



# Improving performance for industries with higher energy needs



## About Us

We are dedicated to helping Albertans save energy and reduce their carbon footprint. Simplified Custom Measures offers incentives that make it easier and more affordable for facilities with high energy needs to update older equipment with energy-saving solutions. The result is more comfortable, efficient buildings with lower operating costs.

## Get Started

No matter what your needs are, our account managers are here to guide you through the process and identify the best opportunities for you. Contact us to get started today.

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## Simplified Custom Measures

Facilities face high energy demands but may lack the out-of-pocket funds associated with making custom upgrades. That's why Energy Efficiency Alberta has introduced Simplified Custom Measure projects that are less complex and do not require complex system models or uniquely designed measurement and verification (M&V), so projects can be processed relatively quickly. These lower-cost measures often provide facilities with valuable energy savings, at a fraction of the up-front cost.

## Simpler Measures, Simple Results

Simplified Custom Measures projects require more than just simple inputs, usually in the form of field spot measurements and short-term data logging. However, they do not require complex system models or uniquely designed measurement and verification (M&V), so they process much faster than custom projects. For example, installing no-loss drains on compressed air systems can increase efficiency without more costly upgrades.



# SIMPLIFIED CUSTOM MEASURE LIST

## COMPRESSED AIR

### Leak Repair

- Leak survey must be performed by a qualified Program Ally.
- Leak locations and quantification must be identified by a tag which shall remain in place for at least 30 days post repairs in the event repair verification is required.
- One leak must be repaired for every five HP of non-backup air compressors.
- At least 50 per cent of the total identified leak volume must be repaired.
- If less than one leak per five HP of non-backup air compressors is identified, all identified leaks must be fixed.
- If all leaks are not fixed, an explanation of what prevented the leaks from being fixed is required.

### No-Loss Drains

- Baseline condition is a standard condensate drain (open valve or timer).
- The replacement or upgrade of existing no-loss drain is not eligible.

### Pressure Reduction

- Set point is fixed and has not been adjusted within the past year.
- Measure must be implemented with another compressed air system measure to qualify for an incentive based on energy savings.

### VFD Compressor $\leq 75$ HP

- Baseline air compressor and proposed air compressor capacity must be less than or equal to 75 HP.
- Compressed air demand in the system must be variable.
- The unit being upgraded is not a redundant or backup compressor. It must be the dedicated air compressor for the system.
- Savings are capped at 20 kW and 100,000 kWh.

## FAN/PUMP

### Fan/Pump VFD

- Fan/Pump motors must be 50 HP or less.
- Control type must be in the existing pick list.

## CONTROLS

### Timers

- Space heating systems are not eligible.
- Controls must be implemented on a system that has a traceable driver (i.e., weather, shift times, production schedule, interlocked equipment with historical data collection, etc.).
- Baseline condition is no controls in place for full system.

## BOILER/STEAM

### Boiler Tune-Up

- The baseline condition is that the boiler must not have had a tune-up within the past 36 months.
- Individual boilers must be less than 5 MMBTU.
- Post tune-up efficiency must not exceed boiler nameplate efficiency.
- All required tune-up activities must be completed.

## STEAM

### Steam Trap Replacement

- Repaired traps are not eligible for incentive.
- Replaced traps must be in the failed open position.
- Steam system pressure must be  $< 300$  psig.

### Boiler Burner O<sub>2</sub> Controls

- Space heating boilers are not eligible.
- Boiler must operate a minimum of 2 shifts per day, 5 days per week throughout the year (min = 4,000 hr/yr).
- Boiler baseline condition does not have oxygen controls installed.

### Turndown Ratio

- Boiler baseline condition turndown ratio is less than or equal to 6:1.
- Redundant boilers do not qualify.
- Efficient case will have a turndown ratio greater or equal to 10:1 and operates at loads less than 30% of full boiler capacity.