



RENEWABLE BATTERY CONNECT PRE-LAUNCH INFO SESSION 2

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To listen to the recording of this presentation click [HERE](#)

June 12, 2023

AGENDA

1. Renewable Battery Connect (RBC) Program Overview
2. Interconnection Application Process for RBC
3. Installer Responsibilities
4. Post-Application Process
5. Demand Management Events
6. Resources



RENEWABLE BATTERY CONNECT

Program Overview



Renewable Battery Connect: Overview

Get Rewarded For Using Renewable Energy And Supporting The Grid Of The Future

- Customers receive an upfront incentive and annual participation incentive for allowing Xcel Energy to automatically control their battery up to 60 times per year for 5-years with an event duration of up to 3-hours.
 - ✓ There will always be 40% remaining battery power after an event for customers to use as they would like
 - ✓ Xcel Energy will not schedule events ahead of forecasted severe weather
- Eligibility
 - ✓ Must interconnect new eligible battery equipment
 - ✓ Battery must be 100% charged by an on-site solar system
 - ✓ Must be an Xcel Energy Colorado electric residential or small business customer
 - ✓ Must maintain a 24/7 internet connection
 - ✓ Must own condo, home, townhome, or building where energy storage system is located

Program Summary

Renewable Battery Connect Program		
Programs	Renewable Battery Connect	Renewable Battery Connect Income Qualified/Disproportionately Impacted Communities (IQ/DIC)
2023 Budget & Capacity Release	\$2.4 Million (4 MW)	\$0.8 Million (1 MW)
Total 2022-2025 Budget	\$4.875 Million (8 MW)	\$1.625 Million (2 MW)
Upfront Incentive	<ul style="list-style-type: none"> \$500 per kW of Charge Rate (Max Continuous) Capped at 50% of actual battery cost 	<ul style="list-style-type: none"> \$800 per kW of Charge Rate (Max Continuous) Capped at 75% of actual battery cost
Yearly Participation Incentive	\$100/year for 5 years	
Contract Term	Renewable Battery Connect Agreement; 5-Year Term	
Customer Types	Residential and Small Business Customers (C Rates)	

What will be released in 2024 & 2025?

The Program will release additional capacity bi-annually beginning 2024: 1 MW for General and 0.25 MW for IQ/DIC twice per year. Unused capacity from previous periods will rollover.

Income Qualified Disproportionately Impacted Communities

Renewable Battery Connect IQ/DIC Program Attributes	
Eligibility	<ul style="list-style-type: none">• Xcel Energy Colorado electric residential customer that is Income Qualified or in a Disproportionately Impacted Community.• Customer owns a condo, home, townhome, or building where BESS is located.
Customer Type	Residential and Small Business Customers that are Income Qualified or in a Disproportionately Impacted Community
Contract and Terms	DER Interconnection Agreement and Renewable Battery Connect Agreement (5-year term)
Required Timeline	<ul style="list-style-type: none">• 18 months from application deposit received date• 6-month extension with forfeiture of deposit
Application Deposit	<ul style="list-style-type: none">• N/A

Application Agents are required to upload proof of Income Qualified and/or Disproportionally Impacted Communities Verification

Income Qualified Disproportionately Impacted Communities Residential Options

Proof for Income Qualification:

- A. Verification by Third Party - [Form](#)
- B. Proof of participation in Xcel Energy income qualified program within last 24 months
 - Copy of Xcel Energy Statement that shows Energy Assistance payment
- C. Current participation in federal or state programs (SNAP, TANF, etc.)
 - Letter of acceptance or similar documentation

Disproportionately Impacted Communities:

Located within census block group with an EnviroScreen score percentile $\geq 80\%$

How to check - Use State of Colorado's [EnviroScreen Tool](#) - See Appendix for details

Income Qualified Disproportionately Impacted Communities

Commercial Options

Income Qualified Community Service Provider:

Customer must be a non-profit corporation, governmental entity, or multifamily affordable housing provider. Requires proof that the entity provides essential services primarily to income qualified recipients. Proof can include annual report, 501(c)(3) form, and mission statement.

Disproportionately Impacted Community Service Provider:

Located in and service Disproportionately Impacted Communities and are one more of the qualified entity types (See Appendix).

Exception process in Appendix.

Upfront Incentive Calculations

Example incentive calculations based on max continuous power (kW):

Standard: Upfront incentive not to exceed 50% of cost

Tesla Powerwall + = 5.0 kW (battery inverter) x \$500 = \$2,500

SolarEdge Home Battery (with SolarEdge Home Hub Inverter) = 5.0 kW x \$500 = \$2,500

Income Qualified/Disproportionately Impacted Communities: Upfront incentive not to exceed 75% of cost

Tesla Powerwall 2.0 = 5.0 kW x \$800 = \$4,000

APPLICATION PROCESS

For Renewable Battery Connect Applications



Interconnection Basics

Please review the [Colorado DER Interconnection Portal Guide](#) for application basics

APPLICATION BASICS

Case Numbers, Statuses, and Actions

CASE NUMBER:

- A CASE NUMBER IS A UNIQUE IDENTIFYING NUMBER SPECIFIC TO YOUR APPLICATION

STATUS/ STEP/ SUB-STEPS:

- EACH CASE WILL HAVE A "STATUS", "STEP", AND "SUB-STEP" IDENTIFYING THE STAGE IN THE PROCESS
- APPLICATIONS WILL ALWAYS HAVE A STATUS/ STEP
- SUB-STEPS ARE ONLY APPLICABLE TO SOME STATUS/ STEPS

EACH "ACTION" WILL BE IN THE "OPEN", "DRAFT", OR "FINALIZED" STATUS.

OPEN:

- APPLICATION AGENT/INSTALLER'S RESPONSIBLY TO COMPLETE

DRAFT:

- APPLICATION AGENT/INSTALLER HAS COMPLETED THE ACTION BUT NOT YET SUBMITTED

FINALIZED:

- ACTION ITEM HAS BEEN COMPLETED AND SUBMITTED TO XCEL ENERGY FOR REVIEW

APPLICATION BASICS

Tips and Tricks

01
ACTIONS WILL OPEN IN A NEW TAB.

02
BE SURE TO CLICK "SUBMIT" ON THE LAST SCREEN OF THE ACTION TO SAVE YOUR CHANGES.

03
ONCE AN ACTION IS COMPLETED, CLOSE TAB AND RETURN TO THE HOME SCREEN. REFRESH THE URL OF THE HOME SCREEN TO SEE CHANGES.

