



AGENDA

1:00 – 1:10 p.m.

1:10 – 1:20 p.m.

1:20 – 2:00 p.m.

2:00 – 2:40 p.m.

2:40 – 2:55 p.m.

3:00 – 4:00 p.m.

Welcome and DSM Regulatory Updates

2023 DSM Plan Preview

DSM Programs: Q1-2022 Update

Product Deep Dives and Updates

Product Development Update

-- Break --

Demand Response Study Update







Q2 60/90-Day Notices

2021 Product Evaluations – 4/12/2022

- Compressed Air Efficiency
- Business New Construction 4/28/2022
- Energy Start New Homes
- Home Lighting & Recycling
- Residential Heating & Cooling 4/28/2022
 - (High-efficiency AC and Heat Pumps)
- AC Rewards

Heat Pump Efficiency Update

Posted: 4/12/2022

Business HVAC+R Systems Update

Posted: 4/28/2022

Lighting Efficiency Update

Posted: 4/28/2022

School Kits + IQ Kits Update

Posted: 4/28/2022

DSM Regulatory Calendar

Upcoming Filings – Current Schedule

- 2023 DSM Plan + Beneficial Electrification
 - July 1, 2022 (previous June 1 target)
- DSM Strategic Issues + Beneficial Electrification
 - Goal setting for Electric and Natural Gas DSM as well as Beneficial Electrification
 - July 1, 2022 C22-0080 approved filing extension

DSM Regulatory Calendar

Upcoming Meetings – Save the Date!

- Q2-2022 DSM Roundtable Meeting
 - Wednesday, August 10, 2022



2023 DSM/BE Plan – What to Expect

- 2023 DSM/BE Plan will operate under the 2017 Strategic Issues framework
- The plan will look very similar to the 2021-2022
- As we did in the 2021-2022 plan, we will request waivers to exceed gas DSM spend cap and offer Beneficial Electrification measures
- We will propose higher gas DSM and BE targets than we have for 2022
 - Enhanced offerings for both gas DSM and BE
- Updated offerings to include filed 60-day notices, changes in market conditions, lessons learned and feedback from the potential studies and program evaluations



2022 Q1 Achievement Highlights

Electric Portfolio

- 74.8 GWh (14% of 522.8 GWh Target)
- 13.7 MW (14% of 100.5 MW Target)
- \$14M (16% of \$90M Budget)

Business Programs

- 35.6 GWh (10% of Target)
- New Construction 3.7 GWh (8%)
- Small Business Solutions 7.2 GWh (16%)
- Business Energy Assessments 1.9 GWh (30%)

Residential / IQ Programs

- 39.2 GWh (22% of Target)
- Home Lighting & Recycling 27.8 GWh (45%)
- Insulation & Air Sealing 68K kWh (15%)
- Income Qualified SF Weatherization 2.4 GWh (11%)
- Residential Heating & Cooling 1 GWh (7%)

Gas Portfolio

- 94,823 Net Dth (12% of 799,708 Target)
- \$2.9M Spend (15% of \$18.5M Budget)

Business Programs

- 10,895 Net Dth (10% of Target)
- New Construction 10,076 Dth (14%)
- Business HVAC+R Systems 804 (9%)
- Small Business Solutions 10 Dth (%)

Residential / IQ Programs

- 83,929 Net Dth (12% of Target)
- ENERGY STAR Homes 9,151 Dth (6%)
- Residential Heating & Cooling 40,963 Dth (24%)
- Insulation & Air Sealing 6,392 Dth (28%)
- IQ Energy Savings Kit 699 Dth (7%)

Marketing Campaigns & Trade Outreach

Business

Trade Events and Meetings

- Colorado Bar & Restaurant Expo March 8-9 exhibitor and sponsor at the Colorado Convention Center event
- Colorado Clean Energy Fund meeting March 17 on new commercial financing options
- 2022 Energy Efficiency Partner Awards recognition
 - Award winners are posted on XE website
 - Save the Date sent for Trade Partner in person recognition event at Top Golf June 2022
- EEBC Quarterly Membership virtual meeting, March 17
- Denver Strategic Building Electrification working group (ongoing)
- In-person trade partner meetings resumed in Feb./March –
 11 meetings to discuss
 - 2022 program updates
 - Bonus incentives and timing
 - Project reviews
 - Upcoming plans to support energy efficiency

Residential

Marketing

- Xcel Energy Marketplace email campaigns:
 - Ecobee promotion thermostat email campaign
- · Bonus rebates Denver West Metro
- · Home Lighting Onserts: discounts and website

Trade ally/stakeholder outreach

- WHE webinar Jan
- Grid readiness webinar Jan
- BE technical training Apr
- Beneficial electrification conversations ongoing

