Welcome
Today’s Peak Savings Workshop

- What is the Peak Savings Program?
- What are the benefits?
- How can I participate?
- What resources are available?
- Questions
What is the Peak Savings Program

- Demand Reduction Program during the Summer Months
- Reduces need for generation capacity as we manage our energy
Benefits

• Customers
  • Keeps rates low
  • Maintains reliability
  • The solution is within our community
Who Can Participate

- Customers on a Demand Rate
- Customers able to reduce electric demand by a minimum of 5% during called events.
Demand Response

• Lowers system demand during peak periods (April 1 – September 30), due primarily to higher cooling load
• Reduces Colorado Springs Utilities’ need for generation capacity – improves system reliability and lowers cost
What is Demand (kW) vs. Energy (kWh)

Interval Demand (kW)

Quantity of Energy Consumed (kWh)

Peak Demand (kW)

Energy Consumption (kWh)
Effect of Demand Response Program

![Graph showing the effect of peak savings program on system demand]

- Peak System Demand
- Effect of Peak Savings Program

**Peak Savings**
• Program Timeline
  • 2019 through 2020 with annual renewals
• Peak Period
  • April 1 through September 30
  • Event start times between 11 AM and 6 PM
  • Event days: Monday through Friday excluding holidays
Customer Eligibility Criteria

• Basic Eligibility
  • Colorado Springs Utilities business customer on a demand rate
  • Able to reduce demand by at least 5% during a called event
Incentives

Partner

- $50/kW of annual committed electric demand reduction
- Paid based on successful participation in 10 events (plus one test event) each year
- Partner receives incentive for reaching 90% or higher of committed load reduction
- 10% reduction in benefits for each opt-out or under performance, no penalty fees

- Free facility walkthrough to identify electric demand-saving strategies and efficiency opportunities
- Free online energy monitoring dashboard with ability to view and download up to 2 years of data
Partner Incentives – Example

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<th>Commitment Satisfied?*</th>
<th>Incentive Reduction</th>
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Incentive: $2,500.00 ($50/kW x 50 kW x 100%)

Incentive: $2,000.00 ($50/kW x 50 kW x 80%)

* Actual reduction must fall within +/- 10% of commitment or 50kW, whichever is less
Process

- Initial meeting - identify potential peak load reduction strategies
- Free facility walkthrough, if desired
- Complete and sign enrollment agreement
- Partner Portal (energy-monitoring dashboard) access provided
- Conduct Test Event
Process

- Receive event alerts 8-24 hours in advance
- Reduce demand during events
- Adjust committed kW, if necessary
  - Program staff to provide ongoing support
- Receive annual incentive
Energy-Monitoring Dashboard

- **Partner Portal** energy dashboard displays daily, monthly, and annual electric demand (kW) and consumption (kWh) in 5-minute intervals.
Energy-Monitoring Dashboard

• **Partner Portal** energy dashboard displays detailed demand curtailment data following an event.
Case Study – Tool Manufacturing

- Shut down or shift batch assembly or production lines and associated equipment – e.g. extruders, hones, plating, test ovens, water purification, paint booths, etc.
- Reduce output or shut down unnecessary equipment - e.g. forklift chargers, compressors, humidifiers, etc.
- Reduce or shutdown make-up air, cooling, or exhaust fans
- Turn off or dim non-essential lighting
Case Study - Office

- Increase cooling setpoints through global temperature adjustment or by zones and pre-cool spaces if needed
- Reduce or shutdown make-up air, cooling, or exhaust fans
- Turn off or dim non-essential lighting
- Shift or avoid demand intensive activities during events such as external training
Case Study – Retail / Grocery

- Shut down unnecessary equipment such as anti-sweat heaters
- Close doors to refrigerated spaces or turn down/off refrigerators or freezers, which will hold temperature for hours
- Reduce or shutdown make-up air, cooling, or exhaust fans
- Turn off or dim non-essential lighting
- Inform and involve your customers - include giveaways for participation
Common Strategies

• HVAC pre-cooling & control sequencing
• Set kW thresholds for individual equipment in EMS during events
• Reducing lighting in non-key areas
• Staggering equipment startup / operating times
• Discontinue operation on specific (batch) process
• Delay battery charging
• Compressor cycling
• See Peak Load Reduction Strategies handout for more ideas
Questions
Next Steps

- Complete your Survey
  - Top page of handouts
  - Will be emailed to those attending remotely
- Chance to Win a Nest smart thermostat
- Schedule a free facility walkthrough to identify demand-saving opportunities
- Jacob, Koushik, and Business Account Managers are available today to discuss your unique situations
- Share the Peak Savings Video we will be emailing to you and discuss with your teams
Contact Information

- Peak Savings Program
  - 719-668-7283
  - PeakSavings@csu.org
  - https://www.csu.org/peaksavings
- Business Account Manager