

# A Perfect Balance

## UNITED ARAB EMIRATES

Pedrollo Group tells *Big Project ME* that its work on the Al Mughirah Housing Project in Abu Dhabi showcase the best of its brand and quality to the region's industrial and construction sector

**F**ounded in 1974 by Silvano Pedrollo, the Pedrollo Group is a major industrial company based in the Northeast of Italy. Operating in the sectors of water handling, energy transformation and applied technology, it is recognised as being a world leader in the production of electric pumps.

The group of companies has more than 1,200 employees, and has grown to include its complementary businesses of Linz Electric, Gread Elettronica and Panelli. It has expanded its operations across the globe, exporting most of its production to over 160 countries with 10 commercial branches.

However, it has been linked with Dubai right from the start, with Silvano Pedrollo visiting the city in 1974 and meeting with UAE businessmen and officials to

showcase how his company's pumps could help bring water to the desert.

Since then, the company has gone from strength-to-strength in the UAE, with a reputation for high-quality standards for both products and services. As a result, it has worked on several high-profile projects in the country and continues to be regarded as a leading manufacturer for electric pumps in the region.

The Group has successfully completed the supply and installation for a major housing project for the Abu Dhabi Housing Authority, in collaboration with the Abu Dhabi Public Services Company (Musnada), which will see them deliver several pumps for different applications across the massive development.

Speaking to *Big Project ME*, the company states that participation in the Al Mughirah Housing Project represents

a great opportunity for it to consolidate its position and brand in the UAE's industrial and construction sector.

### What is the Al Mughirah Housing Project?

Al Mughirah Housing Project includes 410 residential villas for UAE citizens at a cost of \$344.1 million. It extends over an area of 206 hectares (2.06sqkm) and is being implemented by Abu Dhabi Housing Authority, in collaboration with Musnada, in line with the specifications of the Emirati Neighbourhood project. These are projects that aim to establish integrated housing communities that feature heritage design touches that reflect the Emirati national identity and heritage.

Each plot is 1,080sqm, with each villa 543sqm in size. All the villas are five bedrooms, and contain a men's majlis, a woman's majlis, a dining room, two family living rooms, a kitchen, storeroom, laundry room, a housemaid's room, a driver's residence and other facilities.

The project also includes four mosques: one prayer complex that can accommodate 1,200 worshippers and three mosques that can each accommodate 350 worshippers. There are also facilities for 30 shops distributed throughout the project, as well as 13 parks and beach facilities, along with four public bathrooms. The entire development will also be served by 13 power stations.

### How did Pedrollo Group get involved with the project and why was it chosen over its competitors?

The project was revealed for RFQ as official tender by the nominated MEP contractor. Pedrollo's pumps prices matched the requested budget and met the project specifications. The competition was tough, but considering the techno-commercial offer, we were selected to supply the whole project.

Our pumps will ensure the perfect management of hydraulic resources, with full efficiency. The quality, innovation, design and reliability of our products have always represented the ideal solution for any situation, from domestic applications to industrial needs, with an eye to the future in terms of high-tech solutions and energy savings.



**▲ Different applications**  
1,684 pump units were installed across the project to carry out a variety of different applications and uses across the development.

### What were some of the pump models used on this project and why were they chosen?

We used various types of pumps on this project, based on the requested duty operation points and hydraulic calculations done for each building, so as to ensure the stable supply of water at the desired pressure.

The total number of pumps installed was 1,684 units from the following Pedrollo models: CPm 180 ST4, CPm 132, CPm 230C, MC 30/50. The pumps have been installed for different application as: transfer sets, booster sets and drainage and sewage applications.

#### Transfer Pump Sets:

- The transfer pump sets are for the 410 villas. From the main ADEWA supply, water goes to each individual villa underground tank, and it is transferred to the roof tank.
- Each villa has a transfer set comprising of two pumps (CPm132) controlled by an electronic control panel, working as 'Duty Stand-By Operation', which

means that the two pumps are operating in an intermittent sequence to avoid any water supply stoppage in case of a pump breaking down.

- For the six commercial retail buildings, the same concept of transfer sets applies, using both models of CPm 180-ST4 and CPm 132.
- The four main community mosques have transfer sets models of CPm 230C.

#### Booster Pump Sets:

- Each villa has a booster set composed of two pumps (CPm132), a pressure tank and are controlled by an electronic control panel installed on the roof next to the roof tank.
- The pumps work as "DUTY STAND-BY OPERATION" and pressurise the water line to have sufficient pressure while meeting the standard house water demand usage (i.e.: kitchen and bathroom usage, garden watering, laundry and so on)
- For the commercial retail buildings (six buildings), the same concept of booster sets, using both models CPm 180-ST4 and CPm132
- The main community mosques use booster sets made by CPm180-ST4

#### Drainage and Sewage System:

We installed our 3HP pump model MC 30/50 to transfer the dirty water back to the main government sewer drain system.

### How did Pedrollo work in partnership with the other project stake holders?

Pedrollo Gulf is the representative of Pedrollo Group in the region. It authorised a local company, AQUA GAS - PUMP DIVISION, to handle the supply, installation and testing commissioning, in cooperation with COMBINED GROUP CONTRACTING and the MEP contractor.

### What has been the feedback from the client and other stakeholders about the pumps?

All the villas and buildings are operational and ready. The client and the contractor are grateful for closing the project on time and for the quality delivered.

For further information, please refer to our website: [pedrollo.ae](http://pedrollo.ae)

**410**  
*The housing project includes 410 villas for UAE citizens*