04
VIEW COMPLETED MILESTONES, FINALIZED ACTIONS, AND APPLICATION DETAILS IN OTHER TABS ON THE HOME SCREEN.

05
BE SURE TO "SUBMIT" ONCE ALL ACTIONS ARE IN DRAFT TO ENSURE THE APPLICATION IS IN XCEL ENERGY'S QUEUE FOR REVIEW.

06
HOVER OVER THE "I" BESIDE FIELD NAMES TO VIEW HELP TEXT.

The screenshot shows a browser with two tabs: "Interconnection Application: IA3" and "DER CO Contact Management". The address bar shows the URL "https://der2qa-xcelenergy.cs196.force.com/Renew". A "Submit" button is visible, and a "New Construction" dropdown menu is highlighted with a red box and an arrow. Below the browser, the text "Your contact information has been saved." is displayed.


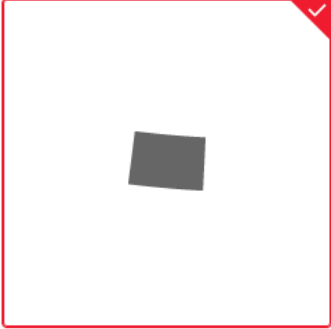

Renewable Battery Connect Program

Start a new Interconnection Application

Start a new Interconnection Application

***Required**

***Select State**



Minnesota Colorado Wisconsin

***Required**




***Select Application Type**

Application



Next

Selected State: **Colorado**
Selected Application Type: **Application**

***Select Program Type**




Solar*Rewards Solar*Rewards Community Distributed Generation



Empower Resiliency Renewable Battery Connect

Back **Next**

[DER Interconnection Application Portal Login](#)



Username

Password

Log In

[Forgot your password?](#) [Sign Up](#)

Renewable Battery Connect Products

Choose a product based on the customer project

*Required

* ProductType

- None--
- CO - 2023 Renewable Battery Connect (Battery Only)
- CO - 2023 Renewable Battery Connect + Solar DER
- CO - 2023 Renewable Battery Connect - IQ/DIC (Battery Only)
- CO - 2023 Renewable Battery Connect IQ/DIC + Solar DER
- CO - 2023 Renewable Battery Connect IQ/DIC + Solar Residential IQ/DIC

* County

* Zip Code

Back

Save

Renewable Battery Connect: Products

Select One Product from Dropdown:	Description:	Fees:
1. CO - 2023 Renewable Battery Connect (Battery Only)	New battery with existing solar	Application Deposit: \$50/kW of Charge Rate (Max Continuous) Engineering fee: \$100
2. CO – 2023 Renewable Battery Connect IQ/DIC (Battery Only)	New battery IQ/DIC with existing solar	Application Deposit: N/A Engineering fee: \$100
3. CO - 2023 Renewable Battery Connect + Solar DER	New battery with new solar (no REC)	Application Deposit:\$50/kW of Charge Rate (Max Continuous) Engineering fee: solar kW AC size
4. CO - 2023 Renewable Battery Connect IQ/DIC + Solar Residential IQ/DIC	New battery IQ/DIC with new solar IQ/DIC	Application Deposit: N/A Engineering fee: solar kW AC size
5. CO - 2023 Renewable Battery Connect IQ/DIC + Solar DER	New battery IQ/DIC with new solar (no REC)	Application Deposit: N/A Engineering fee: solar kW AC size

RBC Disclaimer Screen

Once a Renewable Battery Connect product is selected, a disclaimer screen appears to ensure the Application Agent enters approved equipment.

Please enter these values when populating the fields in Battery Details

Interconnection Application Requests for the Renewable Battery Connect Program must include approved equipment from the table below. Applications will not be approved for alternative batteries and inverters.

Eligible equipment includes Tesla Powerwall's and Powerwall +, SolarEdge Home Battery with a SolarEdge Home Hub Inverter.

Renewable Battery Connect Eligible Battery Equipment:

Storage Manufacturer	Storage Model	Charge Rate, Max Continuous (kW)	Storage Guidance Configuration
SolarEdge Technologies Ltd. Home Battery	BAT-10K1P	5.0	DC, Net Metered, 100% Renewable Export 3B/3BM
Tesla Inc. (Powerwall +)	1850000-XX-Y	5.0 (battery inverter)	AC, Net Metered, Non-Export 2C
Tesla Inc. (AC Powerwall)	1092170-xx-y	5.0	Net Metered, Non-Export 2C
Tesla Inc. (AC Powerwall)	2012170-xx-y	5.0	Net Metered, Non-Export 2C
Tesla Inc. (Powerwall 3)	1707000-XX-Y	5.0	DC, Net Metered, 100% Renewable Export 3B/3BM

Compatible Inverters for Eligible Battery Equipment:

Inverter Manufacturer	Inverter Model
SolarEdge Technologies Ltd. Home Hub Inverter	SE3000H-US-XXXXXX
	SE3800H-US-XXXXXX
	SE6000H-US-XXXXXX
	SE7600H-US-XXXXXX
	SE10000H-US-XXXXXX
SE11400H-US-XXXXXX	
Tesla Inc. (Powerwall +)	1538000-xx-y [208V]

Click "NEXT" to start the Renewable Battery Connect Interconnection Application.

Back

Next

Battery Details Action

Battery Details

1

* Application for: ⓘ

--None--

This form is required in addition to a completed Colorado DER Interconnection Process Application for any DER with an energy storage component. Additional information in the application may be required.

[CO Configuration Selection Tool Link](#)

[CO On-Site Solar Developer Resources](#)

Click on "New" to populate energy storage system details. Please answer as many questions as possible

Interconnection Application Requests for the Renewable Battery Connect Program must include approved equipment from the table below. Applications will not be approved for alternative batteries and inverters.

Eligible equipment includes Tesla Powerwall's and Powerwall +, SolarEdge Home Battery with a SolarEdge Home Hub Inverter.

