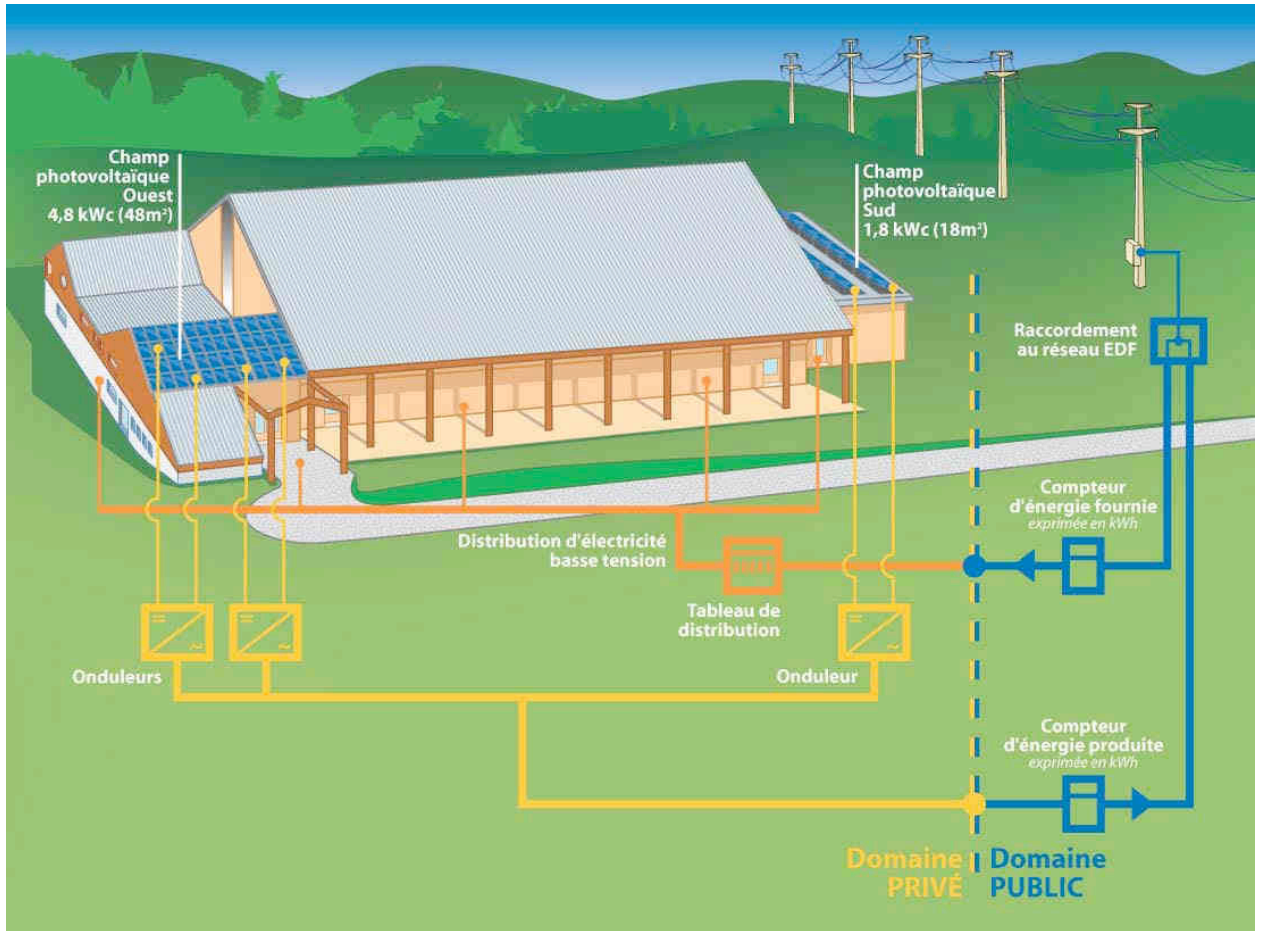


GRID CONNECTED PHOTOVOLTAICS



Technology

The photovoltaic (PV) modules convert the solar irradiation into DC current which is then transformed in AC current by a grid synchronous inverter. The AC current is injected into the electrical distribution network. Electricity meters are measuring on the one hand the electrical energy consumed from the grid, and on the other hand the energy supplied to the grid by the PV generator.

This design provides the following advantages:

- Optimal use of the available PV energy production independently of the electricity consumption.
- No battery storage needed.
- Reduction of the electricity bill, thanks to the supply of the solar electricity to the grid.
- Active contribution of the building envelope (facades or roofs).
- Positive image and pedagogical impact.
- Reduction of greenhouse gas emissions and fossil fuel consumption.

GRID CONNECTED PHOTOVOLTAICS

Services

FEASIBILITY STUDIES

- Solar resources study, technical and architectural constraints assessment
- System sizing, monthly & yearly energy output estimations
- Investment costs, operation costs and revenues generated

TECHNICAL ASSISTANCE

- Independent consulting, technical engineering
- Authorizations, project management
- Call for tenders, follow-up of the works, commissioning

INDEPENDENT AUDIT

- On-site monitoring equipment,
- Data collection,
- Performance assessment.

COMMUNICATION & DISSEMINATION

- Outdoor/Indoor interactive information signs
- Brochures for general public dissemination

TRAINING

- Target groups: architects, project owners, building and utility engineers and fitters
- Topics: design, sizing, installation and operation of systems
- Tools: portable pedagogical board and all-in-a-suitcase training kits

