



SUPSI

Swiss BiPV Competence Centre



Source: ISSOL

Euro space center

Libin-Transinne (B)

Building Details

CONTACTS

| | Name | Website (or e-mail) |
|--------------------------|--|--|
| Owner | IDELUX (Intercommunale pour le développement économique durable du Luxembourg belge) | www.idelux-aive.be |
| Architect | Samyn & Partners | www.samynandpartners.be |
| Energy Consultant | ISSOL | www.issol.eu |
| PV Installer | Deforche Construct n.v.; Ets. A. Heinen s.a. | www.deforche.be ; www.heinen.eu |

BUILDING

| | | | | |
|------------------------|---------------|----------------|-------------|-------|
| Completion year | 1991 Building | 2009 Plant | | |
| Category | New | Renovation | Enlargement | Other |
| Typology | Residential | Administration | Industrial | Sport |
| | Agricultural | Urban | Historical | Other |

Building Energy Performance kWh/m²y -

Description

The Euro Space Center is a science museum and an educational attraction that aimed to promote the diffusion of knowledge concerning space exploration activities and telecommunications in Europe. It is located in Libin-Transinne near the highway connecting Brussels to Luxemburg. The project is an elaborate reconstruction of a former training center near a European Space Agency station, that has transformed it into a business park for aerospace companies. The wooden constructions are located in a kind of "hamlet" used for offices and laboratories. A large parallelepiped greenhouse, that serves as an acoustic barrier to motorway traffic, also acts as a support for a PV plant of 4.500m². The southern slopes of the roof and façade elements are equipped with PV panels for a total surface of 5.060 m².

Acknowledgments



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BiPV Details

LOCATION OF PLANT

| | | | | |
|--------------------|--------------------------------|---------|---------------|------------|
| Roof | Flat roof | Sloped | Curved | Greenhouse |
| Façade | Cladding | Balcony | Greenhouse | Curved |
| Glass | Façade | Roof | Solar shading | Canopy |
| Orientation | South | West | East | North |
| BiPV System | Transparent glassed greenhouse | | | |

ARCHITECTURAL EVALUATION

| | |
|---------------------|------------------|
| Color | Black |
| Transparency | Semi-transparent |
| Frame | Stell structure |

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

| PV CELL | MODULE LAYERING | MODULE FEATURES | DUMMIES |
|-------------|-----------------|-----------------|---------|
| DESCRIPTION | | | |

SPECIFICATION

| | | | |
|--------------------------|------------------------|------------------------------------|-----------|
| Photovoltaic | Monocrystalline | Multicrystalline | Thin Film |
| PV Module | Cells | - | |
| | Module | 3400 ISSOL semitransparent modules | |
| Power | kWp | 300 | |
| Size | m² | 5060 | |
| Energy production | kWh/year | 380000 | |
| Cost | €/m² | - | |