2

Storage Guidance Configuration	Number of Units	Storage Manufacturer	Storage Model	Inverter Real Power, Max Continuou...	Inverter Apparent Power, Max Cont. ...	Inverter Power Factor Range	Real Power, peak AC Energy (kW)	Enabled operating modes	Storage UL 1741 CRD for PCS Compl...
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New

3

Manufacturer specification sheet(s) are required to be additionally attached.

* Is the storage 100% charged by a net energy metering eligible energy source? ⓘ

--None--

* Source charging the storage (check all that apply) ⓘ

Utility	▶	
Solar		
Wind	◀	
Diesel		
Other		

* If Other, please provide the other source charging the storage

* Is the storage configured to export energy to the Area EPS? ⓘ

--None--

* Are the settings accessible to the end user?

--None--

* What is the process for changing operational modes of the energy storage?

Submit

Battery Details

Application Type

1

Battery Details

* Application for: ⓘ

--None--

--None--

~~Stand-alone storage as DER~~

Storage as a component of DER

Storage as a component of existing DER

Stand-alone
Storage as
DER is not an
option for RBC

Example for a battery addition to existing solar:

Battery Details

* Application for: ⓘ

Storage as a component of existing DER

* Existing DER Type?

Solar PV

* Existing DER Size (kW AC)

5.000

Battery Details

Required Fields

2

Storage Guidance C...	Number of Units	Storage Manufacturer	Storage Model	Inverter Real Power, ...	Inverter Apparent P...	Inverter Power Facto...	Real Power, peak AC...	Enabled operating ...	Storage UL 1741 CR...
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New Storage Equipment

An error occurred while trying to update the record. Please try again.

Storage Guidance Configuration
--None--
Please populate the required field: Storage Guidance Configuration

Charge Rate, Max Continuous (kW)
You must enter a value: Enter kW of a single battery.

Battery Rated Capacity (kWh)
You must enter a value: Should be found on the nameplate or datasheet

Number of Units
You must enter a value: Enter the number of batteries being installed

Storage Manufacturer
You must enter a value: Example: Tesla, SolarEdge Technologies

Storage Model
You must enter a value: Example: 1850000-XX-Y

Enabled operating modes
Please populate the required field: Enabled operating modes

Available Operating Modes
Please populate the required field: Available Operating Modes

New

Yellow highlighted fields are included in calculation of the Upfront Incentive and Application Deposit (if required)

Battery Details

Additional fields that are required to be populated with specific answers for RBC

3

* Is the storage 100% charged by a net energy metering eligible energy source? ⓘ

Yes

* Source charging the storage (check all that apply) ⓘ

Utility

Wind

Diesel

Other

Solar

* If Other, please provide the other source charging the storage

None

FIELD	HELP TEXT
Number of Units	Enter the number of batteries being installed
Enabled operating modes	For example: backup, daily consumption, peak shaving, time-of-use, etc.
Available Operating Modes	For example: backup, daily consumption, peak shaving, time-of-use, etc.
Is the storage 100% charged by a net energy metering eligible energy source?	Is the storage 100% charged by a net energy metering eligible energy source? select YES
Source charging the storage	DROPDOWN: select SOLAR
Are the settings accessible to the end user?	Y/N
What is the process for changing operational modes of the energy storage?	Free text field For example: through the Tesla App
Is the storage configured to export energy to the Area EPS?	Y/N Will the storage system export stored energy to the grid?

Fees

Battery only applications are a \$100 engineering fee Solar and battery engineering fee is based on solar kW AC size

Please see directions below for online payment. If preferred, fee(s) can always be paid traditionally via check/wire and form.

- Fee invoice(s) will not be available on the Wells Fargo payment site until the following day from when applicant arrives at a particular status/step that requires payment (e.g. Initiate Application / Draft).
- Please be sure to wait 24 hours to submit payment.
- Payments will post to the applicable application ID the day after payment is made to Wells Fargo (another 24 hours).
- Please enter Primary Authorization Code **SR-10937239** and Secondary Authorization Code **3022** to complete online payment with Wells Fargo.
- Primary and Secondary codes are unique to your account. Once an account is set-up, you can use the same codes for each application as needed.
- Credit card payment will not be accepted.

Payment Details:

Item Description	Invoice Number	Amount Due	Due Date	Payment Status
Engineering Process Fee	04096158-PN-0003899	\$100.00	Jul 4, 2023	Not Paid

Please click the 'Pay Fee Online' button for online payment.

Pay Fee Online

Application deposits are **not** required for Income Qualified/Disproportionately Impacted Communities products

For all other RBC products, the application deposit will be refunded if the application reaches Permission to Operate within 18-months from the application deposit received date

Prepare Documents

- Diagrams must show the battery configuration and set up along with the new or existing solar system
- IQ/DIC applications must upload proof of Income Qualified/Disproportionally Impacted Communities Verification

ACTION NAME	DESCRIPTION	STATUS	RESPONSIBLE PARTY	REQUIRED?	ACTION
One-Line Diagram	Show the installation of the DER system and associated equipment required within your interconnection application.	Open	Applicant	<input checked="" type="checkbox"/>	Action
Proof of Income Qualified/ Disproportionally Impacted Communities Verification	Please upload documentation validating the proposed system serves a customer that meets the Income Qualified/Disproportionally Impacted Communities requirements. Income Qualified eligibility requirements are available here: (link to come in future). Disproportionally Impacted Communities eligibility requirements are available here: (link to come)	Open	Applicant	<input checked="" type="checkbox"/>	Action
Site Plan	Show the location plan identifying location of equipment noted on the one-line.	Open	Applicant	<input checked="" type="checkbox"/>	Action

Xcel Energy Agreements

System Owner will Sign Agreements

- Renewable Battery Connect Agreement

ACTION NAME	DESCRIPTION	STATUS	RESPONSIBLE PARTY	REQUIRED?	ACTION
Renewable Battery Connect Agreement(Application Agent)	Please check your email and sign all required eSignature documents to advance your application to the next step.	Open	Applicant	<input checked="" type="checkbox"/>	Action

- CO DER Interconnection Agreement

If storage system is third-party owned, the Customer will sign a Host Acknowledgement form

- Host Acknowledgement

Signing Process

- An email is sent to the Application Agent and/or the interconnection Customer with a link to e-sign documents (sertifi.net)
- Once all signatures have been collected, the status will be marked as "Draft" and the application will be able to advance to the next step

Final Installation Details

Design and Construction > Documents Pending



Final Battery Cost

Overall, Battery Energy Storage System (BESS) cost is the actual cost of the battery plus (if not integrated into or with the BESS) the inverter, (if not an integrated system) exclusive of tax and installation costs. Not to include other financial incentive, including state or federal program or tax credit.