Partners in Energy Co-branded outreach

- Northglenn Conservation program challenge
- Edgewater Home Energy Squad
- Erie Homeowner Association Outreach Kit
- Boulder County New Construction Incentives
- · Home Energy Squad/Residential Tip Template



Residential Heating & Cooling

The Company is undergoing many efforts to work on increasing participation, including:

- Collaborating with the City of Denver to cross-promote the city's heat pump rebates.
- Collaborating with Center for Energy and Environment (CEE), a company with experience with cold climate heat pump research in Minnesota and the Beneficial Electrification League of Colorado (BEL-CO) to provide training to contractors. Recent training completed in April.
- Partnering with Consortium for Energy Efficiency (CEE) on a project regarding ASHP quality installation.
- Partnering with NREL on a study of cold climate heat pump performance. This has both a laboratory
 and field component, with a goal of metering 40 customer sites. The lab testing is under way and the
 first field participants have agreed and are scheduled for monitoring equipment installation.
- Funding market research to identify barriers to customer and contractor participation for heat pumps.
- 60-day notice filed in early in 2022 to reduce the minimum qualifying EER and HSPF levels for cold climate heat pumps, which has been identified as a barrier to participation.

Residential Heating & Cooling

Q2 60-Day Notice to modify minimum efficiency requirements

• The new requirements will apply for equipment installed on or after the effective date.

	EER (Old)	EER (New)	HSPF (Old)	HSPF (New)
Air Source Heat Pump	12.5	11.5	9	9
CC Air Source Heat Pump	12.5	11.5	10.5	9.5
Mini-Split Heat Pump	11	11	9	9
CC Mini-Split Heat Pump	11	11	10.5	9.5
File Date	4/12/2022			
Effective Date (No Comments)	5/12/2022			
Effective Date (Comments)	6/11/2022			

Residential Heating & Cooling

Heat pump participation

	Electrification	Non-Electrification	Total		Traditional
Mini-Split HP	71	16	87	Central AC	573
CC Mini-Split HP	64	9	73	Evap Cooler	124
HP Water Heater	1	15	16	NG Furnace	1,278
Central ASHP	13	2	15	NG Tankless Wtr Htr	149
GSHP	1	0	1	NG Storage Wtr Htr	23
CC Central ASHP	1	0	1	NG Boiler	22
Total	151	42	193		

Electrification Trainings and Events

Grid Readiness Webinar – January 2022

- In response to HVAC contractor concerns
- Collaboration with Partners in Energy team
- Presented by Channel Manager and Systems Planning and Strategy Team

Heat Pump in-person Training – Early April 2022

- Technical Training Class
- Presenters included: Xcel Energy personnel and subject matter experts

City and County of Denver (CCoD) Rebate Announcement

- Working with CCoD Eligibility requirements match the Company's requirements
- Announced to trade partners at April BE training
- Developing marketing campaign to Denver customers

Rebate Comparison Xcel Energy & City of Denver

Measure	Xcel Energy Rebate	City of Denver	Total
ASHP	\$800	\$7200	\$8000
CC ASHP	\$1000	\$9000	\$10,000
MSHP	\$500	\$4500	\$5000
CC MSHP	\$600	\$5400	\$6000
GSHP (E Res) (5 tons)	\$1500	\$9000	\$10,500
GSHP (G Furn) (5 tons)	\$2000	\$9000	\$11,000
HPWH	\$600	\$1400	\$2000
Smart HPWH	\$800	\$3200	\$4000

Electrification Links

Grid Readiness Webinar

Heat Pump Training

2022 Heat Pump and AC Required Class for Participating Trade Partners

City of Denver Rebates





02 UNDERSTANDING

operation, in addition to the primary modes heat and coal, there is a dry mode which is perfect for dathumst furnig indoor air on days when suddoor temperatures are not outs hot enough to use the

Another new mode of operation is called with which automatically switches between heating and cooling. Auto made may not work well in your area. It works best when there is a big difference between day and night temperatures.

However, auto media deposit work well in some mild. climates and may cause your held pump to switch back. and forth between the heating and cooling modes all day long. This can cause big energy fells and make mores. propriorsable. Instead, try setting the mode of operation to best isome menufacturers use a "sur" symboli sturing the heating season. Switch to the good seads booms. manufacturers use a "snowflake" symboli when you ment ar conditioning

TIP: When you first start the unit, or

Depending on which type of modern heat going you have, you may not even notice the defrost function However, for some, the defrost function can be

confusing. This is because when outdoor temperature are below 60% the outdoor unit will accumulate frost. but no need to worry because your heat pump is designed to defrest itself automatically. It will occasionally slop producing heat to melt for from its sublicor surfaces. After a few minutes it will automatically begin mileing heat again.

