



**Deeya Energy**

**Clean + Green**



next-generation  
energy storage platform

**CLEAN TECH FORUM**



ELEMENT PARTNERS



- Lowest per capita electricity consumption
  - 612 kW / capita as compared to world average of 2429 kW / capita and USA average of 13066 kW/ capita.
  - GDP growth 8 to 10% year over year.
  - Almost 57% of rural India yet to be electrified.
  - More critically roll out of wireless communication infrastructure in rural India is in progress.
    - These require 24x7 electricity to operate

- Large centralised power generation which includes:
  - Nuclear power generation
  - Hydro electric power plants
  - Thermal power plant
  - Implementation of Renewable energy sources.

- Large geographic area to be covered.
- Long time required for deployment.
- Huge capital cost requirement.

- Micro Grid
- Local power generation plants.
- Implementation of Renewable source of energy for critical wireless communication infrastructure.

- All of these alternative solutions require :
  - Efficient energy storage platform
  - Environment friendly energy solution

- **Improved Asset Utilization**

- Maximize ROI in electrical power generation capacity by reducing lost value in excess capacity



- **Energy Storage System with power conditioning**

- Electricity Input
  - AC input (Wind, Diesel)
  - DC input (Solar, Diesel)
- Load management
  - AC output (Appliances, lighting)
  - DC output (Telecom, lighting, appliances)



- DG



- Fully loading the DG when it is running improves fuel efficiency and reduces engine hours. This reduces maintenance costs & increases lifespan.

- Solar



- Matching dispatch power to the load without oversizing the solar array or using a dump-resistor

- Wind



- Stabilize wind farm output to enable greater penetration into the generation mix.
- Daily generation-shifting from early morning to peak afternoon load periods

# Introducing the ESP-6000

*The Ideal Storage Platform*

- ✓ 2.3kW<sub>peak</sub> & 6kWh Performance
- ✓ -5 to 50 deg C operation ambient
- ✓ 3-hour charge rate
- ✓ 100% Depth of discharge
- ✓ 65% total efficiency 48V DC in and out
- ✓ 5000 cycles life
- ✓ 1 to 2 yr payback
- ✓ Reusable electrolyte, fully recyclable
- ✓ Non flammable, environmentally friendly



*Revolutionary energy storage and management solutions  
**for**  
industrial and consumer applications  
**that**  
maximizes power utilization  
**and**  
significantly reduces operating expenses  
**in**  
an environmentally friendly way  
**through**  
breakthrough technological innovations*

Deeya Energy is a Silicon Valley technology company developing Energy Storage Platform (ESP) based on revolutionary L-Cell technologies for global markets.

Head Quarters and R&D center located in Fremont, California.

Deeya's Indian Headquarters is located in Gurgaon, outside of New Delhi

[www.deeyaenergy.com](http://www.deeyaenergy.com)

