

## WiseGRID demonstration site

### Smarter systems. Empowered citizens



The European project WiseGRID wants to contribute to Europe's transition to a low-carbon economy by increasing the use of renewables through the promotion and demonstration of innovative and smart technologies. This will be demonstrated and evaluated under real life conditions in Belgium, Italy, Spain and Greece.

One of the demonstration sites is in Terni, a small sized city at the heart of Italy with 105.000 inhabitants. The local multi-utility operator (ASM) is fully owned by the municipality. ASM Terni directly owns and operates the power distribution grid and distributes electricity to the end consumers (65.000 Smart Meters).

**Terni, a pilot site for WiseGRID!**

## Infrastructure in Terni

- Area: 211 km<sup>2</sup>
- ~ 65,000 end users
- 400 GWh supplied yearly
- 70 MW is the peak power
- Electricity consumption : 5,7 GWh of which 2,6 is residential
- 587 km of Medium voltage and 1,762 km of Low voltage lines



- ↑ Renewable Energy share
- ↓ Electricity consumption
- ↑ Efficiency of the grid
- ↓ The electricity bill

## What exactly will be tested?



**Wisecoop:** Application for energy retailers, aggregators & local communities and to consumers and prosumers achieve better energy deals.



**Electric Vehicle Platform:** This tool will be used by vehicle-sharing companies in order to optimize charging and discharging of the Electrical vehicles and reduce energy billing.



**Wisecorp:** Corporate application for businesses, industries, ESCO's and public facilities consumers and prosumers to become active, smarter energy players.



**Energy Storage:** Through this tool consumers/prosumers can easily offer their unused storage capacity to the market.



**InterOperable Platform:** Secure and open ICT platform for real time monitoring and decentralized control to support effective operation of the energy network



**Charging station for electric vehicles:** This tool will make possible to use Electric vehicles as dynamic storage devices, feeding electricity stored in their batteries back into the system when needed.



**Cockpit:** This tool will be used by DSO's or microgrids Operators in order to control, manage and monitor their own grid, improving flexibility, stability and security of their network

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Which **local partner** is involved?

**ASM Terni SpA** is a Municipal Company with around 65.000 customers. ASM engages in production and distribution of electricity, water treatment & distribution, natural gas distribution and public lightening. The company is also working on increasing energy efficiency, use of renewables and e-mobility.



[www.asmterni.it](http://www.asmterni.it)