



# Smart Metering in Europe

17th edition

*Smart Metering in Europe is the seventeenth consecutive report from Berg Insight analysing the latest developments for smart metering electricity and gas in Europe. This strategic research report from Berg Insight provides you with 320 pages of unique business intelligence, including 5-year industry forecasts, expert commentary and real-life case studies on which to base your business decisions.*

# Over 209 million smart electricity and gas meters now deployed across Europe

More than 53 percent of the electricity customers in EU27+3 had a smart meter at the end of 2021 – a figure that is expected to increase to as much as 74 percent in 2027. In terms of shipments, smart meters accounted for around 83 percent of total EU27+3 electricity meter shipments in 2021. Italy, which is currently in the midst of its second-generation rollout, was the largest market in terms of shipments with around 6 million units installed during the year. France was the second largest market by volume with yearly shipments of nearly 5 million units, having completed the mass-rollout phase of its national deployment during the year. The UK, Poland and Austria were also in the top five in terms of shipment volumes. Other markets with large installation volumes during the year included Sweden and Portugal. The market is set for robust growth in the coming years with a total of 106 million smart electricity meters forecasted to be deployed across the region during 2022–2027.

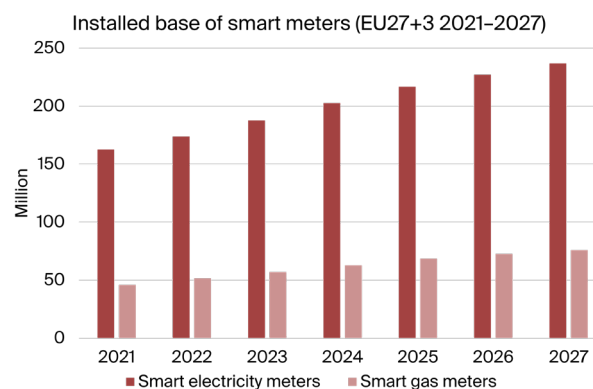
In addition to major first-generation deployments in countries such as the UK, France, Austria, Belgium and Portugal, second-generation rollouts in countries such as Italy and Sweden will contribute with substantial shipment volumes up until 2024–2025. Poland, which is currently ramping up smart meter installations will meanwhile account for a substantial and increasing share of smart meter shipments throughout the entire forecast period. In the later part of the forecast period, the ramp-up of second-generation installations in markets such as Spain as well as first-generation deployments in Greece and Germany are also expected to be important contributors to yearly shipment volumes. In total, replacements of first-generation smart meters are expected to be in the range of 30–35 percent of total smart meter shipments in Europe throughout the next five years, or 5–7 million units annually.

While rollouts in many countries in Western Europe and the Nordics are now either well-advanced or largely completed, the focus is increasingly shifting to Central, East and Southeast Europe. The outlook for the region has improved significantly over the past two years with multiple major rollouts now planned or already under way. Overall, the CEE and Southeast European region is expected to account for as much as 48 percent of annual EU27+3 smart meter shipments in 2027, up from 18 percent in 2021. Looking only at the growth in annual shipment volumes of first-generation smart meter projects, all the 10 fastest growing markets are now found in CEE and Southeast Europe.

The rapid development of new wireless technologies for IoT communications has a major impact on the smart metering market in Europe. DSOs planning for new smart grid projects and rollouts in the 2020s have a wide range of increasingly

sophisticated wireless technologies to choose from for their networking platforms. Wireless technologies have major advantages compared to PLC technologies which dominated the first wave of smart electricity deployments in Europe. Supported by massive R&D investments in the mobile communications industry, 3GPP-based LPWA technologies such as NB-IoT and LTE-M are now rapidly gaining traction in the utilities space. Several major deployments utilising these technologies are now either under way or about to begin in the Benelux, the Nordics and the Baltics. 3GPP-based LPWA will be the fastest growing technology group for smart metering connectivity during 2021–2027 and will more than triple its smart meter connectivity market share throughout the forecast period. At the moment, various forms of PLC remain the dominant technology group in terms of installed base although purely wireless communication options are forecasted to grow their share of annual shipments from 32 percent in 2021 to 57 percent in 2027.

Adoption of smart metering is also growing fast in the European gas distribution market. Berg Insight estimates that annual shipments of smart gas meters in the EU27+3 amounted to 6.6 million units in 2021. Along with the completion of the mass-rollout phase in the major markets France and Italy during 2021–2022, annual demand will drop to a stable 5–6 million units until 2027. France was the largest market in 2021 with yearly shipments of 2.3 million units while the UK and Italy accounted for 1.8 million and 1.7 million units respectively. Shipments will decrease in Italy from 2021 and onwards, and yearly shipments in France will stay at around 1.9 million units next year before dropping in 2023. After multiple delays, the UK market is expected to gradually ramp up smart gas meter installations to reach a peak of 3.4–3.6 million units during 2023–2025. A significant volume of smart gas meter installations is also anticipated in a number of small- and mid-sized countries over the coming years, including for example Belgium, Ireland, Lithuania, Greece and Poland.