What to expect during this defrost mode:

- . Light on the unit may turn on or start blinking
- . Water or steam may be seen at the outdoor · Sounds coming from both indiger and outdoor and
- such as "whiring," "stoking," "rushing fluid," etc. . You may also hear outdoor unin's compressor make
- more noise than normal bulbout the fan nunning . Defrost cycle lasts 5 - 15 minutes, then the unit returns to normal heating operations

On not be playmed the not interfere with your heat







Wants would when there are big differences temperatures.



We recommend that you heating or cooling rather than using just a mode.





XCEL ENERGY DSM GOALS FOR RECOVERY SUPPORT

- 1. Support our customers impacted by the Marshall Fire.
- 2. Drive incremental energy-efficiency as structures are repaired and rebuilt.
- Promote opportunities for beneficial electrification in a fashion that is complementary to our customers' needs and infrastructure capacity.

OVERVIEW OF MARSHALL FIRE SUPPORT

Program	Markets	Immediate	Short Term (3-6 months)	Long Term (6-24 months)	Extended (2-5 years)
New Construction	Residential - destroyed				
Codes Support	Local govt.			I	
Insulation/Air Sealing	Residential – smoke impacted				
Income Qualified	Residential				
Community Outreach (PiE) / Communications	Local Government				
Homeowner Education	Residential – destroyed/dam aged				
Trade Support	Homebuilders, HERs Raters, Insulation				

OUTREACH AND EDUCATION INITIATIVES

- Collaborate with Boulder County web site RebuildingBetter.org
 - Continuing to work with communities on customized information
- Builder/Rater Webinars on "New Construction Certification and Xcel Energy Rebates"
 - Part I- Requirements of ENERGY STAR v3.2 Link to recording
 - Part II- Requirements of the Department of Energy Zero Energy Ready v2 program Link to recording
- Translated rebate information (Spanish)
- Residential video series under development
 - Energy-efficiency in New Construction (IECC 2021)
 - Beneficial Electrification
 - New Construction Certification Options

INSULATION & AIR SEALING BONUS REBATES

- Program rebates doubled for four impacted zip codes (80303, 80305, 80020, 80027)
- Rebate deadline extended
 - Qualifying improvements made Jan. 1, 2022 December 31, 2022, application deadline is January 31, 2023
- Income Qualified bonus rebate for attic insulation up to \$5,000 (regularly \$3,500) and will apply to work completed Jan 1, 2022 – Dec. 31, 2023
- Rebate activity as of March 31, 2022:

Program	Participants	Rebate Dollars
Insulation & Air Sealing	110	\$126,038
IQ Insulation	2 approved, 1 pending	Work outstanding

NEW CONSTRUCTION COMPONENTS

Measure	Rebuilding incentive*	New Owner incentive	Description
ENERGY STAR® v3.2	\$10,000	\$1,250	 High-efficiency heating and cooling system Advanced air sealing, high-quality insulation, and high-performance windows 10% - 20% reduction in energy user over code-built home
Zero Energy Ready Homes v2	\$12,500	\$2,500	 Comprehensive package of measures to minimize dangerous pollutants, provide continuous fresh air, and filter the air in the home ENERGY STAR requirements, advanced practices, and PV ready
ENERGY STAR New Certification Program	\$17,500	\$5,000	 ENERGY STAR Certified cold-climate heat pump for heating/cooling ENERGY STAR Certified heat pump water heater Induction cooktop/range and electric ovens Electric vehicle charging station
Passive House Institute US or Passive House Institute or performance equivalent	\$37,500	\$15,000	 Reduces heating and cooling costs by 60%-80% over code- built home

^{*}For homeowners rebuilding in areas where the local building code enforces International Energy Conservation Code 2021 standards (IECC 2021), but who choose not to pursue one of the certification options above, a \$7,500 incentive is available.



Residential Time of Use (RE-TOU) Rate

RE-TOU Rate Structure



^{*} Approximate kWh rates with riders and fees, does not include fees associated with a noncommunicating opt out meter

Rate Transition Schedule*

Installs from	То	Roll on RE-TOU Rate
04/01/2021	12/31/2021	Billing cycle that includes 04/1/2022
01/01/2022	06/30/2022	Billing cycle that begins on or after 10/1/2022
07/01/2022	12/31/2022	Billing cycle that includes 04/1/2023
01/01/2023	06/30/2023	Billing cycle that begins on or after 10/1/2023
07/01/2023	12/31/2023	Billing cycle that includes 04/1/2024
01/01/2024	06/30/2024	Billing cycle that begins on or after 10/1/2024
07/01/2024	12/31/2024	Billing cycle that includes 04/1/2025

^{*} Customers do not need to take any action in order to transition to the RE-TOU rate, unless they would like to opt in to the rate early.

