

**Harnessing the Power of Elements.**



**"EMPOWERING THE FUTURE"**

 **CONCEPT** POWERTECH PVT. LTD.

# Solar Power

**Self Reliance:** The sun has been around for billions of years and it will shine for billions more to come. The more sunlight harnessed by the system, the less electricity you need from your utility supplier.

**It's 100% clean and renewable:** Using sun as source of power does not harm the environment. Conventional fuels like coal, oil or gas have long lasting impact on environment.

**Convenience of Location:** It has the ability to harness electricity in remote locations that are not linked to a national grid.

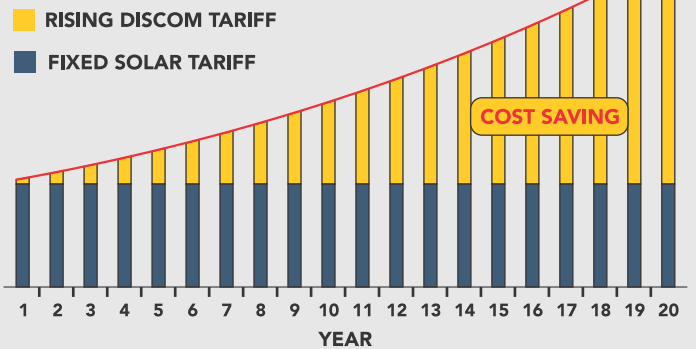
**It comes with incentives:** Governments worldwide are promoting use of renewable clean energy by giving incentives to users and manufacturers.



## Features:

- Your Own Generating Source
- Energy Independence
- Low Operational cost
- Protection Against Future Price Increase of Utility Power Supplier
- Sunlight is free to all
- Zero cost for fuel
- Generate power when demand is high
- Limit Carbon Emission
- Achieve Corporate Social Responsibility
- 100% Clean Energy
- Cost of Solar Power is Lower than ever
- Cash in Tax benefits
- Great savings in Diesel consumption

### Discom Tariff Vs Solar Tariff



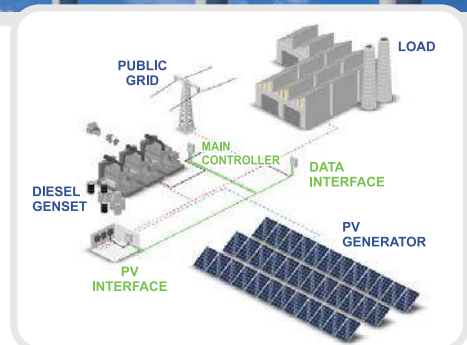
## Installations:

- Factory Roofs
- Commercial Building
- RoofsHotels
- Parking Bays

### A typical 100 kW

#### On-site Solar Power Plant Requires:

- 1,000 to 1,200 Sq. m. area
- Shadow free space
- Roof Suitable for Panel Installation
- Sunlight





## Hydroelectric Power

For over a century, hydroelectric power has been used to generate electricity from falling water from dams and rivers. Hydroelectric power is considered to be a clean, renewable source of energy, emitting a very low level of greenhouse gases when compared to fossil fuel plants. Hydro power has a low operating cost, once installed, and can be highly automated. An additional benefit is that the power is generally available on demand since the flow of water can be controlled. We offer water to wire solutions for electro-mechanical systems which includes turbines, Generators, Transformers, Inlet Valves, Electrical Control & Protection Panels, SCADA System etc.

CONCEPT has successfully executed 6 projects in Indonesia, totalling more than 40MW power output.

CONCEPT PowerTech Pvt. Ltd. has been established specially to focus on Power Sector business. We are an Engineering and Project Management Company with focus on Power Plants, Power Transmission & Distribution Systems and Bulk Material Handling. Our vast technical expertise comes from our manpower that has work experience on various power projects across the globe.

Today it is imperative that project developers possess vision and knowledge that spans the entire scope and life of a potential project. This includes project feasibility study, detailed engineering knowledge and awareness of latest technology, selection of most suitable equipment manufacturers, long term maintenance and operational issues of the equipment chosen. We constantly work within the industry and staying in tune with changing business conditions. We are frequently called upon to provide strategic advice planning, to manage & analyze the development of effective plans to support our clients to maximize the benefit of their generation assets.

