



Bonduelle Energy Management System

Benms









- The plant in Tecumseh is the first Bonduelle plant in North America to develop and implement an Energy Management System (BEnMS)
- BEnMS is a Monitoring and Targeting System initiated to have Energy related metrics readily available to a number of end users, not just the Energy Manager









- The system is able to read and report:
  - Water, air, gas, electric and steam meter data (WAGES)
  - Weather station data (temperature, dewpoint, pressure)
  - Real time energy prices
  - Real time production rates
- In the future we will be able to use the data we are collecting to accurately predict our energy consumption based on weather, production volumes and other factors









- Collaboration between Schneider Electric and Bonduelle's Energy Manager have developed the foundation for a state of the art system.
- Funding for this project came from Ontario's SaveOnEnergy program in the amount of \$75,000











Several different software solutions were evaluated and in the end the decision was made to use Schneider Electric's Power Monitoring Expert and ION EEM software packages





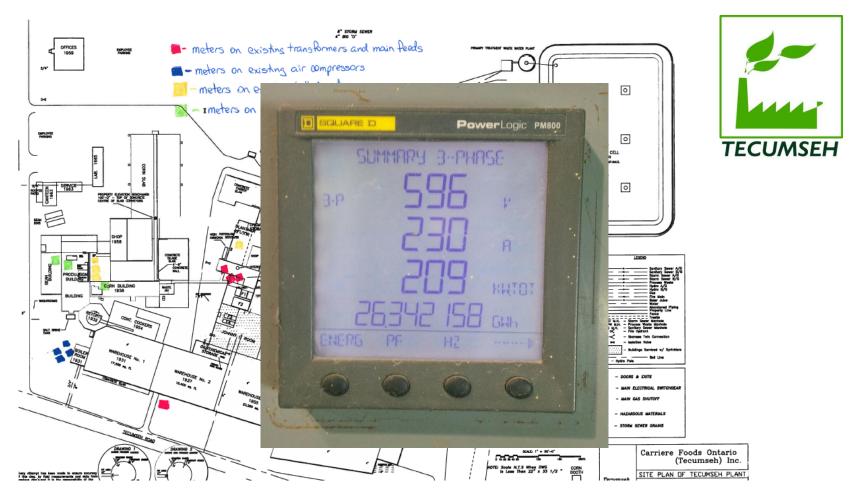
## Schneider Electric



- The main reasons we chose Schneider are:
  - Ease in using third party meters (OPC, MODBUS, etc)
  - Ability to have user configurable dashboards and web interfaces
  - Ability to do multiple variable regression analysis
  - Ability to create predictive models



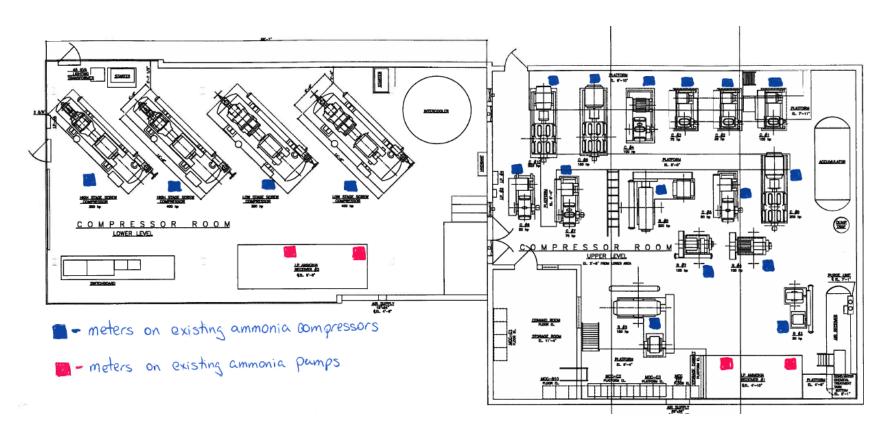
### **Electricity Meter Locations**



Today there are seven PM800 meters communicating with BEnMS



### **Electricity Meter Locations**



Additional meters to be installed in Q1 2015 for Refrigeration and Compressed Air Equipment to monitor electricity and refrigeration data.



#### Steam, Water and Air Meters



- New steam meters to be installed in Q1/Q2 2015
- 27 Existing water meters communicating with BEnMS
- Compressed Air Flow meter to be communicating in Q4 2015



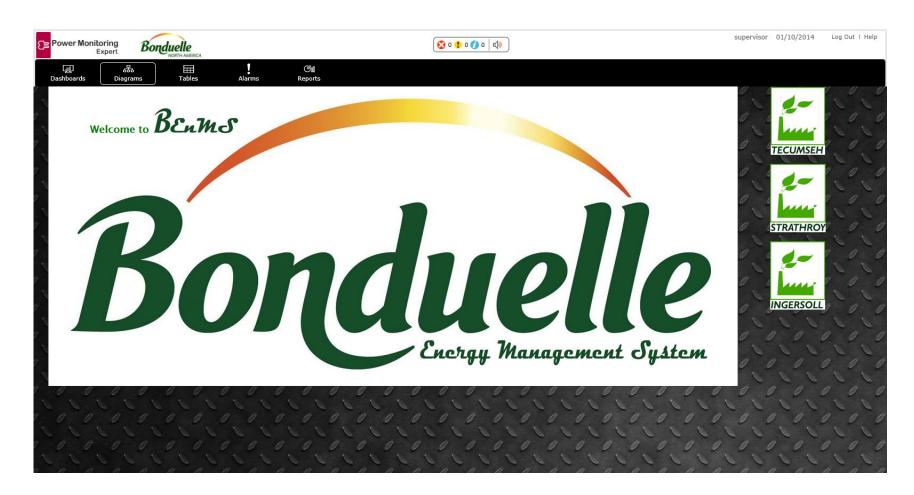
# Benms

TODAY

Phase 1 - Tecumseh

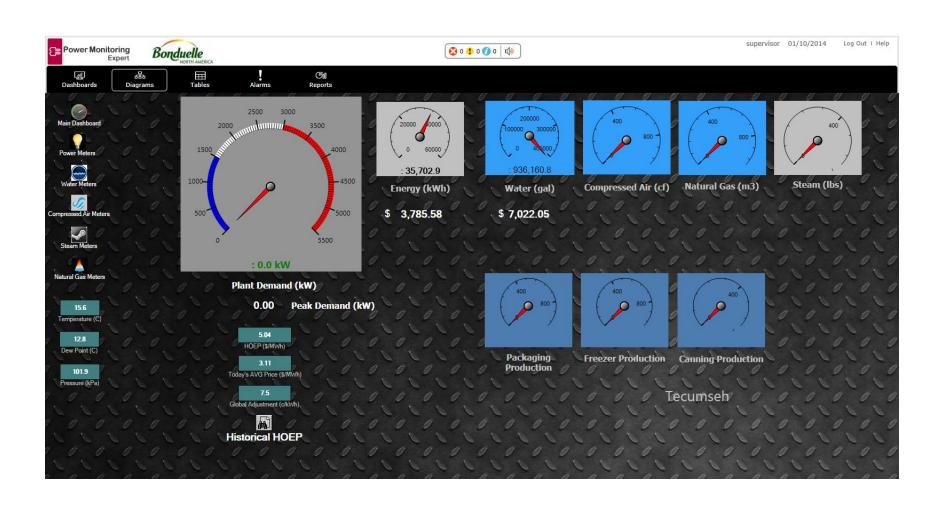




































# Benms FUTURE

Phase 2 – Strathroy and Ingersoll



# Benms FUTURE

Phase 3 –
Four Remaining US
Locations



### THANK YOU

