



Renewable Energy session and action group on renewable energies

Support the research and development towards Earth Observation products and services for energy management

Challenges defined by:

- The Paris Climate Agreement
- *Supporting the clean energy transition of the European Green Deal*
- UN 2030 Agenda for Sustainable Development - *SDG 7*
- Re-power EU (45% by 2030)
 - saving energy
 - producing clean energy
 - diversifying energy supplies

e-shape: pilot applications:

development/upscaling/end user engagement

- Off-Shore wind energy
- High photovoltaic penetration at urban scale
- Solar energy forecasting

& **other initiatives** e.g. the Copernicus Thematic Hub on Energy (complementarity, cooperation, coordination)



Action group on Renewable Energy

Message: Take advantage of the e–shape renewable energy investment on research, end user engagement experience and capacity building and intensify the efforts through action group networking towards the support to the development of Earth observation products and services for energy management

Geo VENER: GEO Vision for energy to support solar and wind energy research and applications: re-vitalize this GEO initiative. Include new groups, increase visibility

Create formal links of the **Action group on renewable energy** with GEO-VENER, contribute to define strategic priorities in the EuroGEO and GEO

- Enhance the use of the open-source business-compliant Earth Observation (EO) **access to data and supported by cloud facilities** provided by the European program Copernicus.
- Applications to support **combined** (e.g. solar, wind..) end-to-end energy production systems (including planning, transmission, distribution and management: storage/use/trade).
- Creation of “flexible” to end user needs application platforms (data assimilation / spatiotemporal accuracy)
- Explore new technologies and in situ data exploitation