

Case study

Revenue enhancement of 2.3 MWp PV power plant

Radvanice, Czech Republic

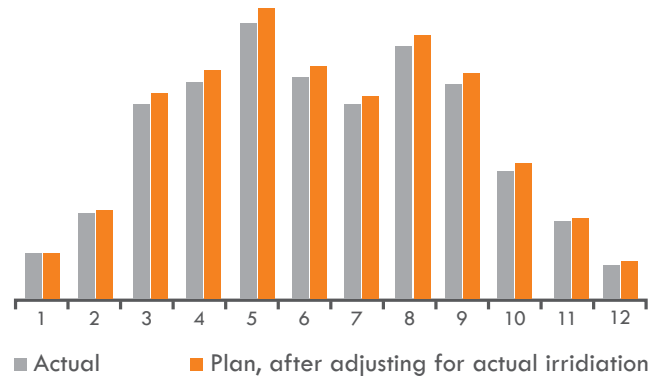
Ground mounted solar power plant

Grid connections date: December 2010

Annual production: 2.031.700 kWh

1. Discovery

- Under-performance versus benchmark when adjusted for actual irradiation levels
- Abnormal losses on the DC side of production



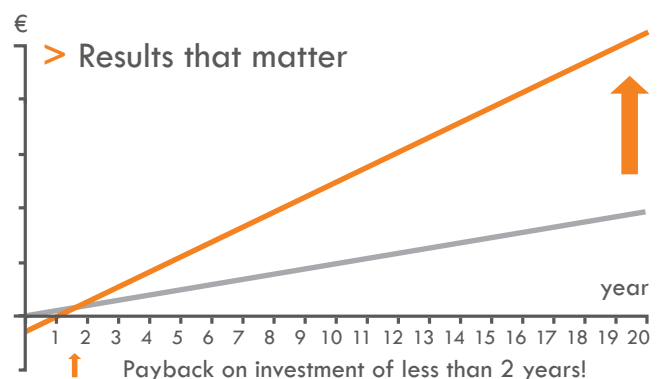
2. Analysis & prognosis

- Extensive performance measurements and thermo analysis of PV plant components undertaken
- Abnormal warming of DC solar cables along main cable routes found
- Under-sizing of cables was causing 6-8% losses, representing €60 000 annually



3. Solution

- Corrective maintenance replaced undersized cable routes
- Cost/benefit analysis and tests undertaken to prove viability of investment
- Capex of €100 000 arranged with bank



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