



## ComSolar: Status of Solar Thermal Activities KI-RE: Status / background



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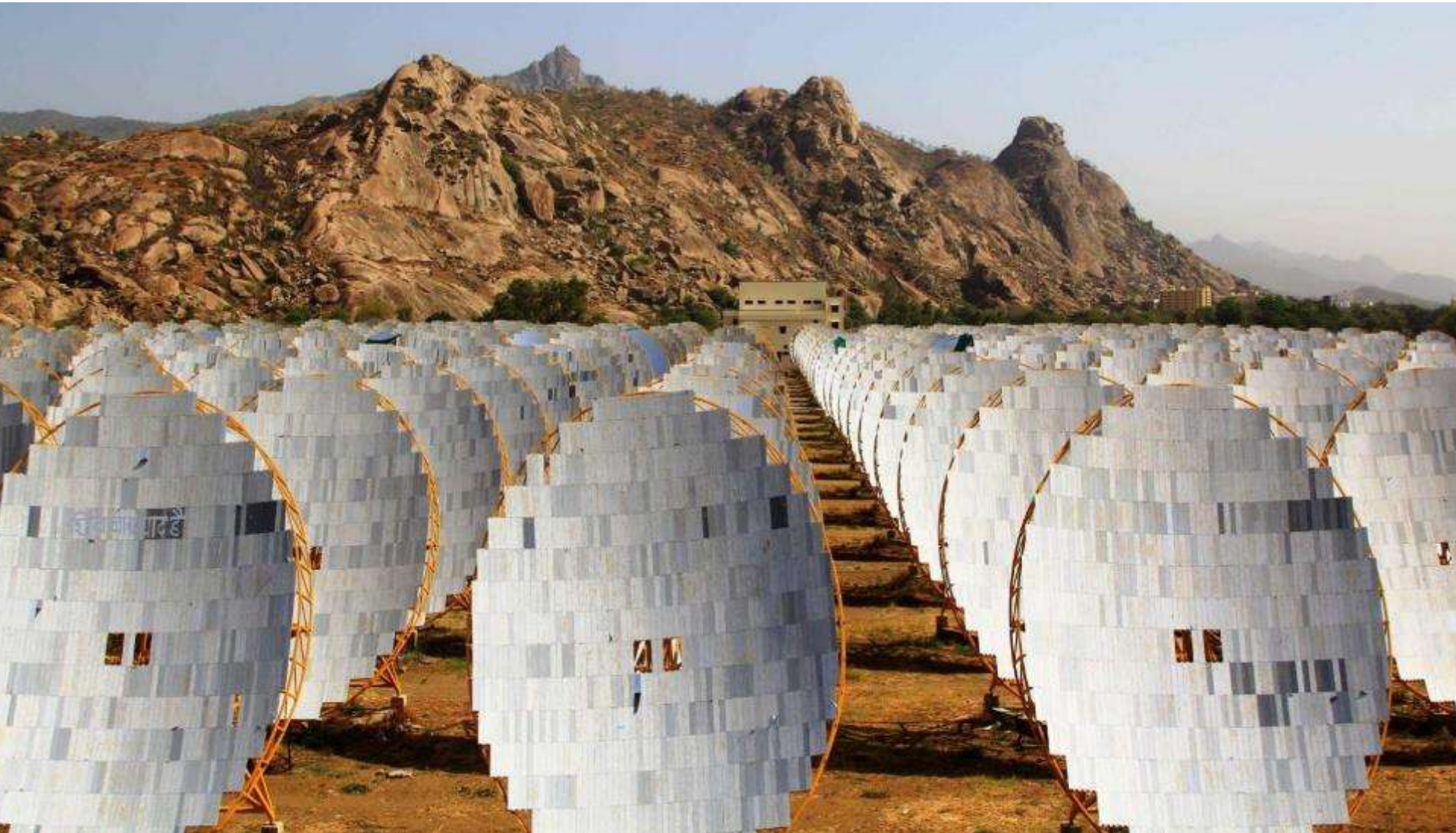
# ComSolar PV Rooftop & more: [www.comsolar.in](http://www.comsolar.in)







# ComSolar – Solar Thermal





# 1 MW<sub>el</sub> (3.5 MW<sub>th</sub>) Solar Thermal Power Plant: **IndiaOne**

- 1 MW<sub>el</sub> innovative solar plant using 770 60 m<sup>2</sup> Scheffler Concentrating dish and 16 hour thermal storage technology – designed for **24 x 7 operation**
- ComSolar is currently implementing BMUB/IKI contribution phase II to the project: purchase & delivery of goods worth 2.8 Mio EUR, plus advisory services
- Major tenders published / purchasing in progress
- Problematic currency exchange rate development
- Implementation agreement addendum pending (triggers import / taxes issues)



**IndiaOne**







## Solar Thermal Power Plant - IndiaOne: Impressions





## Solar water heating for industrial processes (SHIP): **SoPro India**

- Generation of **reliable information on key performance parameters (e.g. fuel saved)** by low and mid temperature SWHS for industries through scientificall monitoring systems
- **Marketing platform to showcase advantages, best practices**, case studies, address performance and quality related issues **online** : <http://soproindia.in>
- **2 scientific monitoring systems** installed and data collected through **Fraunhofer ISE**
- Workshops conducted, case studies published, visits/study on more than 30 plants







## Low Cost Solar Air heating systems: **SolLad**

- Implementation of a solar air heating system for high altitude region Ladakh, Himalaya
- **Economic, environment and health friendly heating solution** for region with >7 month sub zero temperatures.
- Simple and economic technology with **opportunities for local manufacturing**
- First **2 demonstration systems implemented** and under monitoring
- **Delay** due to positions of local stakeholders and pending IA
- **Solution** with MNRE and Kargil found





## Solar Air heating systems – SolLad: Impressions







# KI-RE





# Climate protection through Integration of Renewables Energies into the Indian Grid (**KI-RE**)

**Commissioning Ministry:** BMUB (IKI)

**Partner Ministry:** MNRE

**Project Duration:** 12/2014 to 01/17

**Focus:** Supporting activities related to the expansion of decentralized PV systems and their integration into urban structures and the distribution / LV Grid (ComSolar spin-off)







## KI-RE: Overview

### **1st component** - Model of Energy System

Detailed modelling of a energy system based on high share of fluctuating renewable energies assessing technical feasibility and macro economic benefits

### **2nd component** - Promotion and integration of solar energy in urban spaces

- **Continuation of ComSolar expert team** with focus on Rooftop PV & LV grid issues
- **Facilitation and grid integration of decentralised PV plants**
- **Integrated concept** to promote distributed PV

### **Status**

Commissioned, Project set-up, Stakeholder consultations, TOR development



# Thank you for your attention!

## ComSolar

COMMERCIALIZATION OF SOLAR ENERGY  
IN URBAN AND INDUSTRIAL AREAS

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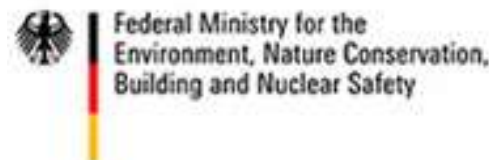
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