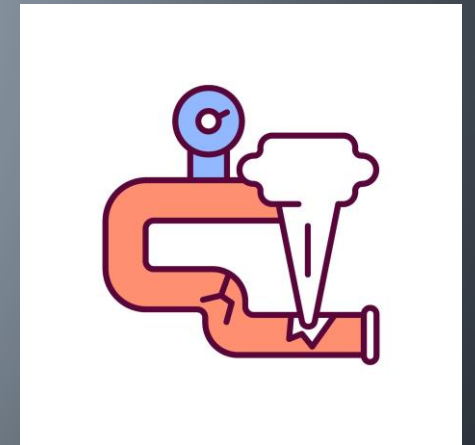
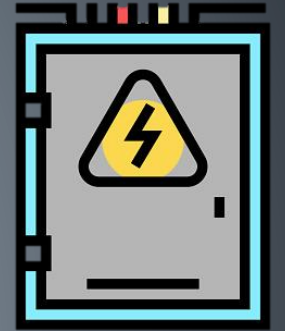
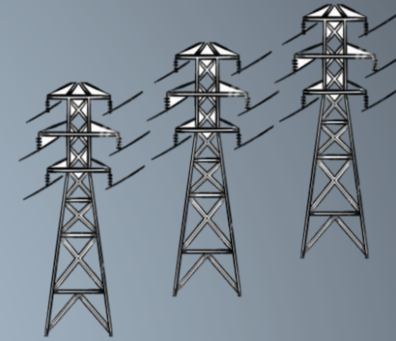
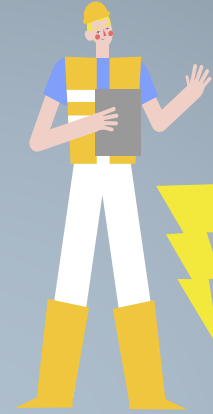
- Fast leakage detection: environmental benefits
- Increased security and system resilience
- Reduction of faults and interruptions



Electric shock recognition? (ozone?)



Gas leakage detection?



3. REAL TIME MEASUREMENT OF THE GAS QUALITY DISTRIBUTED

Real-time measurement of the distributed gas mixture (methane / hydrogen)

Real-time measurement of the persistence of the odorant in the network



Inline sensors



Other technologies that exploit optical measurements ?

