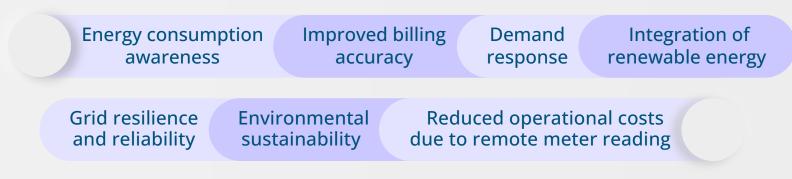
SMART METERS AND SMART GRIDS INTEGRATION IN THE MEDITERRANEAN

Across the Mediterranean, governments and energy regulators are taking steps to modernise and optimise their electricity grids. This ambitious push involves the widespread **integration of smart meters**

1. BENEFITS OF SMART METERS AND SMART GRIDS



3. STATE OF PLAY AND REGULATORY FRAMEWORK SUPPORTING SMART **METERS AND SMART GIRDS** DEPLOYMENT

In the Mediterranean region, the regulatory framework for smart meter implementation varies across countries. While some nations have **specific legal mandates in place**, others are in the process of formulating regulations or are reliant on international support for future deployment. This diversity in regulatory approaches reflects the unique challenges and priorities each country faces in their journey towards modernising energy infrastructure through smart metering and smart grid technologies.

Several countries, including France, Italy and Spain, have already deployed large-scale smart metering systems, while others such as Greece and Türkiye are in the process of implementing them. By contrast, **countries of the southern shore** are in the **initial stages of implementation**, primarily through pilot projects.

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REGULATORY FRAMEWORK SUPPORTING SMART METERS AND SMART GRIDS INTEGRATION

• Legal obligation established in 2022 to install smart meters and to integrate them in smart grids for 100% of low-voltage consumers by the end of 2024.

• Implementation of the advanced metering infrastructure and adoption of smart post-payment and prepayment meters.

• Smart meters are mandated by law *for self-producers.*

and smart grid technologies. These advancements aim at reducing energy losses and transforming the region's energy sector into a dynamic and efficient system.

2. TECHNICAL CHALLENGES AND SOLUTIONS **TO THEIR IMPLEMENTATION**







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Lack of interoperability standards

Regulatory support for harmonisation, interoperability and clear technical standards



Assessment of the return on investment



Compatibility issues with the existing infrastructure



Standardisation, interoperability testing

