

3 MW: Itnal, India

The Conergy project in Itnal is one of the earliest solar plants built in India. But far more important it is a project that is changing the lives of the local population. They use the new, stable supply of electricity not only for their households, but also to operate the irrigation pumps for their fields which are the basis of their entire income.

Helping people - electrifying India

The power supply in Itnal, a small city situated in the province of Karnataka, was very limited in the past. Only 120 households had access to electricity. Power blackouts were commonplace. And the residents were only able to operate the irrigation pumps for their fields and gardens at most three to four hours a day – a situation which had to be changed in order to improve the lives of the rural population.

The rural population benefits from the energy of sun

The new solar plant considerably contributes to the power supply of Itnal. Built upon the order of the local utility KPCL, 13,000 solar modules produce over 4,000 megawatt hours of clean energy each year. Now over 80% of the local residents have access to reliable and affordable energy – not just in their households but above all on their farms. With the help of the power plant 400 water pumps can operate daily without a break and thus 1,198 acres of farmland can be irrigated and used. Further agricultural growth is now possible which will improve the local standard of living even more.

The “National Solar Mission” addresses rising energy demand in tropical regions like India, where the sun shines longer and stronger, solar energy has incredible potential. The local government has also recognized this and in 2009 initiated its

“National Solar Mission” project which promotes ecologically sustainable growth through renewable energies. India intends to generate more than 20 gigawatts of energy from the sun by 2020 with specific programs to promote island solutions but also with grid-connected solar energy. For the ambitious, Indian energy market the new solar plant is a genuine milestone to answer its continuously rising demand. For Conergy, it is the continuation of its success story in Asia.



Project Highlights

Date	April 2010
Location	Itnal, India
Installed Capacity	3 MWp
MWh produced annually	4,000 MWh annually
Modules	13,000 crystalline modules
Inverters	Grid connect inverters
Mounting System	Ground mounted fixed axis systems
Size of Plant	70,010 Square meters
CO ₂ emissions saved	2,000 Tons / year

