

CASE STUDY

TAIPEI WATER DEPARTMENT
JUNG HO Pumping Station (TAIWAN)

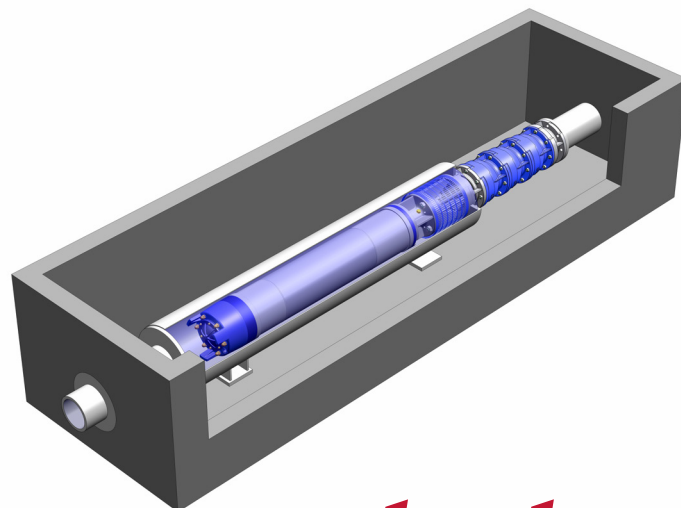


INDAR SP UGP

There are 2 Indar submersible pump motor sets in horizontal configuration, including a cooling shroud, flanged to the piping for boosting water. JungHo pumping station is managed by Taipei

Water Department (TWD) who is responsible for supplying some 2.5 million cubic meters of high-quality potable water a day to over 3.8 million users in the Taipei metropolis.

Indar Ingeteam Group			
INDAR SP UGP		Pump: UGP-4410-01-PH	
Hm: 30m		Q: 5208m ³ /h	
Motor: ML-70-8/120			
P: 597 / 800 (kW/HP)		V: 3300V	
n: 885 (rpm)	I: 149 (A)	f: 60 (Hz)	
N: 103310	max.submergence 200		
			2010
www.indar.net water@ingeteam.com			Tel.: 00 34 943 02 82 00
			CE



Indar
Ingeteam Group

After the success at TaTung pumping station with Indar submersible sets, TWD wished to extend it to JungHo pumping station.



The space required by horizontal pumping sets was less than the vertical type sets needed. And the old motors generated a lot of noise and high heat. Indar submersible sets in horizontal configuration between pipes solved all these inconveniences.

Again, Indar supplied environmentally friendly sets, lighter in weight, compact design ready to be installed (no alignment required), less wear and easier maintenance, less space required, less costly installation (geometry and reduced diameters), IP68 (no risk of electrical short circuit), self-lubricated and cooled, etc.



In this installation, the sets had to fulfil very strict operating requirements and their design had to be suitable for the existing electrical installation. Three duty points with a minimum hydraulic efficiency had to be guaranteed and other technical requirements were mandatory.

In less than 6 months, Indar designed, manufactured and delivered 2 horizontal submersible sets together with other 5 low suction units in 2010.



TWD proved energy saving of 12% in total efficiency of Indar sets compared with the vertical shaft turbines and also significant operation cost and maintenance saving.