Serial#/Unit IDs

Four fields available to type in the Serial # of each Powerwall or the Unit ID of each SolarEdge Home Battery



SR/DG Final Electrical Inspection

Upload inspection

Installer Responsibilities

Details Necessary for Renewable Battery Connect Applications

<p><u>Application Product</u> Select from one of five Renewable Battery Connect Products that match the Customer project</p>	<ul style="list-style-type: none">• CO - 2023 Renewable Battery Connect (Battery Only)• CO - 2023 Renewable Battery Connect - IQ/DIC (Battery Only)• CO - 2023 Renewable Battery Connect + Solar DER• CO - 2023 Renewable Battery Connect IQ/DIC + Solar Residential IQ/DIC• CO - 2023 Renewable Battery Connect IQ/DIC + Solar DER
<p><u>System Details</u> If Battery Only product: must enter "Existing System = YES"</p>	<ul style="list-style-type: none">• Renewable Battery Connect application will be "New DERs"• If Battery Only product, must enter "Existing System = YES" and "Existing DG Size (kW AC)"• If adding solar, enter Array and Inverter details• Pro tip: Complete System Details action before Application Details action
<p><u>Battery Details</u> Input eligible equipment and details: Manufacturer, Model, Charge Rate, Max Continuous (kW) etc.</p>	<ul style="list-style-type: none">• Click on "<u>New</u>" to populate energy storage system details.• Is the storage 100% charged by a net energy metering eligible energy source? = YES• Source charging the storage (check all that apply) = SOLAR• If Other, please provide the other source charging the storage = NONE
<p><u>Site Plan & Line Diagram & Declaration</u> Must show new or existing solar system set up and the battery configuration</p>	<ul style="list-style-type: none">• AC nameplate rating (kW) and dc system capacity (kW) system size matches application (can be in kW or watts)• List Storage Guidance Configuration; AC Net Metered, Non-Export 2C or DC Net Metered, 100% Renewable Export 3B/3BM• Upload Declaration
<p><u>Final Information</u> Populate Actual Battery Cost and Serial #/Unit IDs</p>	<p>Actual Battery Cost: Overall, Battery Energy Storage System (BESS) cost is the actual cost of the battery plus (if not integrated into or with the BESS) the inverter, (if not an integrated system) exclusive of tax and installation costs. Not to include other financial incentive, including state or federal program or tax credit.</p>

POST-APPLICATION PROCESS

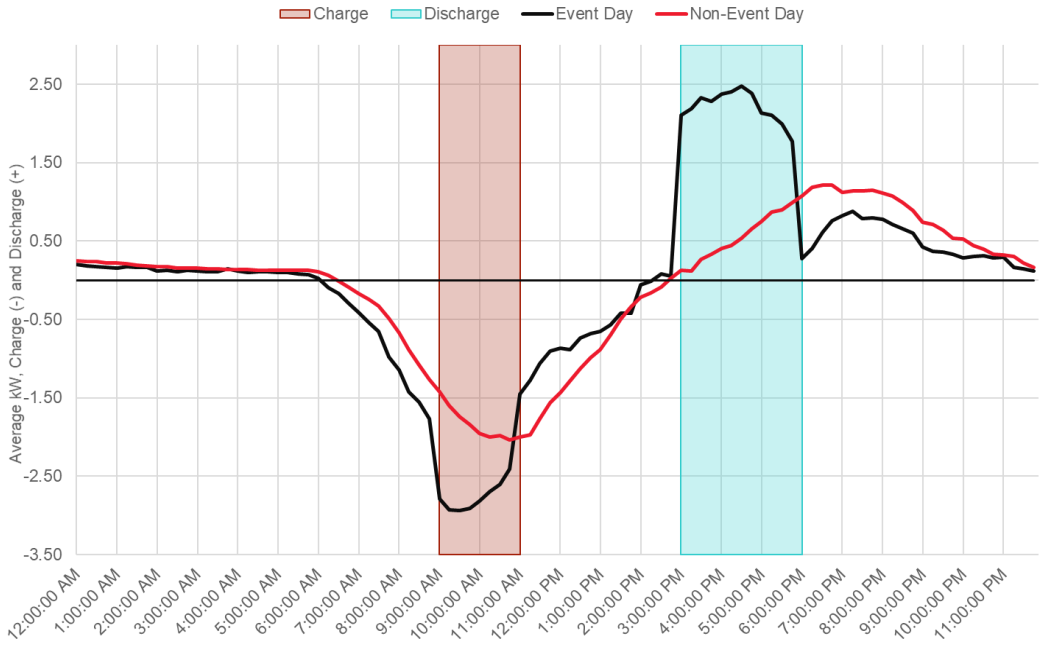
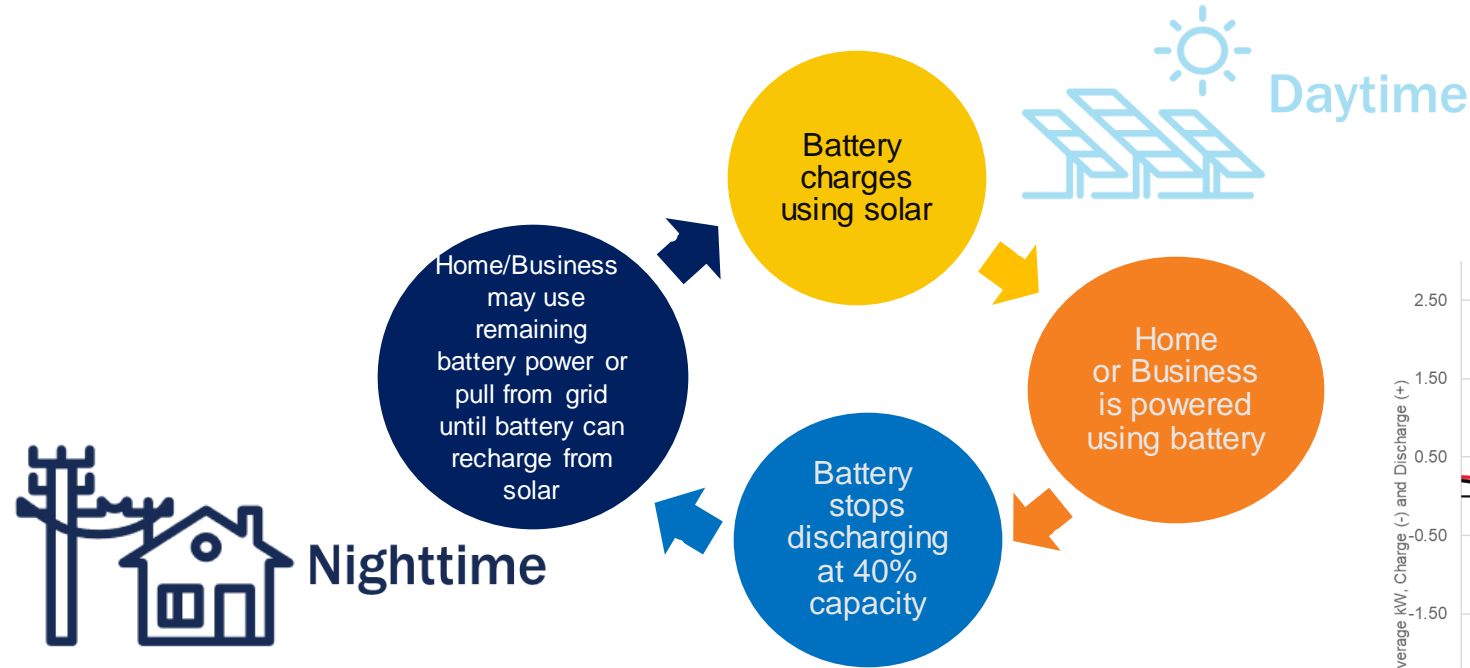
Vendor Set up for VPP experience



