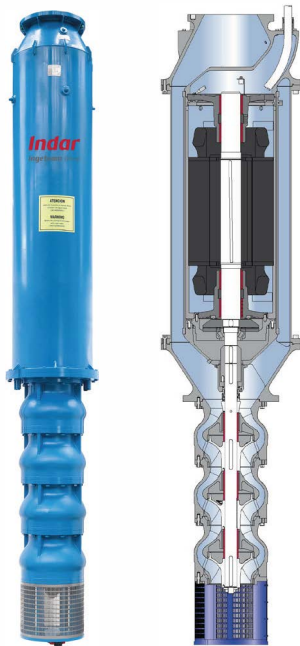


CASE STUDY

TAIPEI WATER DEPARTMENT
SONG SHAN Pumping Station (TAIWAN)



INDAR SP UGP

There are 6 low suction submersible pump motor sets manufactured by Indar installed and operating at SongShan pumping station. This installation 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-M-3410-01 | |
| Hm: 45m | | Q: 3000m ³ /h | |
| Motor: ML-70-6/080-M | | | |
| P: 523 / 700 | | (kW/HP) | V: 3300V |
| n: 1176 | (rpm) | I: 127 | (A) f: 60 (Hz) |
| N: 102410 | | max.submergence | 200 |
| | | 2010 | |
| www.indar.net indarmh@indar.ingeteam.com Tel.: 00 34 943 02 82 00 | | | CE |



Indar
Ingeteam Group

The existing pumping station, located in a populated area of Taipei City, included submersible sewage pumps from FLYGT. The building generated significant vibration levels when the pumps were running.

After the success at TaTung pumping station with Indar low suction sets, TWD wished to extend it to SongShan pumping station.



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 low suction 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 6 low suction units that were supplied in 2010.

TWD proved energy saving of 5% in total efficiency of Indar sets compared with the vertical shaft turbines and also significant operation cost and maintenance saving.

