



STEAG Energy Services

Renewable Energies

The Renewable Energies department of STEAG Energy Services is committed to bringing its expertise in Consultancy, Plant Development and Operation & Maintenance services including the latest software solutions to ensure a green and secure energy future.

STEAG has decades of experience worldwide, across a wide array of renewable technologies including Wind, Solar (both PV & CSP), Biomass, Geothermal and Mine Gas.

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With over 130 renewable energy power plants across the world, STEAG is committed to clean, green and safe energy.

• Solar

- 50 MW – CSP Plant, Arenales, Spain
- 300 kW – Roof-top Solar PV Plant, New Delhi, India

• Wind

- 108 MW – Crucea North Wind Farm Project, Romania
- 66 MW – Suloğlu Wind Farm Project (under development), Turkey
- 43 MW – Ullersdorf Wind Farm Project, Germany
- 10 MW – Woelfling-lès-Sarreguemines Wind Farm Project, France

• Biomass

11 plants with installed capacity of 66 MW_e/146 MW_{th}

• Mine Gas

115 plants with installed capacity of 175 MW_e/111 MW_{th}

• Geothermal

3 plants with installed heat capacity of 76 MW_{th}

Consultancy projects

- ACME Tele Power Ltd: Detailed Project Reports (DPR) – Solar Thermal Power (50 MW)
- Utthan: Preparation of Feasibility Report – Solar Power Project (1 MW)
- Avantha Power: Preparation of DPR for Solar PV Plant (5 MW)
- NTPC Ltd: Engineering Services for Anta Solar Project
- IEDCL: Solar and Biomass Power Project (12 MW)
- Lanco Solar Energy Pvt. Ltd: DPRs for solar power projects
- MEIL Green Power Ltd: Preparation of Bid Document on EPC basis as per ICB guidelines for solar thermal power project (50 MW)
- North Eastern Electric Power Corporation Ltd. (NEEPCO): 6 Feasibility Reports for On-Grid Solar Power Plants
- Aurum Renewable Energy Pvt. Ltd: Technical Due Diligence for Supplier Proposal (Novatec Germany)
- Bihar Renewable Energy Development Agency (BREDA): 13 DPRs for Solar PV projects
- Pan Asia Renewables Pvt. Ltd: Consultancy Services for carrying out Technical Due Diligence of Renewable Energy Projects
- Ministry of New and Renewable Energy (MNRE)/UNDP: Consultancy Assignment on Biomass - Solar Thermal hybrid technology for power generation.
- IOCL, New Delhi: Consultancy Services for setting up of 100 KW - 2.0 MW scale Solar PV Power Plants

Software tools

• 50 MW Solar thermal power plant simulator

STEAG has developed a generic 50 MW Solar Thermal (Parabolic Trough) Simulator which can be used for operator training or as a test bed for understanding plant dynamics.

• EBSILON® Solar – The Solar module of EBSILON®

STEAG offers services for modelling of complete Solar Thermal power plants using its state of the art software EBSILON® *Professional*. EBSILON® is in use in over 100 units worldwide in different offline and online applications.