



SJ Engineers Renewable Energy P Ltd



The Developer's Perspective - India

June 2018

Green Energy For Life

# The Developer's Perspective - India

- **Opportunities for Floating Solar in India**
- **Challenges faced**
- **Alternatives – Opportunities**
- **About SJ Engineers Renewable Energy P Ltd**



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## Opportunities for Floating Solar in India

- ◆ **Abundance of solar energy in India with 300 days of sunshine**
- ◆ **Government of India target for Solar is 200GW installed by 2022**
- ◆ **Huge reservoirs are owned by the Govt Of India. 25,600 Km<sup>2</sup> with a possible installation base for 300GW covering 30% of the reservoirs' area!!**
- ◆ **Huge prospect of creating Micro Grids in Villages by installing Floating Solar on ponds, thereby helping in water conservation**



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## Challenges in India

- ◆ **Floating Solar compared to Ground Mount Systems**
- ◆ **Transmission Line & Evacuation issues., recent 150MW (50MW X 3 in state of Uttar Pradesh calls for a transmission line to be done for 30Kms)**
- ◆ **Super Low Tariff of 2.5 INR (4.5 Cents) per kWh, based on ground mounted systems, resulting in minimalistic IRR. This makes funding difficult and offers no room for new technological development, which is very necessary for floating solar.**
- ◆ **Utility Payment issues**



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## Alternative – Opportunities

- ◆ **Floating Solar for Private Power Plants, Cement Plant Cooling Ponds, Private Reservoirs under Captive Power Generation**
- ◆ **Installation of Floating Solar within premises helps Plants to fulfill RPO (Renewable Energy Obligations)**
- ◆ **Captive Floating Solar Plants saves Utility charges, helps in water conservation**
- ◆ **Revenue more robust due to prompt payment.**





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Concept to Commissioning Solutions for Solar PV



SJ Engineers offers turnkey solutions with PPA's from the Private Sector



## Proposed Site in Thermal Plant – 25MW





Tracker Project – 2.1M units/year







**Dindigul 15MW Solar Park**



# Thank You

- For further queries/ information/ enquiries please contact

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