



## ENERGY EFFICIENCY SOLUTIONS FOR INDUSTRIAL FACILITIES

# It's time to manufacture energy savings

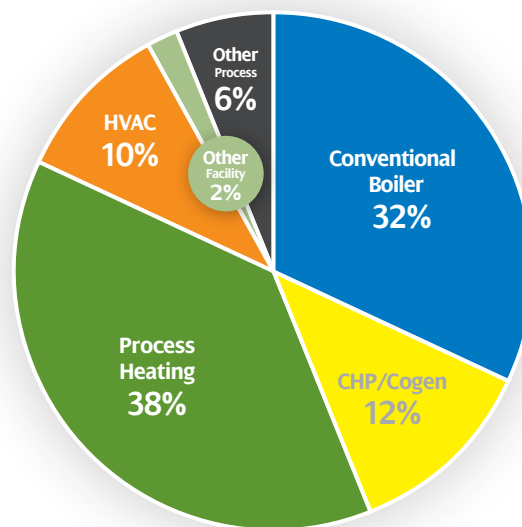
The industrial sector is the largest energy consumer in the U.S. economy, accounting for nearly a third of the nation's energy use. And yet the huge potential to produce energy savings goes largely unrealized. Our **Commercial and Industrial Rebate Program** can help you identify energy efficiency opportunities to reduce your facility's energy consumption, lower your monthly energy costs and provide incentives to help make energy saving improvements more affordable.

### Benefits Summary

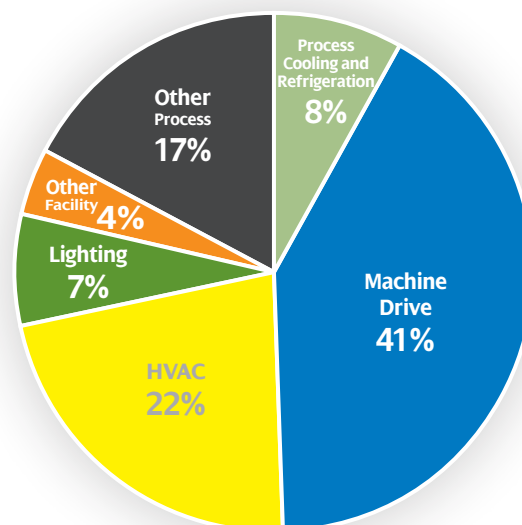
Taking steps toward energy efficiency can do more than just lower your monthly energy costs. Upgrades to your process systems, equipment and lighting can go a long way toward lowering operational costs and improving:

- **Operational efficiency**
- **Productivity**
- **Employee comfort and productivity**
- **Process improvements and efficiencies**
- **Environmental stewardship**
- **Community relations**

### AVERAGE GAS ENERGY CONSUMPTION OF INDUSTRIAL FACILITIES\*



### AVERAGE ELECTRIC ENERGY CONSUMPTION OF INDUSTRIAL FACILITIES\*

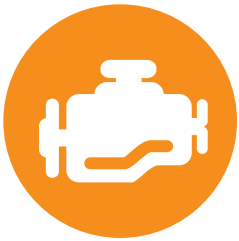


# Opportunities for Industrial Facilities



## Lighting

- Replace high bay fixtures with LED fixtures, which not only use 60-80% less energy, but also reduce maintenance and downtime because LEDs last longer.
- Install additional occupancy sensors or a lighting control system that turns lights on and off according to occupancy schedules.
- Update HID wall packs, bollards and other parking lot lighting with LED options, improving energy efficiency, reducing maintenance, and increasing safety at night.



## Motors and Drives

- Add variable speed drives to pumps, fans and blowers to reduce energy consumption by 30-50% and more accurately control equipment operation.
- Installing high efficiency electric components such as servomotors or electric blowers with variable speed drives to replace compressed air processes can reduce the energy consumption in those processes up to 90%.



## Process-Related Measures

- Utilize heat recovery for either pre-heating combustion air, pre-treating process water or for space heating to improve combustion efficiency, reduce process heating or cooling demands and to save on energy bills.
- Monitor and control both exhaust and intake air to verify proper air-to-fuel ratios and ensure optimal operating efficiencies of heating equipment.
- Utilize absorption chiller systems when excessive heat is produced (typically in the form of steam) as part of the production process.



## Compressed Air

- Utilize variable-speed-drive-equipped compressors to save substantial energy as well as increase functionality and reliability.
- Install no-loss condensate drains and low pressure drop filters to help save energy, improve air quality and reduce maintenance costs.
- Install flow controllers to eliminate artificial demand and substantially reduce leakage.
- Offset building heating loads with a waste heat recovery system.

## LOW- OR NO-COST SOLUTIONS

- Walk through the facility during off hours to identify any energy waste.
- Perform routine maintenance on heating and cooling equipment to ensure equipment is operating at optimal efficiencies.
- Change settings on equipment and HVAC equipment to reflect actual hours of operation to reduce wasting energy.
- Establish a list of energy shut-down procedures and introduce them to plant managers and employees.
- Form an energy efficiency task force to help enforce shut-down procedures.

## START SAVING TODAY

**Manufacturing facilities and plants vary widely in their processes and energy use. Regardless of your facility's operations, there are likely ample opportunities for energy savings. If you are looking for a way to cut costs and improve operations, we can help!**

Contact the **Commercial and Industrial Rebate Program Team** at **888.316.8023** or **[cienergysavings@franklinenergy.com](mailto:cienergysavings@franklinenergy.com)**.  
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