We offer complete flexibility as best suited for our clients.

Turbines	Head (m)	Output kW
Pelton	150-710	50-20,000
Francis	15-250	50-20,000
Turgo	20-210	10-5000
Kaplan	3-30	500-10,000

(incl Semi Kaplan and Propeller)



Inlet Valves	Size (mm)
Butterfly Valve	300-4000
Spherical Valve	400-1200
Hydro Generators	Capacity (kW)
Synch / Induction LT	10-1,000
Synchronous HT	400-10,000
Induction HT	400-5000
Switchgears	Up to 36 kV

## Water & Waste Water Projects

We provide integrated system solutions for water, waste water treatment & recycle, sea water desalination, high dissolved solid reject stream evaporation & complete zero liquid discharge systems for myriad applications & industries. The treated water is efficiently recovered with minimal rejects & sludge and used in the process, cooling tower make up, boiler feed etc.



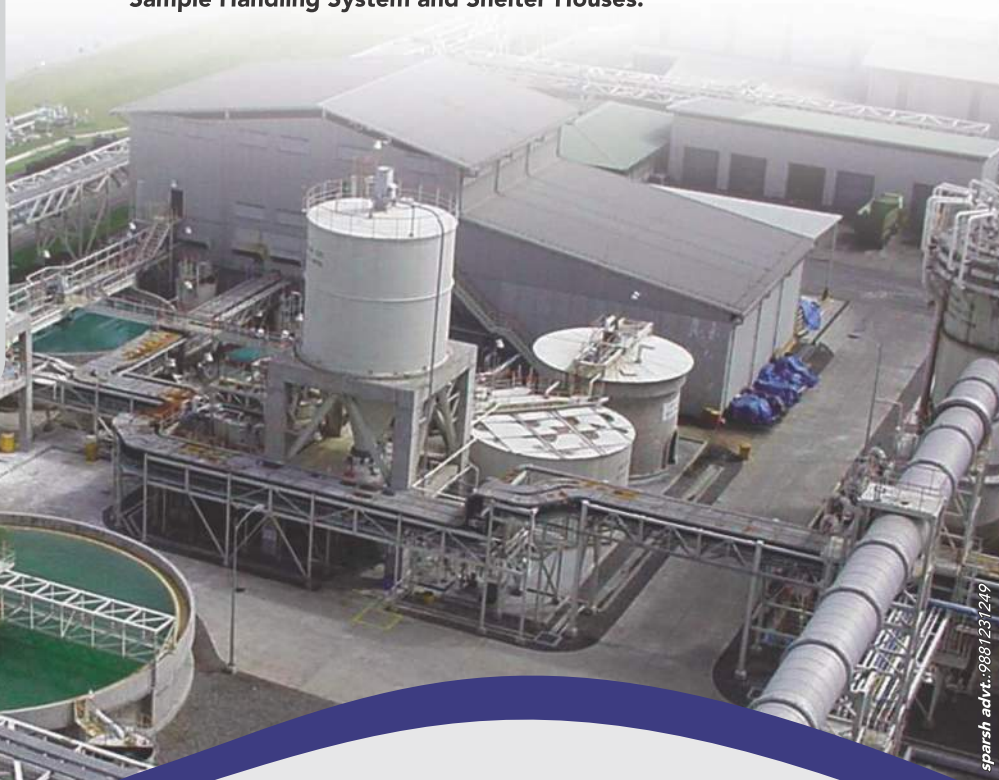
### Membrane Systems:

Ultra Filtration, Reverse Osmosis, Hybrid Membrane Systems for raw water and waste water recycling & Sea Water Desalination.

We provide high quality and precise analytical instrumentation, Sample Handling System and Shelter Houses.



Steam and Water Analysis System (SWAS) & Chemical Feed Package for Boiler & Continuous Emission Monitoring System (CEMS) for Power Plants.



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