Renewable Battery Connect: Program Design

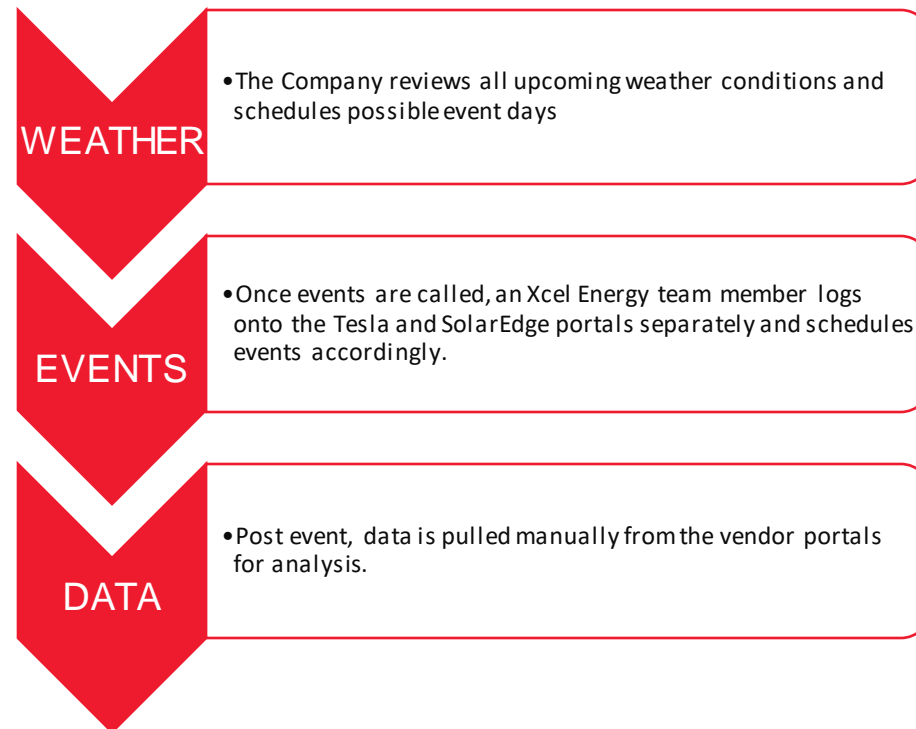
Renewable Battery Connect will continue to test how residential and small commercial batteries can integrate with the energy grid and leverage solar energy as Xcel Energy works toward being carbon-free by 2050.

The main objective of the program is to reduce grid usage via solar generation during periods of peak demand.



Renewable Battery Connect: Control Events

The Xcel Energy Demand Management team will create up to four separate dispatch customer groups. Groups are dispatched according to a staggered plan based on irradiance, temperature, and alert levels. Currently all Program events will be done manually.



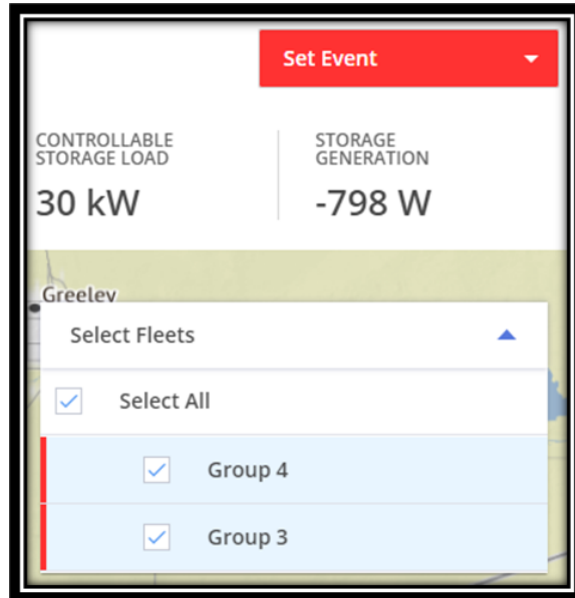
Severe Weather Events: The Company will refrain from calling any events at least 48 hours in advance of a projected severe weather event to minimize the chance of discharging prior to a storm where the customer may lose power. Tesla's Storm Watch mode follows National Weather Service alerts and RBC aligns with this.

