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# ENERGY OPTIMIZATION for AMMONIA REFRIGERATION

*“Saving Energy = Saving Money”*

In the world we live in, saving energy is a top priority not only for economics, but also for the environment. This course is designed to inform and create awareness of the energy use, loss, and cost and provide a means to begin managing and thus saving energy and money. The course addresses best practice operations, low / no-cost improvements and capital projects.

The course syllabus includes:

## Basics of refrigeration system operation and energy use

- Review of refrigeration system components
- Highlight each component’s contribution to energy use
- Address the combined impact of 2 or more components

## Buildings and Auxiliary Systems Energy Usage

- Architecture
- Air Compressors
- Boilers
- Ancillary Components

## Basic Electricity Review

- Fundamentals
- Generation
- Power and Cost Calculating

## Thermodynamics Review

- Enthalpy
- Entropy
- Psychrometrics

## Energy Management

- Team Concepts
- Training
- Existing Programs

## Best Practices

- Baseline Energy Use
- Identify Opportunities
- Estimates
- Prioritize Projects

## Low Hanging Fruit

## Capital Projects

## Monitor and Evaluate Progress

Seminar reservations may be made by contacting:

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**Refrigeration, Mechanical & Food Process**  
MEMBER OF: IIR-ASHRAE-RETA-MCA-MSCA-NCPWB