



Example calculation for office building with direct self-consumption

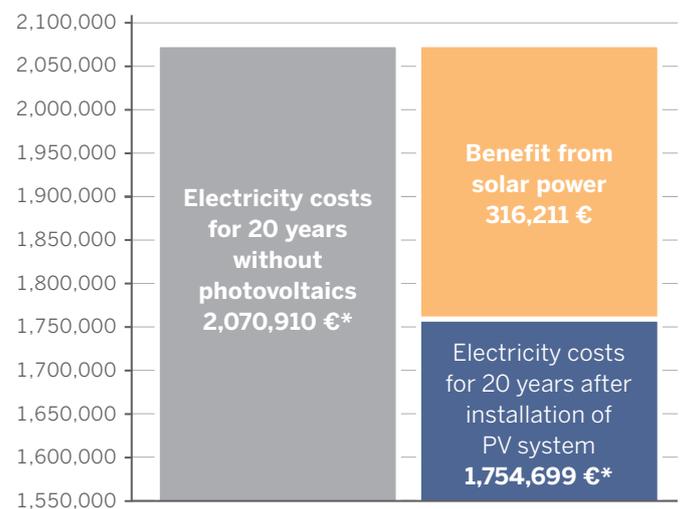
IBC SOLAR headquarters carport

Self-consumption is interesting for commercial businesses. For companies, continuously rising electricity prices represent a critical lack of planning safety for the future. In most cases, they exceed the legal feed-in tariff.

This makes the installation of a photovoltaic system for self-consumption a worthwhile investment and ensures longterm competitiveness.

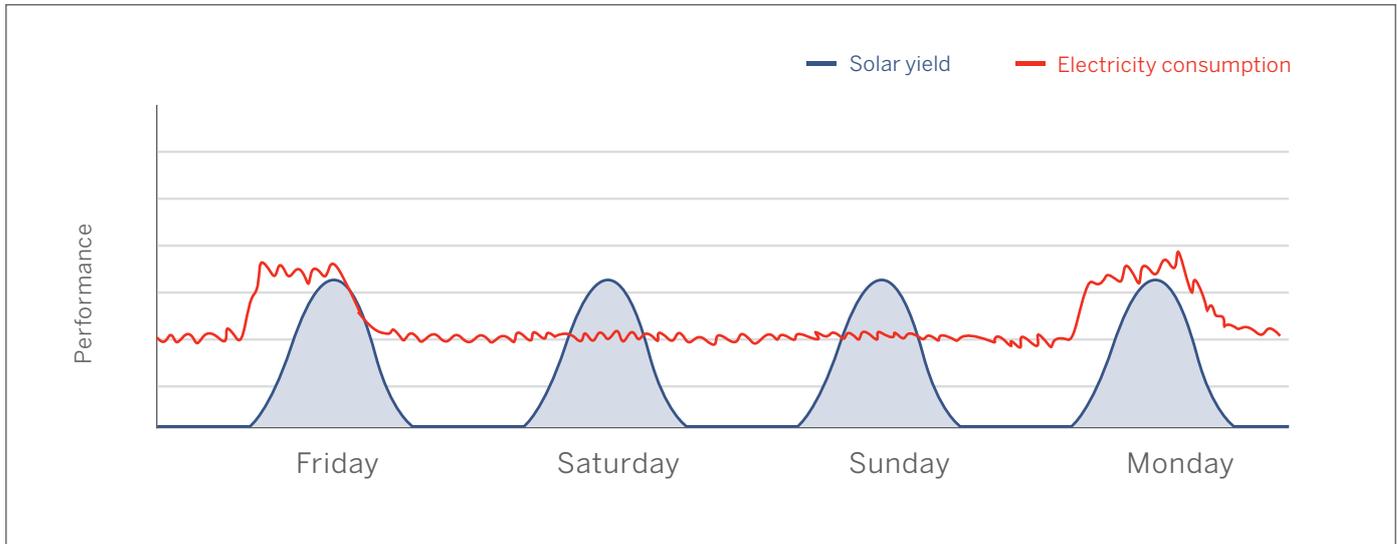
System information

■ Annual energy demand:	410,000 kWh
■ Plant size:	125 kWp
■ Feed-in tariff: (as of: May 2013)	0.1323 €/kWh
■ Photovoltaic system costs:	€ 231,250
■ Electricity cost savings in 20 years compared to reference:	€ 316,211
■ Investment return using internal rate of return method (IRR):	10.1 %
■ Internal consumption rate:	81.7 %
■ Independence rate:	23.7 %



* 3% electricity price increase p.a.

IBC SOLAR headquarters carport



With its carport system for the supply of office rooms, IBC SOLAR achieves a self-consumption rate of more than 80 %, as working hours are mainly during the day – when the sun is also working. Solar yield and power consumption correspond ideally on weekdays. A great deal of electricity is also needed at the weekends for the supply of server rooms, which additionally supports the high level of self-consumption.

For installing a storage system, the existing carport system does not produce enough energy. Its size is limited by the parking space area. If more area was available, the independence from rising electricity prices could be increased even further by a storage solution.

