

Energy Savings for Process Facilities

NIPSCO ENERGY EFFICIENCY PROGRAMS FOR BUSINESSES



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Unlock Your Facility's Energy Savings Potential

Industrial process facilities prepare, treat and convert raw materials into finished products or processed materials. While they vary in what they produce, such as food, chemicals, pharmaceuticals and automotive, they all share opportunities to achieve energy savings.

To achieve energy savings in a process facility, key strategies to focus on include:

Equipment Maintenance

- **Regular inspections:** Check for wear and tear, dirty filters and malfunctioning components in equipment like motors, compressors and pumps
- **Proper lubrication:** Maintain proper lubrication levels to reduce friction and energy consumption
- **Cleaning:** Regularly clean heat exchangers, cooling coils and other surfaces to optimize heat transfer

Process Optimization

- **Energy audits:** Conduct regular energy audits to identify inefficiencies and areas for improvement
- **Operating parameters:** Adjust process variables like temperature, pressure and flow rates to minimize energy use while maintaining product quality
- **Batch scheduling:** Optimize production schedules to minimize idle time and energy consumption
- **Heat recovery:** Utilize waste heat from processes to preheat other process streams

Advanced Controls

- **Advanced Process Controls:** Integrating process control and optimization software boosts productivity to shift production strategy and maximize yield on high-value products
- **Variable speed drives (VSDs):** Install VSDs on motors to adjust speed based on demand, reducing energy consumption
- **Smart sensors:** Monitor key process parameters and automatically adjust equipment operation for optimal efficiency
- **Building automation systems (BAS):** Optimizing the performance of the heating, ventilation and air conditioning system reduces the energy consumption of the process facility

Equipment Upgrades

- **High-efficiency motors and pumps:** Replace older equipment with high-efficiency models, such as high-efficiency refrigerant compressors with variable frequency drives (VFDs) for motors
- **High-efficiency HVAC systems:** Install modern HVAC systems with advanced features like energy recovery ventilators, condensing gas-fired boilers or heat pump chillers
- **LED lighting and occupancy sensors:** Replace traditional lighting with energy-efficient LED fixtures and install sensors to automatically turn off lights when areas are unoccupied

Compressed Air Management

- **Leak detection and repair:** Regularly check for and repair leaks in compressed air lines
- **Pressure reduction:** Maintain the lowest possible operating pressure needed for processes
- **Demand-based control:** Use air-saving devices to reduce air consumption when not needed and VFD compressors to match the compressed air load

Improve Insulation

- **Process Equipment Insulation:** Insulate pipes, tanks and other equipment to reduce heat losses
- **Building Insulation:** Enhance thermal insulation in walls, cold rooms, roofs and windows to minimize HVAC energy use



Click or scan to explore the full list of NIPSCO's 2025 energy-saving measures*



Get started saving!

Now that you know more about what to upgrade, contact a TRC* Field Engineer in your area by visiting trcsavesenergy.com/Home/ContactUs or calling TRC at 1-800-299-2501.

Schedule a No-Cost Energy Assessment

NIPSCO business customers have the opportunity to schedule a no-cost energy assessment with a TRC* Field Engineer to determine where they may be able to save money and energy in their building.

What does it include?

- ✓ Introduction to the NIPSCO Energy Efficiency Programs
- ✓ Review of your current energy consumption
- ✓ On-site assessment of the efficiency of current energy systems and equipment.
- ✓ General report highlighting potential ways to save in your facility



Click or scan to begin your energy-saving journey with a no-cost energy assessment*

* NIPSCO's energy efficiency programs are administered by TRC, a third-party implementation specialist that helps homes and businesses save energy. Link directs to a TRC powered site.