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European Union
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Smart Grid Area

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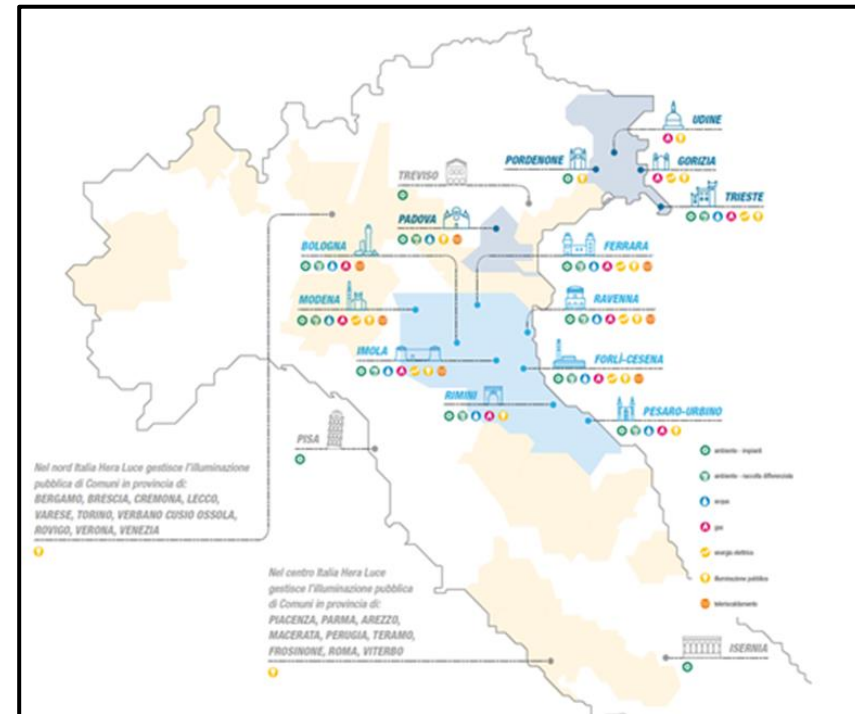
AcegasApsAmga

AcegasApsAmga is the Distribution System Operator (DSO) of Trieste and Gorizia municipalities in Friuli Venezia Giulia.

The Company is 100% controlled by Hera Group, one of the biggest multiutility in Italy. Our goal is to improve the electrical grid and the quality of service to ensure the achievement of the European Green New Deal objectives.

Operative Numbers:

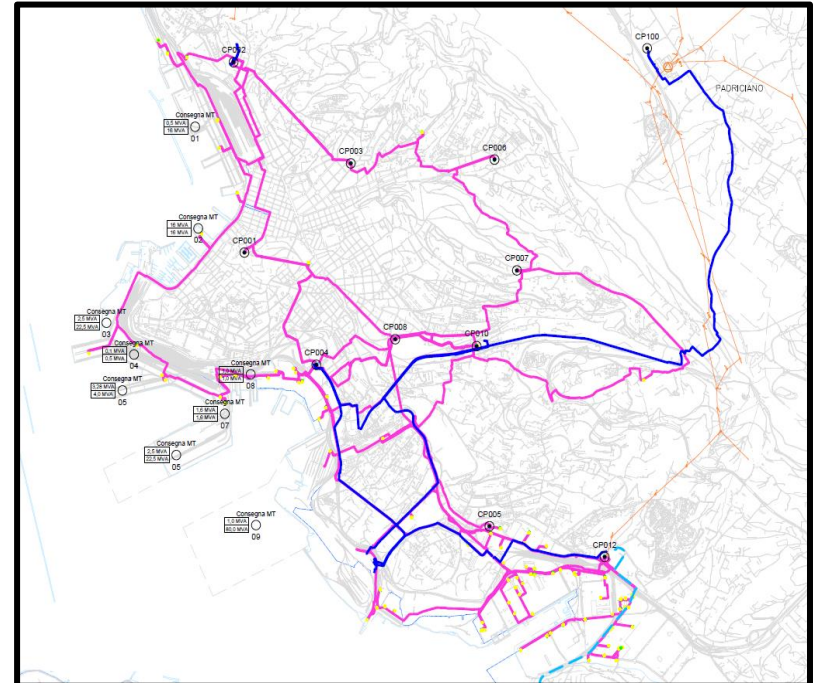
- 750 km of medium voltage cables lines;
- 1500 km of low voltage cable lines;
- 5 primary electrical stations;
- 1200 secondary electrical substations;



Trieste Electrical Grid: the DSO perspective

Grid Flexibility: refers to the capability of a power system to maintain balance between generation and load during uncertainty, resulting in increased grid efficiency, resiliency and the integration of variable renewables into the grid.

- Flexibility is synonymous of Smart Grid;
- Flexibility, pass through shared data between TSO/DSO and final users;
- Digitalization of the grid (digital twin) is a mean to achieve flexibility;
- Flexibility for improve the reliability of the grid;



Trieste Grid- some hints for the discussion

Trieste's Electrical Grid needs to evolve becoming one of the enabling factor for energy transition.

Some trends:

- **Electrification** of households;
- All the **low voltage grid** is under deep evolution;
- Right now the Harbor Area is going to implement the **Cold Ironing**;
- **Digital Twin**: digital model of the grid for online simulations;
- Implement grid **flexibility** in accordance to the variable energy demand;
- Host all the **green energy** and coordinate it with the **storage** system and network power demand;





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Project media