DIGITAL ENERGY

STUDY SUMMARY

Satellite data, key allies for energy network management

Fact Sheet 4

They did it: concrete use cases

From satellite data… to decision support in the field

Here are three **inspiring use cases** detailed in the study, where satellite data has enabled **better planning, deployment, and adjustment of electrical infrastructure.**

CPCS

🇸🇳 Senegal

🇸🇴 Somalia

🎯 **Objective**: Plan future investments in energy access

💉 **Approach**: Combine satellite and socioeconomic data to map priority areas

📌 **Result**: More realistic scenarios for extending networks to poorly covered areas

MASEA (Mini-grids)

🇱🇷 Liberia

🎯 **Objective**: Identify the best sites for mini-grids

💉 **Approach**: Use of land use and building density data

📌 **Result**: Prioritize sites best suited to real needs and the terrain

KAYRROS

🇨🇮 Ivory Coast

🎯 **Objective**: Detailed mapping of the existing electrical network

💉 **Approach**: High-resolution satellite images combined with artificial intelligence

📌 **Result**: Precise visualization of network lines and nodes to improve asset management

🧩 Why is this interesting?

These projects demonstrate how spatial data, when used properly, can transform decision-making: better targeting investments, avoiding field errors, and optimizing resources.

📎 Other examples can be found in the project sheets of the full study.