

# Energy Assessment

CIBO

June 2014

# What we have done

- Reviewed the rule
  - Note no definition around who can do the assessment (qualified)
  - Understand what efficiency credits may do to help
- What to assess from a unit operation perspective
  - Ongoing and difficult to nail down
  - Operations all use energy
- How to attack the issue
  - internal vs. external
  - One time energy assessment vs. Iso 50001
- Energy management practices currently employed at Cargill (Energy Star at several locations)
  - Leak tag program (steam, air, and water)
  - Reliability centered Maintenance on all equipment
  - Insulation
  - Tuning of combustion systems
  - VFDs
  - Motor efficiency
  - Control systems
  - Metering of raw materials
  - Boiler feed water heating / air heating / condensate recovery
  - Behavior Based Energy
    - Daily tracking metrics
    - Site level ownership
    - Builds awareness at work and home

# Summary

- What have we actually done
  - Move forward with BBE program
  - Struggle with best approach
  - Continue to nail down the right answer from a technology perspective in each location to comply
    - Concerned that there is no more guidance on efficiency credits