

# NAM HAI COMPANY LIMITED – MANUFACTURE OF FURNITURE, BINH DUONG - VIETNAM

## APC PROVIDED TURNKEY ENERGY SAVING SOLUTION (CPES) FOR AIR COMPRESSOR SYSTEM

### Background

Nam Hai furniture factory has been in Binh Duong Province in Vietnam since 2003. This factory has 500 employees and manufacture of furniture and exporting to oversea such as US, EU and Asia market.

### Problem

The Air Compressor plant was served by 2 Air Screw Compressors ( Hitachi 55kW and Quincy 75kW ),The system was designed with old technologies load/unload by Star – Delta Control. The factory expect to find optimizing operation of system for energy saving and improving less stress of mechanical of system such as: oil management, cooling, starting current, maintainance cost and reducing large power consumption 164,400 MWh/year.

### Project Scope

APC Industry provides Turnkey Energy saving solutions from scope of site survey, system analysis, system engineering and installation and testing commissioning system with proposed saving target 30-35% within three weeks.

### Outcomes

After finishing installation and commissioning system and APC engineers recorded and measured power consumption within 30 days , the actual result of system has been archived 55% saving more than proposed target for owner. This solution keep this air compressor plant best performance in the stable of air supplying to production.

Main items	Amazing numbers
Annual energy saving (MWh)	90,420
Energy saving percent of Air compressor system (% of total)	55%
Pay back time (Year)	2.8



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