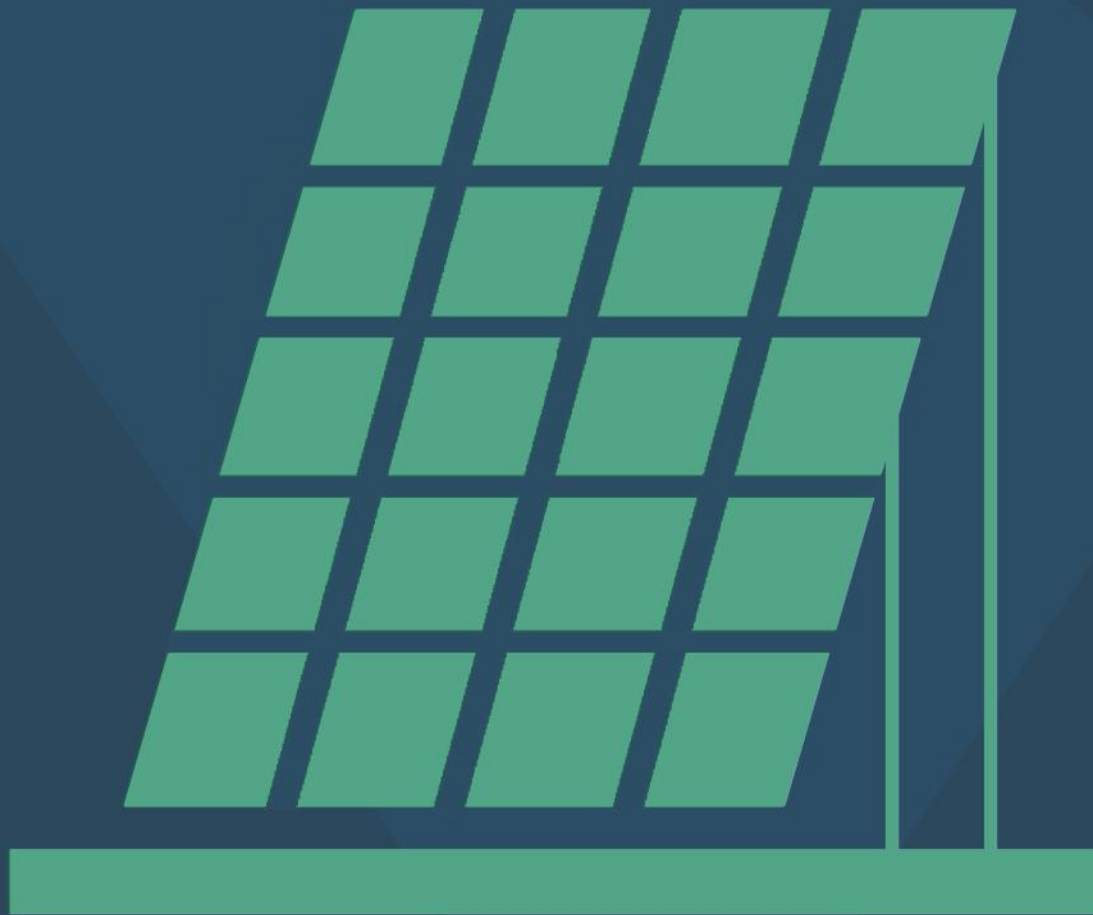


# The Indian Revolution in Power

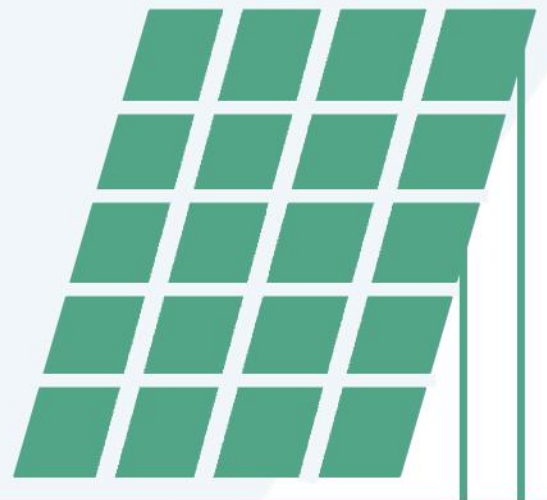
## Floating Solar Technology



# About Us

Vatsaa Energy Private Limited(**VEPL**) is a leading Indian company in renewable energy sector with a wide range of new technologies and services. The dedication and passion for innovation make VEPL one of the very few organizations in the world that is capable of constructing large floating solar power plants in dams, lakes and even in deep oceans. Now the company is implementing floating power plant projects for various government and non-government agencies in India.

Our first 10KWp floating solar power plant was inaugurated at Banasurasagar dam reservoir in Kerala by the honourable minister for Energy of the State of Kerala on 21<sup>st</sup> January 2016. This power plant has been made for the Kerala State Electricity Board Ltd. (KSEBL) and is first one of its kind in the world.



# Services



## Power Plant Design

we provide design consultancy services for floating and land based solar power plants of any scale

## Project Execution

implementing projects according to the schedule meeting all project management standards



## Supervision

supervision for power producing companies & EPC companies to erect their floating power plants

## Operation & Maintenance

helps companies to keep their power plants 100% operational always



## Training

training programs for our client organization's professionals to ensure efficient & safe operation

# The Technology

VEPL's indigenous world class technology ensures highly efficient solution for floating solar power houses in any sort of water bodies.

## ALBA

Best solution for shallow water bodies.

- Easy Installation
- Stable platform
- Simple mooring
- Resistant to saline water

## ENSATA

Specially designed for deep and Rough reservoirs.

- Custom design
- Extra stability
- Sophisticated mooring
- Resistant to waves & wind

## Technical Specification

Material	HDPE/Fiber glass/Ferro cement concrete
Area/ MW	10000 m <sup>2</sup>
Effective utility space	> 4000 m <sup>2</sup> / MW
Factor of safety	> 2
Wind Speed	150 KM/HR
Module type	Polycrystalline
Type of mounting	Fixed Tilt
Inverter	Central/string
Power plant O/P	11KV, 3 phase, AC
Mooring	Automatic level adjustment system

# Features



Designed to **maximize natural cooling** and harvest optimum sun power

**Walkways** to reach each and every corner, designed cleverly based on scientific standing calculations



**Most efficient and cost effective** indigenous **mooring mechanisms** for accommodating water level variations

**Less dust accumulation** on the solar panel surface, no shading



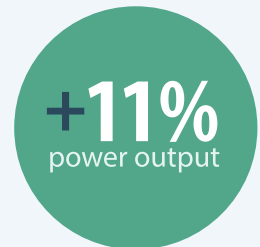
**Reducing erosion** of reservoir banks by eliminating heavy waves

# Benefits



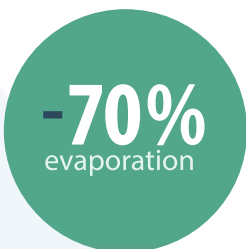
**Highly stable** in conditions like heavy rain, waves and 150 KM/H wind

**High power output** compared to land based and rooftop solar installation



The special design and manufacturing methods **reduce the cost**

**No hazard** to aquatic eco system and **environment friendly**



**Minimize water evaporation** loss and conserves water



# Recent Project

in Banasurasagar Dam, Kerala

## Project Description

Location	Banasurasagar Dam, Kerala
Ownership	KSEB Ltd
Installed by	Vatsaa Energy Pvt. Ltd
Capacity	10Kwp
Panel Tilt	11°
Maximum depth	40m
Water Level Variation	30m
Distance from Land	200m

Green Power For Ever



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