Renewable Battery Connect: Demand Management Attributes

Solar Charging	Battery charged by 100% renewable energy (must be paired with solar)
Event Dispatch	Up to 60 events annually
Event Duration	Up to 3-hours per event (24-hour charging period)
Event Season	Year-round (24/7 excluding holidays and weather events)
BESS Connection	Cellular or Wi-Fi connection to Vendor software
Eligible Equipment	Tesla Powerwall (all models), SolarEdge Home Battery (with SolarEdge Home Hub Inverter) must be a new battery installation
BESS Energy	PSCO may use up to 60% of the nameplate storage capacity (in kWh) of the BESS

Enrollment in Tesla App Experience

Tesla Set Up



- Powerwall operating modes defaults: solar self-consumption; time-based control; and backup.
- At least forty percent (40%) of the battery energy capacity must be reserved for System Owner use during control events.
- The battery will return to normal behavior upon completion of a control event.
- The Tesla platform will prepare sites for dispatch and execute the event, taking into account individual site constraints and storm watch event prioritization.
- In the Tesla App, customers will be able to see that they are participating in an Approved Aggregation Program. It may also show the cumulative response of the aggregation and their own contribution.

Enrollment in SolarEdge Monitoring Site

SolarEdge Set Up

Figure 2: Real Direct Control Input Form

The screenshot shows a mobile application interface for configuring a Real Direct Control Input Form. At the top left, there are icons for a percentage sign and a double arrow. Below these is a '<< BACK' button. The form contains several input fields: 'Start Date' with a date picker showing 'mm/dd/yyyy', 'Start Time' with a time picker showing '---:--:--', 'Duration' with an empty text input, 'Time Measure' with a dropdown menu, 'Real Power' with a text input containing '5' and a 'kW' unit label, and 'Distribution' with a dropdown menu showing 'Type'. At the bottom of the form is a 'DISPATCH' button.

- All participating sites must be created in SolarEdge Monitoring and the SolarEdge Monitoring Site ID to be supplied to Xcel Energy via the interconnection application.
- Once the interconnection process is completed, site information will be routed to SolarEdge by Xcel Energy and batteries will be enabled for event participation.
- Batteries configured to Backup Only, Maximize Self Consumption, or custom Installer/SolarEdge profiles are eligible to participate in the program.
- The 40% backup reserve minimum will be enforced during events, and sites will return to normal operation at the end of each event.

CONCLUSION AND RESOURCES



Successful Outreach Relies on Informed Solar/Battery Installers

It is vital that Xcel Energy connects with solar and battery installers to provide resources to discuss Renewable Battery Connect with our mutual customers

Xcel Energy coordinates closely with Tesla and SolarEdge to promote the program among their battery installer networks

Tesla and SolarEdge manage the equipment verification in their Virtual Power Plants and prepare sites for program participation

Renewable Battery Connect: Resources

Program Webpage: [Battery Connect | Renewable Energy](#)

- ✓ [Customer Information Sheet \(PDF\)](#)
- ✓ Renewable Battery Connect Agreement (sample)
- ✓ Eligible Battery Equipment (PDF)

Renewable Battery Connect Details

- How it works
- Eligibility
- To Enroll
- For Solar Battery Providers
- Additional Information
 - [Renewable Battery Connect Information Sheet](#)
 - [Renewable Battery Connect Agreement \(sample\)](#)
 - [Renewable Battery Connect Eligible Equipment](#)

Installer Resources: [On-site Solar | Renewable Developer Resources](#)

- ✓ Pre-launch Info Session Presentations 1
To listen to the recording of presentation 1 click [HERE](#)
- ✓ Pre-launch Info Session Presentations 2
Includes RBC portal process for Installers

Renewable Battery Connect

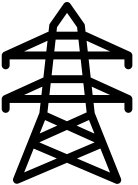
Electric customers who install eligible solar battery equipment may earn an incentive for participating in the Renewable Battery Connect Program. Xcel Energy will charge or discharge up to 60% of a solar powered battery up to 60 times per year to reduce energy demand on the electric grid. The program is open to Xcel Energy Colorado electric residential or small business customers who install either a Tesla Powerwall (all models) or a SolarEdge Home Battery. The battery owner signs an agreement and receives a one-time upfront incentive and annual participation incentive for five years. Interested customers can learn more on our [Renewable Battery Connect](#) page.

[Information session for solar battery installers \(May 4, 2023\)](#)

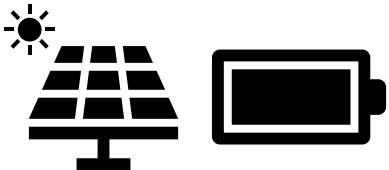
Renewable Battery Connect: Customer Benefits



Receive a lucrative incentive for installing eligible battery equipment.



Add stability to the electric grid when using your solar charged battery to reduce energy use during periods of peak demand.



Help lead the clean energy transition by integrating your solar and storage system.

RENEWABLE BATTERY CONNECT
GET REWARDED FOR USING RENEWABLE ENERGY AND SUPPORTING THE GRID OF THE FUTURE

INFORMATION SHEET
COLORADO

Xcel Energy

After installing a solar system, a growing number of homeowners and small businesses are adding leading-edge battery systems for the financial benefits of storing solar power, signing with time-of-use rates, and outage back-up advantages.

If you will be purchasing a battery model that qualifies for our Renewable Battery Connect program, you can make the most of your investment. Interconnecting your solar and battery system to our grid through our Renewable Battery Connect program provides a lucrative upfront incentive to support you.

When you participate in Renewable Battery Connect, you will allow Xcel Energy to automatically manage your battery during periods of peak demand. Reducing demand during the control events helps stabilize the electric grid by using your solar charged battery to reduce energy use.

How it works

- Your solar battery installer will work with us to establish interconnection to our grid through an interconnection application submitted to our grid through the Renewable Battery Connect program.
- We schedule a demand response event based on high demand periods (normally the hottest days of the year during the afternoon and evening)—which includes the charge and discharge of your battery. These events will be called year-round to have the batteries support the energy grid.
- After we discharge the battery, it will recharge at the earliest time possible from the solar system.
- During a control event, you'll be able to see how your battery is being used by logging into Tesla's or SolarEdge's mobile app.
- You will always have 40% of the battery power reserved. You're able to choose how to use the remaining 40% of your battery—either reserve for a power outage or save for other uses.
- Non-event periods make the entire amount of the battery available for your use.