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### Glossary

## Highlights from the report

**Full coverage** of the European market with in-depth market profiles of all countries in EU27+3.

**Case studies** of smart electricity and gas metering projects by the leading energy groups in Europe.

**360-degree overview** of next-generation PLC, RF and cellular standards for smart grid communications.

**Updated profiles** of the key players in the metering industry.

**New detailed forecasts** for smart electricity and gas meters in 30 countries until 2027.

**Summary** of the latest developments in the European energy industry.

## Questions answered in the report

- Which are the major trends shaping the European smart metering market?
- What is the status and outlook for second-generation smart metering rollouts across Europe?
- Which new projects are utilising NB-IoT and LTE-M cellular communications?
- How do smart metering technology choices vary across Europe?
- How is the regulatory environment for smart metering evolving on the national level?
- Which are the largest utility companies in each country in Europe?
- Which are the leading suppliers of smart metering solutions for the European market?
- Which countries lead the adoption of smart gas meters?



## About Berg Insight's IoT market research

Our market reports offer comprehensive information and analysis on key IoT technologies and markets, addressing important concerns including total addressable market, market penetration, market shares, industry landscape, regulatory environment, market trends and forecasts. Our research portfolio today comprises more than 60 items, where each market report focuses on a specific vertical application area or cover horizontal themes. All market reports come with complementary data sets in Excel format that can be easily analysed and converted into tables and charts. We offer a range of different license options together with bundled packages and subscriptions to suit your specific needs.





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# Smart Metering in Europe

Are you looking for detailed information and comprehensive data about the European smart metering market (electricity and gas)? Berg Insight's analyst team has been covering smart metering continuously for more than seventeen years. Smart Metering in Europe is our flagship 320-page report covering AMM in EU27+3. Learn more about the EU energy policies driving the adoption of smart metering and the latest market developments in Europe. Extensive data Excel is included.

PUBLISHED DATE	November 2022
EDITION	17th
PAGES	320
AUTHOR	Mattias Carlsson

PDF & EXCEL: 1 user license	€ 1 800
PDF & EXCEL: 2-10 user license	€ 2 700
PDF & EXCEL: Enterprise license	€ 3 600

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## Who should read this report?

Smart Metering in Europe in its seventeenth edition is the foremost source of information about the ongoing transformation of the metering sector (electricity and gas). Whether you are a vendor, utility, telecom operator, investor, consultant, or government agency, you will gain valuable insights from our in-depth research.

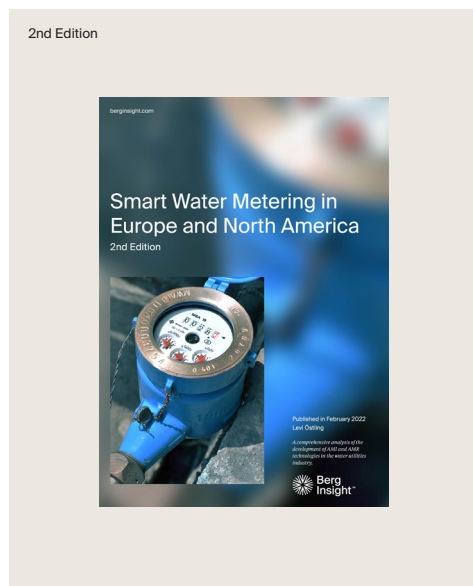
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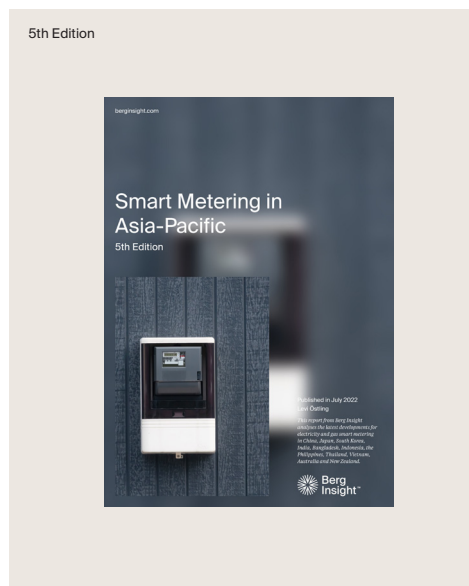
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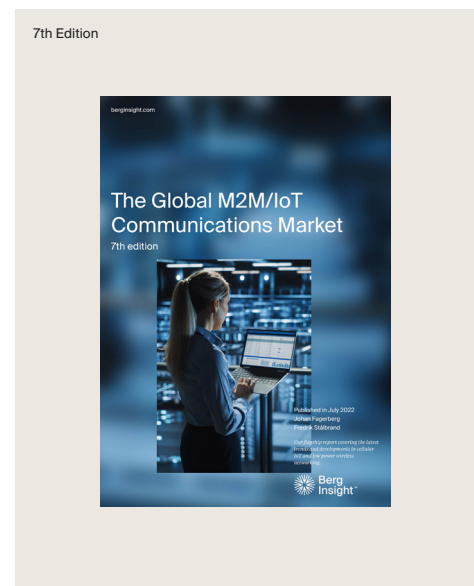
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