Customer Experience Strategy

Digital

- Website
- Explainer video
- My Energy
- Interval Data

Customer Comms

- Welcome Kit
- Automated Email Journeys
- Stickers

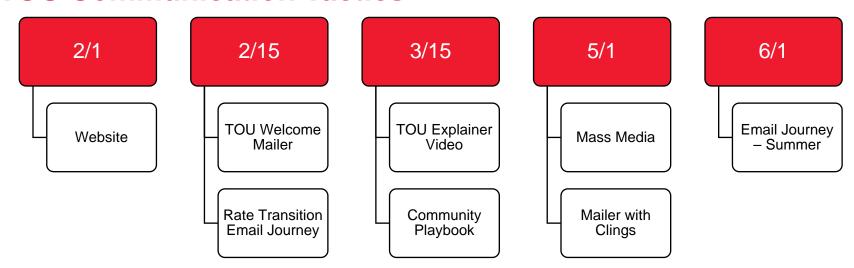
Mass Media

- Social Media
- Paid Media
- Rich Media

Community Engagement

 Community Playbook

TOU Communication Tactics



Primary goal of communications

- Educate on structure and timing of TOU rate
- Clearly communicate actions customers can take to benefit on TOU rate
- Direct customers to the website for more information
- Direct customers to My Energy to view their interval data

Examples

Paid Social



Explainer Video



Interval Data

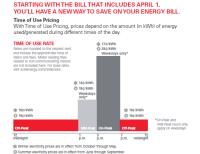


Examples

Email



Welcome Mailer



With the Time of Use rate, you'll pay less for electricity that you use earlier in the day, later in the evening and overnight, when wind energy is abundant. Electricity prices between 3 p.m. and 7 p.m. on weekdays will be higher—to better reflect the real costs to produce electricity. Mid-peak prices apply on weekdays from 1 p.m. to 3 p.m. (In weekends and holidays, only off-peak hours apply—there are no neak-hours.)

NEW PRICING CAN HELP YOU SAVE, AND IT HELPS BUILD A CLEANER FUTURE.

This newTime of Use rate will go into effect for Xcel Energy residential customers with new meters beginning with the bill cycle that includes

Running your appliances during off-peak hours will provide these benefits on the new rate:

- You can save money on your electricity bill.
- · You'll help use even more renewable energy.
- You'll help avoid the need to build new power plants in the future.

Want more info on Time of Use? Check out xcelenergy.com/TOU.

NEW TOOLS, NEW INSIGHTS INTO YOUR ENERGY USE.

Within your My Account, click the "My Energy" button to see your energy usage in IS minute increments. With this tool, you'll be able to find personalized tips to save energy and money. If you're not already enrolled in My Account, sign up now to make sure you can access all the new tools. Visit xeelenergy.com/MyAccount to get startly.

HAVE QUESTIONS ABOUT YOUR NEW TIME OF USE RATE?

Visit our website at xcelenergy.com/TOU for more information on how to be successful with Time of Use or to opt out and be placed on a flat rate instead. You may also email inquire@xcelenergy.com or call 800-895-4999.

Xcel Energy DSM Programs

Our automated email journeys also promote EE programs and explain how each can be used to help reduce peak demand:

- Smart thermostat promotions
- AC Rewards
- LED Lighting Kits
- Xcel Energy Storefront
- Home Energy Squad Visits
- EV charging programs



Research Projects

- DOE Cold Climate Heat Pump Challenge
 - Not a research project; this is a project to work with industry to manufacture new best-in-class equipment.
 - Xcel committed to the challenge and will build an incentive for new products when available.
- CU Building Energy Smart Technologies (BEST)
 - University of Colorado has created a new smart building research center with the City University of New York and the National Science Foundation.
 - Xcel joined as a founding member.
- Standalone Variable Capacity Heat Pumps
 - Xcel is funding research on heat pumps as direct air conditioner (AC) replacements.
 - Research question: how does a new class of VCHP that doesn't require matched components fare in our climate as a direct AC replacement (i.e. as a standalone outdoor unit)

Research Projects

- IAQ Market Research for Commercial Customers
 - Xcel is funding research on commercial building operations and IAQ.
 - Research question: How are customers operating buildings post-pandemic?
- 120V Heat Pump Water Heaters
 - Xcel, with other midwestern utilities, is funding modeling research on how these devices will fare in our territory.
 - Research question: how will 120V HPWHs fare in our (cold) climate?
- Lawrence Berkeley National Lab Beyond Widgets
 - Funded by DOE; Xcel is participating for the third year in a row.
 - Determine holistic packages of EE measures that can be bundled together for greater savings and reduced administrative costs.
 - Research question: What are the energy and economic savings for a medium sized office building performing a lighting and HVAC controls retrofit?
 - HVAC controls consist of Demand Controlled Ventilation (DCV), retuning the economizer, outdoor air scheduling, and MERV14 filters.

Share your product ideas

www.xcelenergy.com/productideas