Renewable Battery Connect Benefits

- Rewarding incentive for installing eligible battery equipment:
 - \$500 per kW of storage capacity (up to 50% of the equipment-only cost)
 - \$800 per kW of storage capacity for income-qualified customers (up to 75% of the equipment-only cost)
- \$100 annual participation incentive for participating in most control events
- Lead the clean energy transition by integrating your solar and storage system
- Keeping the grid reliable, resilient and secure
- Helping to keep electric costs low for your community

What's next

Ensure your solar battery installer submits an interconnection application and is approved for interconnection in the Renewable Battery Connect program.

We will then confirm with Tesla or SolarEdge that your battery has been installed and is ready to participate in the program. Then we will issue you as the system owner a one-time incentive approximately 60 days after the operation date.

If you have questions about Renewable Battery Connect, contact us at BatteryConnect@xcelenergy.com.

Battery Details

Approved Equipment

RENEWABLE BATTERY CONNECT ELIGIBLE BATTERY EQUIPMENT			
Storage Manufacturer	Storage Model	Charge Rate, Max Continuous (kW)	Storage Guidance Configuration
SolarEdge Technologies, Inc. Home Battery	BAT-10K1P	5.0	DC, Net Metered, 100% Renewable Export 3B/3BM
Tesla Inc. (Powerwall+)	1850000-xx-y	5.0 (battery inverter)	AC, Net Metered, Non-Export 2C
Tesla Inc. (AC Powerwall)	1092170-xx-y	5.0	AC, Net Metered, Non-Export 2C
Tesla Inc. (AC Powerwall)	2012170-xx-y	5.0	AC, Net Metered, Non-Export 2C
Tesla Inc. (AC Powerwall)	3012170-xx-y	5.0	AC, Net Metered, Non-Export 2C
Tesla Inc. (Powerwall 3)	1707000-xx-y	11.5	DC, Net Metered, 100% Renewable Export 3B/3BM

COMPATIBLE INVERTERS FOR ELIGIBLE BATTERY EQUIPMENT	
Inverter Manufacturer	Inverter Model
SolarEdge Technologies, Inc. Home Hub Inverter	SE3800H-US-XXXXXX SE6000H-US-XXXXXX SE7600H-US-XXXXXX SE10000H-US-XXXXXX SE11400H-US-XXXXXX
Tesla Inc. (Powerwall+)	1538000-xx-y [208V]

Please enter these values when populating the fields in Battery Details

Renewable Battery Connect Program Launch



Launch
Tuesday, June 20th



Questions

APPENDIX

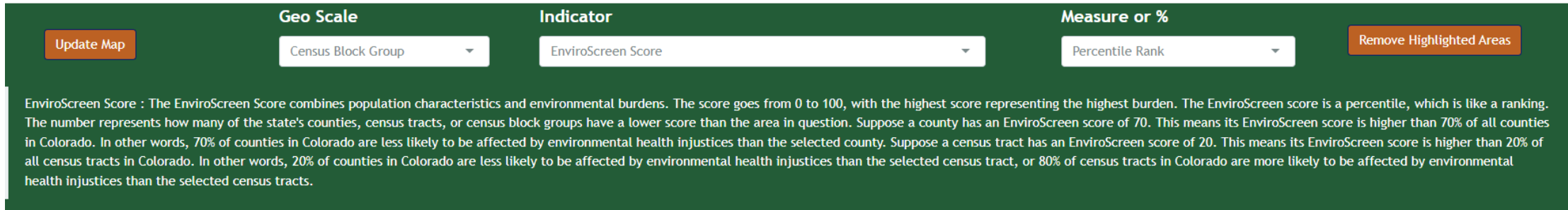
Disproportionately Impacted Communities

EnviroScreen Tool

[EnviroScreen Tool](#) - See Appendix for details

How to Use the tool:

Set Geo Scale to 'Census Block Group' and click 'Update Map'



The screenshot shows the top control panel of the EnviroScreen Tool. It features a dark green background with several interactive elements:

- An orange button labeled "Update Map" on the left.
- A dropdown menu labeled "Geo Scale" with "Census Block Group" selected.
- A dropdown menu labeled "Indicator" with "EnviroScreen Score" selected.
- A dropdown menu labeled "Measure or %" with "Percentile Rank" selected.
- An orange button labeled "Remove Highlighted Areas" on the right.

