

PETROCHINA CHANGQING OILFIELD OFFICE BUILDING

XI'AN CITY, SHAANXI PROVINCE, CHINA



CORPORATE

INTELLIGENT BUILDING

This gasoline industry head office for PetroChina Changqing Oilfield, is located in Xi'an City, Shaanxi Province. In 2012, Shaanxi Jinruan Zhisheng Electronic Technology Co. Ltd. installed MACH-System™ controllers, which are responsible for centralized management and energy conservation control for all equipment in the heat pump machine room.

PROJECT DETAILS

The Reliable Controls MACH-System is composed of 4 MACH-ProSys controllers and 25 expansion modules. Connected by Ethernet, the MACH-ProSys controllers command four heat pump packages with auxiliary water pumps and electric valves. At the same time, the controllers act as Modbus-RTU masters monitoring temperature, water flow, electric current and other parameters. The system optimally starts and stops relevant equipment and avoids unnecessary equipment operation, reducing the energy consumption of the entire operation.

To ensure that computer breakdowns do not affect the operation of the heat pump system, a touch screen was added to make it easy for operators to modify the operation parameters on site.

The Reliable Controls MACH-System has been flawless since its installation. The owners of this office are all very satisfied with the installation and reliability of the system.

To learn more about projects using Reliable Controls® visit
www.reliablecontrols.com/projects/overview



PROJECT TYPE:

New Construction

INSTALLATION TYPE:

HVAC, Electric Power Monitoring

TOTAL AREA:

100,000 m² (1,076,000 ft²) office

EQUIPMENT INSTALLED:

1 MACH-ProWeb Sys™

4 MACH-Pro Sys™

4 MACH-ProPoint-I™

21 MACH-ProPoint-IO™

NETWORK:

EIA-485, Ethernet

INTEGRATION:

BACnet®, Modbus

TOTAL SYSTEM POINTS:

500 points

RELIABLE CONTROLS® DEALER:

**ShaanXi Jinruan Zhisheng Electronic
Technology Co. Ltd.**

www.reliablecontrols.com