

INDAR SUBMERSIBLE PUMP SETS

vs. Vertical Turbine Pumps






Advantages of our system

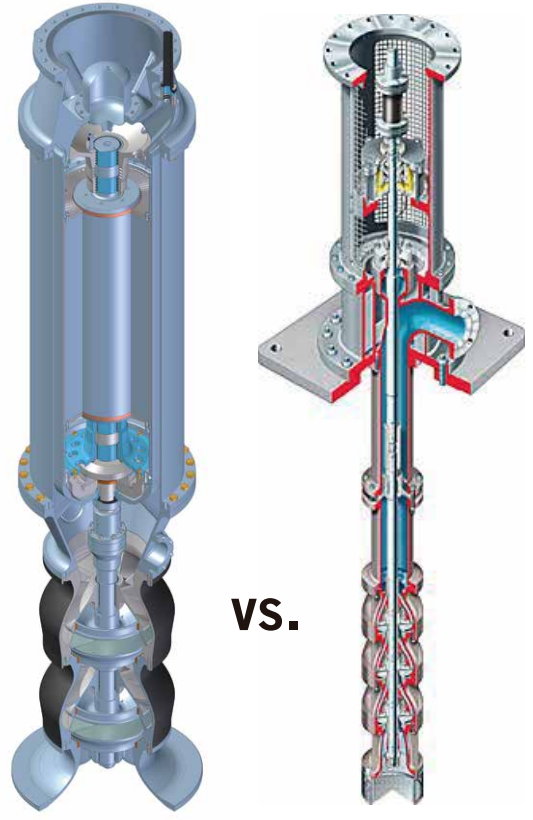


Water reservoir levels do not reach to original capacity since years due to the combination of drought and increased water demand. Depletion of aquifers makes necessary to drill down in order to reach deep water reservoirs.

This picture makes **EXISTING VERTICAL TURBINE PUMP SOLUTIONS UNVIABLE**: Long shaft pumps with surface motor are not suitable to reach new depths.

Given this situation, **SUBMERSIBLE PUMP SETS** are presented like a **good alternative**. The water will be pumped to the surface with several more hydraulic and **TECHNICAL ADVANTAGES** compared to Vertical Turbine Pumps.

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1 Compact Solution
 - Less Space ●
 - Less Cost of Installation ●
 - Easy Alignment ●
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2 Direct Transmission of Power & Efficiency Improvement vs. Vertical Turbine Pumps
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3 Maintenance Free
- 
4 Very Low Noise Levels
 - Perfect Solution Inside Cities ●
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5 Avoids Flooding Risks



Indar Submersible Pump

Vertical Turbine Pump

The **INDAR SUBMERSIBLE** water pump sets are made of a multistage centrifugal pump up directly coupled to an **SUBMERSIBLE** type electric motor To face situations where the dynamic water level is so low that water either will not reach the suction strainer of a standard submersible execution, INDAR has developed submersible pump sets with the motor above the pump and suction intake at the very bottom.

Motor Output (kW)	Flow (l/s)	Voltage (V)	IP	Weight (Kg)	Height (mm)	Head (m)	Type	Application
up to 3000	14-2250	13800	68	18510	6810	30-1000	Semiaxial, submersible motor and pump	Clean water pumping

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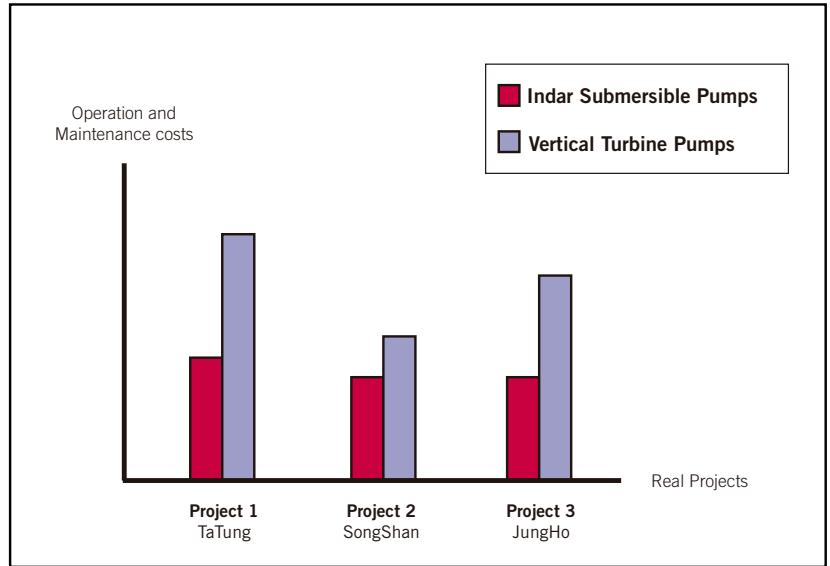


Effective Return of Investment

(Roi)



Operation & Maintenance costs
45% less
 compared to
 Vertical Turbine Pumps



	Project 1 TaTung	Project 2 SongShan	Project 3 JungHo
Efficiency	4.5%	5.5%	11%

Source: Taipei water department

7% better total Efficiency*
 with Indar Submersible Pump sets
 compared to
 Vertical turbine Pumps

* Based on real figures

