



Xinda Machine Works /

2002-2003 Geo Source One Inc. was selected by Ningbo Selong Group, Ningbo, China, for the feasibility and implementation of geothermal heating and cooling for the Xinda Machine works air compressor division. This project involved the recommendation and implementation of a hybrid geothermal loop system employing over 2,268 liter per minute of factory process well water. The well water is diverted through plate heat exchangers which serve to separate the process water from a recirculating geothermal loop which serves over 700KW of geothermal equipment for heating and cooling the factory area. By utilizing the process water as a source for the geo-exchange system, the Xinda Machine Works obtained double usage of their water resource, first for heating and cooling and second for industrial process water before the water was recycled to a series of settling and infiltration ponds. Through the use of this hybrid means for providing geothermal energy the Xinda Machine works was able to reduce installed cost of the geothermal by the equivalent of \$1,080,000 US dollars which would have been expended for drilling the needed vertical geothermal exchange wells had the project proceeded by conventional "closed loop geothermal methods. Additionally, the project resulted in the sale of +\$390,000 value in US manufactured geothermal equipment.