

A Not-For-Profit JV Company of



Technology Development Board  
Department of Science & Technology  
Government of India



Confederation of  
Indian Industry

DEVELOPMENT

TECHNOLOGY

PROTOTYPE

Annual Report  
2017-18

**FOSTERING  
INNOVATION**  
FOR SUSTAINABLE GROWTH



GLOBAL  
INNOVATION &  
TECHNOLOGY  
ALLIANCE

**PROJECT TITLE****Decentralized Solar DC Power – A Game Changer For India****PROJECT BRIEF**

Development of a high efficiency Inverter less solar DC 48 V power solution targeted for the next generation green apartment & offices, which envisages to reduce AC to DC conversion losses of approx. 40% within the system. A Micro Grid (Solar DC Microgrid) has been developed to support household appliances with an overall saving of 40% - 60% compared to conventional systems

**ELEMENTS OF SUCCESS**

Uninterrupted, Reliable, affordable energy solution to rural area, home, schools etc. with energy - efficient solar based DC Inverter less Controller reducing power losses by 45%

**PROJECT BUDGET****INR 3,97,76,347****FUNDING SUPPORT****INR 39,77,634****PROJECT LEAD**

Cygni Energy Private Limited, Hyderabad



*Solar inverter less DC controller*

**PROJECT IMPACT****45% REDUCTION**

in power loss, upto 50% energy and cost saving

**FOCUS SECTOR**

Cleantech

**ALIGNMENT WITH NATIONAL MISSION**

National Solar Mission



Make in India

# OUR PROJECT LEADS

- Abilities India Pistons & Rings Ltd., Ghaziabad
- Advance Tech India Pvt Ltd., Chandigarh
- Agastya Buoyant Pvt Ltd., Kolkata
- Allied Engineering Works Pvt Ltd., Delhi
- Ampere Vehicles Pvt Ltd., Coimbatore
- Arsh Biotech Pvt Ltd., Delhi
- Bharat Forge Ltd., Pune
- Bharat Petroleum Corporation Ltd., Mumbai
- Bhat BioTech India Pvt Ltd., Bangalore
- Biomedix Optotechnic & Devices Ltd., Bangalore
- Cast Craft Pvt Ltd., Bangalore
- Cadila Pharmaceuticals Ltd., Ahmedabad
- Caliban Software Solutions Pvt Ltd., Bangalore
- Chogen Powers Pvt Ltd., Secunderabad
- Cygni Energy Pvt Ltd., Hyderabad
- Durable Flanges Pvt Ltd., Faridabad
- Elion Technologies & Consulting Pvt Ltd., New Delhi
- Enkindle Technologies Pvt Ltd., Bangalore
- East Coast Magnets Pvt Ltd., Kolkata
- Freespanz Design Build Pvt Ltd., Mumbai
- Gangabishan Bhikulal Investment and Trading Ltd. (GBIT), Jalna
- Greenenvironment Innovation & Marketing India Pvt Ltd., Chennai
- Gupta Continental Pvt Ltd., Agra
- Horizon Industrial Products Pvt Ltd., New Delhi
- Inno Nano Research Pvt Ltd., Chennai
- Industrial Processeors & Metalliers Pvt Ltd., Delhi
- Inficold India Pvt Ltd., Ghaziabad
- Jasper Concepts, Bangalore
- Jain Irrigation Systems Ltd. (JISL), Jalgaon
- Kaynes Technology India Pvt Ltd., Mysore
- Larsen & Toubro (L&T) Technology Services Ltd., Bangalore
- Larsen & Toubro (L&T) Ltd., Mumbai
- Logic Fruit Technologies Pvt Ltd., Gurgaon
- Manipal Technologies Ltd. (MTL), Manipal
- Nano Kernel Ltd., Bangalore
- Nanosniff Technologies Pvt Ltd., Mumbai
- Nice Industries, Solan, HP
- Oxive Environmental Managment Pvt Ltd., Vadodara
- Pelican Rotoflex Pvt Ltd., Rajkot
- Plenar Health Solutions Pvt Ltd., Ahmedabad
- Padmaseetha Technologies Pvt Ltd., Chennai
- PTC Industries Ltd., Lucknow
- Probe Lab, Calicut
- Remidio Innovative Solutions Pvt Ltd., Bangalore
- Samtel Avionics Ltd., Delhi
- Sapien Biosciences, Hyderabad
- Sainergy Fuel Cell India Pvt Ltd., Chennai
- Schemex Consultants Pvt Ltd., Kolkata
- SFPL Crop Life Science Pvt Ltd., Jalna
- Shilpa Innovation, Howrah
- Transtime Industries, New Delhi
- TATA Motors Ltd., Pune
- UCAL Fuel Systems Ltd., Chennai
- Vishwadeep Pressparts Pvt Ltd., Pune