

1. SOS-PVi

2. What is integrated with DSM

DG

Energy storage

Smart grid technologies

3. What is the level of commercialization

Research project

Demonstration

Field test

Existing practice

4. Where to find more information?

http://ec.europa.eu/research/energy/pdf/synopses_electricity_en.pdf

Page 36.

5. Objectives of the case

Developing an inverter, dedicated to the injection of photovoltaic energy into low voltage grids, with special features so that first, the impact on the grid of the very quick fluctuations of sun irradiation is minimised and even more, the PV system provides grid support on demand and secondly, the end user is protected against poor power quality and outages of the grid.

6. Business rationale/model

7. Technologies used

PV production, different storage systems and prototypes of inverters.

8. Short description of the case

9. Achieved/expected results (operational savings, CO₂, efficiency enhancement)

Minimise the impact of PV systems on the grid operation and planning;

Ensure security and quality of electricity supply to houses and buildings with PV installations;

Increase performance ratio of PV systems;

Increase penetration of PV in the networks.

10. Lessons learnt

Not yet available