



21.2 MW_p

BRNO AIRPORT

Brno, Czech Republic
Type: Large-scale ground mounted



KEY INFO		TECHNICAL SPECIFICATIONS	
Installed capacity:	21.2 MW_p	Module type:	Tianwei TW225(28)P to TW235
Services provided:	EPC and technology partner	Inverters:	Solaron 500E
Customer:	Private investor	Other technology:	SCADA interface
Location:	Brno airport, Czech Republic	CO ₂ savings:	22,997 t annually
Connected:	October 2010	Production:	18,764,000 kWh annually

Solutions and EPC for a large-scale power plant

In 2010 Photon Energy built and connected the second phase of the Brno airport power plant. With 7.6 MW_p the second of three stages of the power plant was commissioned in October 2010 after a record construction time of only three months.

Photon Energy also delivered the technology (modules, inverters, etc.) for the third phase of the power plant (5.5 MW_p).

The Brno airport project was one of the first projects in Europe to use Solaron 500 Central Inverters by US manufacturer Advanced Energy and at the time the biggest PV power plant running on this model of inverter. In total Photon Energy installed and commissioned 30 central inverters for the second phase of the project.

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During the construction of the second phase it was necessary to adapt the existing first part of the power plant, which was built and commissioned earlier. With more effective technology being used for the construction of the second phase, our technicians faced the challenge of replacing all existing transformer stations to harmonise different outputs.

Given its location next to the main runway of an international airport the construction of the power plant was subject to strict health and safety, as well as strategic security restrictions. Photon Energy was tasked with coordinating the necessary administration with the Civil Aviation Authority of the Czech Republic, to make sure the power plant did not affect the operations of the airport itself.

The location of the modules next to the airport meant that the project planning required making sure the orientation of the modules did not cause a threat to approaching pilots, by calculating sunlight reflection.

The construction itself required special health and safety regulations to be followed, as the construction was carried out just next to the runway and the airports high-security zone.

Key benefits:

- ▶ **High feed-in-tariff secured thanks to short installation time**
- ▶ **Use of brownfield in otherwise unused location**
- ▶ **Long-term investment**