



United Technologies

Carrier Corporation, BIS
Indianapolis
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Greenhouse Gas Projects



Achieving Competitive Excellence

The United Technologies Operating System



Environment, Health & Safety

United Technologies Corporation

Greenhouse Gas

Definition

Greenhouse Gas - any of various gaseous compounds (such as carbon dioxide) that absorb infrared radiation, trap heat in the atmosphere, and contribute to the greenhouse effect

CO₂

- Electricity
- Natural Gas



Greenhouse Gas

Audits

Conducted an Energy Assessment – find opportunities to save energy

Developed the Greenhouse Gas (GHG) Team – to implement energy saving projects

Greenhouse Gas

Projects

2014 Projects (annualized)

- Operating pressure – 12 MT CO₂
- Compressor Leaks – 728 MT CO₂
- Compressor replacement – 350 MT CO₂
- No heat washers (aluminum) – 2803 MT CO₂
- Misc. lighting replacements – 496 MT CO₂
- Office HVAC (new office areas) – 350 MT CO₂
- Shut It Off program – 479 MT CO₂ (requires no capital investment)
- Decommissioning of 7163 manufacturing line – 2168 MT CO₂
- Decommissioning of 7164 manufacturing line – 2168 MT CO₂

Greenhouse Gas

Projects

2015 Projects (annualized)

- Building 8 (manufacturing) lighting replacement – 1,100 MT CO₂
- WHSE lighting replacement – 800 MT CO₂
- Compressor replacement – 350 MT CO₂
- Replacement of cooling tower VFD – 26 MT CO₂
- Replacement of dock doors/steel bay – 350 MT CO₂
- Shut It Off Phase II – 500 MT CO₂

1. **Determine impact of 7125 startup.**
2. **Monitor the electrical substations to determine specific usage of electricity(each substation is associated with specific equipment for electrical use).**
3. **Monitor individual building for natural gas use (bldg. 8, 9 and WHSE)**