# NÉOULES SOLAR PARK
## Néoules, France

## Project data

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|---|---|
| **System name:** | Néoules |
| **Operator:** | Akuo Energy |
| **Energy utility:** | Electricité de France (EDF) |
| **Grid operator:** | Réseau de Transport d'Electricité (RTE) |
| **Location:** | Néoules, Département Var, France |
| **Completion:** | May 2012 |
| **Completion time:** | 7 months |

## Technical data

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|---|---|
| **Rated system power** | 23.92 MWp |
| **Annual energy yield** | ca 35,924 MWh |
| **Corresponds to power consumption of** | ca 8,981 families** |
| **$CO_2$-savings p.a.** | 3,233 t* |
| **No./type of modules** | 74,736 Sunpower 320 |

| | |
|---|---|
| **Inverter** | 32 x SMA 760-HE 20 |
| **Construction type** | Ground-mounted system |
| **Tilt angle** | 25° |
| **Frame technology** | Enersol Biposte II |
| **Orientation** | South |

* Source: 90 g $CO_2$-savings per kWh, publication of DGEMP (Direction Générale de l'Énergie et des Matières Premières), as of 2007
** Calculation basis: average power consumption of one family: 4,000 kWh

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## Exciting major project at the foot of Massif de la Verrerie

### Challenges for Phoenix Solar

- Grid connection at high voltage level
- Ambitious construction schedule
- Difficult ground conditions

In the Néoules Solar Park, Phoenix Solar has realised one of its largest projects in the world. The customer commissioning the solar park is Akuo Energy, a private group with international operations specialised in the development of industrial power production plants from renewable resources.

During the construction work on the two plants, each of twelve megawatts, Phoenix Solar successfully overcame a wide variety of technical and administrative hurdles.

This included a very tight construction schedule of only seven months to build the solar park and a transformer station as well, as electricity is fed into the grid at high voltage level with 225 kilovolt (kV) instead of otherwise feeding directly into the grid at 20 kV in the medium voltage range, as is customary.

In addition, the topography of the site and extremely rocky terrain necessitated extensive excavation to prepare the surface, including terracing, removing rocks and drilling pilot holes to take the mounting system.



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Solar park with a peak power of around 24 megawatts at the foot of the Massif de la Verrerie