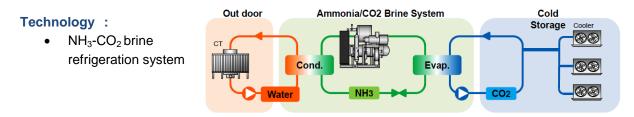
# Summary of study: Refrigeration system in a food processing unit: Unit - 2

## Industry : Food processing

Unit profile : A seafood processing unit located in Bhimavaram (Andhra Pradesh)



Application : Energy savings by replacing the existing Freon-based cold storage system with NH<sub>3</sub>-CO<sub>2</sub> brine refrigeration system

## Year of investigation: 2018

### **Key features:**

- NH<sub>3</sub>-CO<sub>2</sub> brine refrigeration system that brings energy saving, high safety and easy maintenance; replaces ozone-depleting Freon-based system
- New screw compressor
- Semi-hermetic IPM motor
- Flooded evaporator
- Double economizer
- Automatic operation

### Energy and cost saving:

Details	Existing	Recommended
Cold storage system	Freon-based cold storage system	NH <sub>3</sub> -CO <sub>2</sub> brine refrigeration system
Energy saving potential		High