

# EO services contributing to SDGs

## Earth Observation for Energy and Sustainability



- **User:** Oil and gas, utilities, mining sector, renewable energy sector.
- **Challenge/Needs:** If every person must have access to energy, we must provide that energy and ensure the infrastructure is ready to fulfill that purpose. Climate change also creates additional challenges for energy suppliers, like having to cope with unexpected surges in electricity demand due to an unpredictable weather; developing countries are likely to suffer a greater impact from climate change than other nations.
- **Initiative:** Affordable EO data assists in monitoring remote and large-scale critical infrastructure, exploring and planning new sites, assessing compliance, and measuring output of specific renewable energy projects.
- **Results:** Continuous overview of critical infrastructure allows access to affordable, reliable and modern energy services without interruptions. Case study: Solar Energy: Using EO Data to Measure the Capacity of Solar Parks
- **Service Provider:** Satellogic

Target 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services. (status of settlements).  
Indicator 7.1.1: Access to electricity.



Using geospatial software or a set of APIs, managers can analyze an image of a solar panel farm and estimate its PV (photovoltaic) Panel Evolution in terms of area and capacity.