

# Rome smart grid



## Overview

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In Rome, Acea's Smart Grid project aims to modernize its electrical grid by integrating renewable energy sources, improving energy efficiency, and providing backup power during outages. This innovative approach will benefit both residents and businesses in the metropolitan area. To this end, the JRC and ACEA - one of Italy's biggest Distribution System Operators (DSOs), in charge of managing the distribution system of Rome - teamed up to study the merits of deploying Smart Grid technologies (preliminarily tested in a pilot project) in a big city like the Italian capital . Siemens and Roman DSO, Areti, have announced their collaboration on the RomeFlex project, which starting today will test the ability to manage congestion and voltage volatility across the stressed power grids of Italy's capital city. Leveraging Siemens' digital expertise and software, Areti is . They use advanced technologies like sensors, smart meters, and energy storage systems to monitor and control energy flow, ensuring a stable and efficient supply. Led by Andrea Golino, a team of innovators has developed an algorithm that optimizes energy . 115 years since its founding, the Group's commitment to the Holy Year 2025. The project, aiming to make the energy grid increasingly smart, has been selected for european funding Areti, in partnership with the Campidoglio and the Roma Tre University, will start the experimentation for flexible . Rome-based Areti has designed a local flexibility market architecture that will be boosted by Siemens energy domain know-how and dedicated technology.

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### Rome Takes Its First Steps Towards The Smart Grid

In Rome, Acea's Smart Grid project aims to modernize its electrical grid by integrating renewable energy sources, improving energy efficiency, and providing backup power during outages.

### Siemens teams for grid project in Rome

"With our RomeFlex project, we're proudly driving innovation in Italy and Europe, using flexibility in order to make the grid smarter, more resilient and future proof.



### A Smart Grid for the city of Rome: A Cost Benefit Analysis

The main impact that smart grid deployment has, in different respects, in smart cities is discussed and a methodology for an extended CBA is presented, able to go beyond the strictly financial aspects.

### A Smart Grid for the city of Rome: a Cost Benefit Analysis

This study illustrates the outcome of the application of the JRC Cost Benefit Analysis (CBA) to a) the ACEA Smart Grids pilot project; and b) the planned deployment of Smart Grid technologies (tested in



### A Smart Grid for the city of Rome: A Cost



### **Flexibility Needs of Rome's Power Grid in Energy Transition**

Growing demand for renewable energy and electricity necessitates a shift to decentralized smart grids, where customers actively participate alongside multiple local energy sources. Prosumers must



### [Acea launches a project to deploy interactive technologies between](#)

Acea was awarded European funding for a project to develop and test a cutting-edge technological solution in Rome. The solution will enable flexible mechanisms for the electricity



### **Benefit Analysis**

Abstract In this work, the JRC applies its Smart Grid CBA methodology to a full-scale project rather than only to a small-size demonstrative one.



### **Rome's V2B Breakthrough: Smart Grids Meet Electric Vehicles**

In the heart of Rome, a groundbreaking experiment is unfolding at the LAMBDA lab of Sapienza University, where researchers are reimagining the way energy flows between electric



### [Siemens collaborates with Areti on RomeFlex project to enable local](#)

Siemens and Roman DSO, Areti, have announced their collaboration on the RomeFlex project, which starting today will test the ability to manage congestion and voltage volatility across

### **Rome takes steps to build resilience in its energy grid**

Siemens and Roman distribution system operator (DSO), Areti, have announced their collaboration on the RomeFlex project, which will test the ability to manage congestion and voltage



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