



INDUSTRIAL EQUIPMENT ENERGY SAVINGS GUIDE

Every piece of equipment in an industrial facility can be an opportunity to save energy and money. Energy Trust of Oregon can provide cash incentives to help you reduce energy costs and increase efficiency.

The questions below are designed to help identify opportunities to save energy with the equipment you use every day. If you answer yes to any of these questions, the list of energy-saving opportunities that follows can help you reduce energy use and may qualify for cash incentives from Energy Trust.

Compressed air systems

Does your compressor provide more capacity than the system uses? Does your system have high operating hours, or leak air?

- Install a variable speed air compressor
- Replace two air compressors with one larger air compressor
- Add zero-loss condensate drains
- Install a cycling refrigerated dryer
- Add additional receiver capacity
- Install low-pressure drop filters
- Locate and repair air leaks

Dust collection

Is your system running during times of no production?

- Install automatic blast gates
- Add fan variable frequency drive (VFD) and/or controls
- Match airflow to requirements of the process

Pumps

Does your system have a throttling valve or flow bypass valve to restrict or bypass excess flow?

- Add VFDs
- Install automatic actuating valves

Ventilation fans and cooling tower fans

Could your fan speed be slowed to match system demand?

- Add a VFD

Welders

Does your existing welder use a transformer power supply? Is your welder used more than 2,000 hours per year?

- Replace a large, old transformer welder with a smaller, more efficient inverter welder

High-speed doors

Are the doors to your refrigerated spaces frequently left open?

- Replace strip curtains or hard doors with high-speed doors

Forklifts

Do you use SCR or ferroresonant battery chargers to charge 24 or 48 volt batteries for your forklifts and pallet jacks?

- Replace inefficient battery chargers with new high-frequency chargers

Refrigeration units

Do your defrost heaters run on a timeclock schedule? Do your evaporator fans run continuously?

- Add intelligent controllers to control the timing of defrost cycles and the running of evaporator fans

Natural gas process heating

Do you use hot water or steam in your process?

- Replace or rebuild leaking steam traps
- Install a high-efficiency process hot water boiler

Do you have any uninsulated hot water or steam pipes?

- Install pipe insulation

Natural gas heating, ventilation and cooling (HVAC)

Is your building heated with natural gas? Are your walls, attic, or roof un-insulated?

- Install insulation

Are you heating an indoor space where local, radiant heating would be sufficient?

- Install infrared natural gas fired radiant heaters

Is your building utilizing gravity or power vented unit heaters?

- Upgrade to gas fired infrared radiant heaters



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