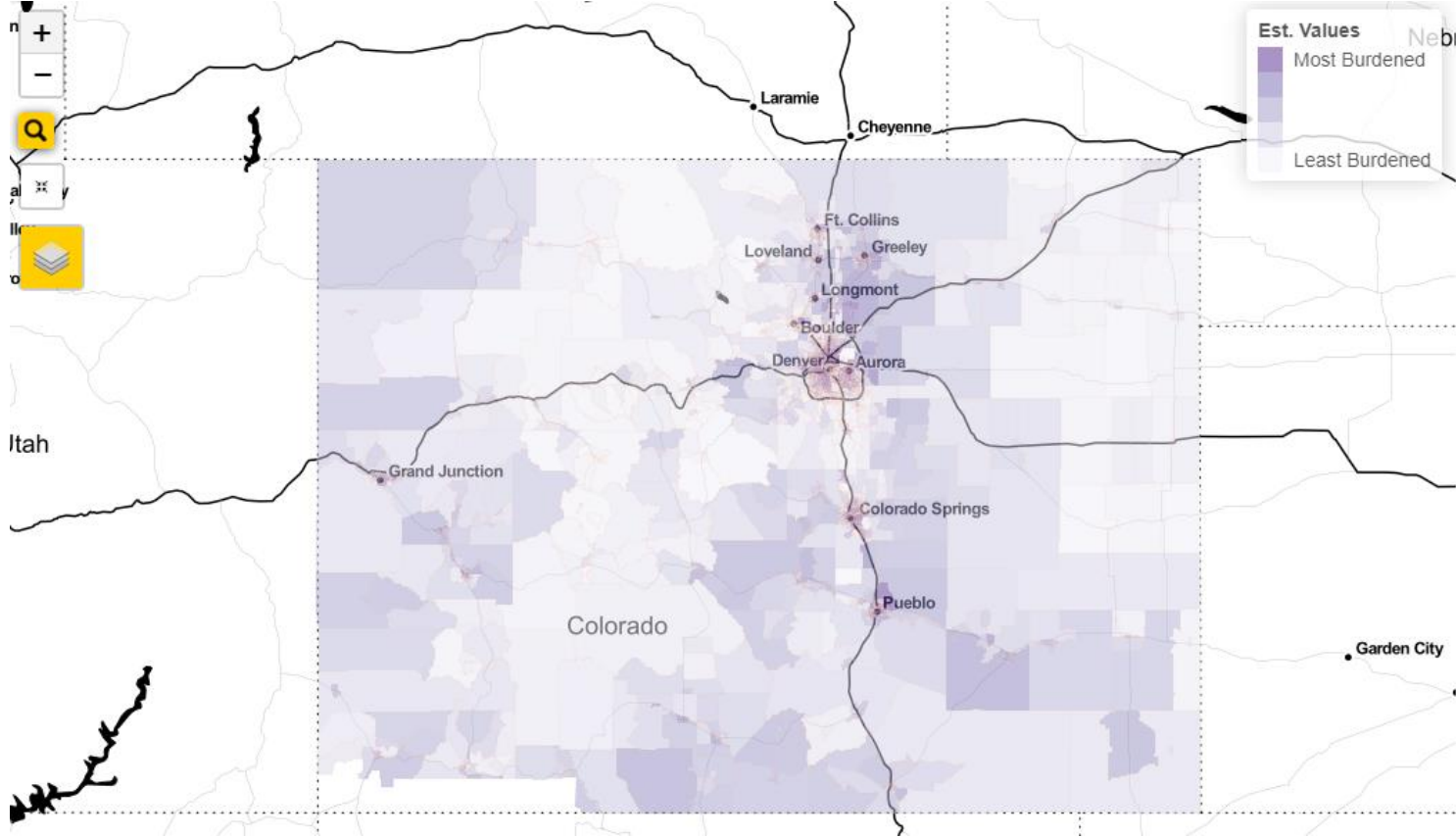
Below the control panel, there is a text box explaining the EnviroScreen Score:

EnviroScreen Score : The EnviroScreen Score combines population characteristics and environmental burdens. The score goes from 0 to 100, with the highest score representing the highest burden. The EnviroScreen score is a percentile, which is like a ranking. The number represents how many of the state's counties, census tracts, or census block groups have a lower score than the area in question. Suppose a county has an EnviroScreen score of 70. This means its EnviroScreen score is higher than 70% of all counties in Colorado. In other words, 70% of counties in Colorado are less likely to be affected by environmental health injustices than the selected county. Suppose a census tract has an EnviroScreen score of 20. This means its EnviroScreen score is higher than 20% of all census tracts in Colorado. In other words, 20% of counties in Colorado are less likely to be affected by environmental health injustices than the selected census tract, or 80% of census tracts in Colorado are more likely to be affected by environmental health injustices than the selected census tracts.

Disproportionately Impacted Communities

EnviroScreen Tool Continued

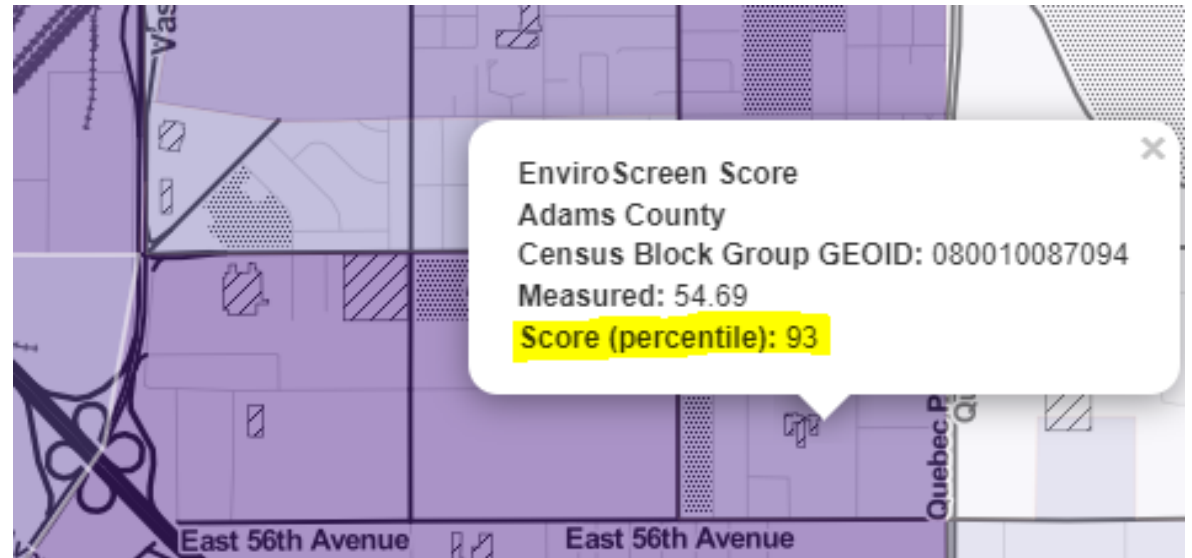
Search Address
by clicking icon



Disproportionately Impacted Communities

EnviroScreen Tool Continued

Customer is in qualifying area if 'Score (percentile)' is at least 80.



Disproportionately Impacted Communities

Commercial Customers

Service Provider Entity Types

- Public libraries, community centers, public recreation centers, nonprofit organizations, licensed early childcare facilities providing services to or scholarships for IQ households, public pre-Kindergarten through grade 12 schools, governmental entities, places of worship, locally-owned¹ commercial businesses that are not a franchise², a franchise or chain with less than five locations in Colorado³, or a multifamily housing income-qualified eligible organization.
- Customers that are not a qualifying entity type may petition the Company for DI-Community incentive eligibility by providing a description, below, of their organization and explaining how they serve the DI community where they are located. The Company will approve such requests on a case-by-case basis.

¹A business is considered to be locally owned if the business receiving the incentive is located inside of a DI Community eligible area as defined above, and the primary business owner completes an attestation form confirming that they also are located inside of an eligible DI Community.

²Excluding marijuana and liquor sales, manufacturing, or distribution.

³Excluding marijuana and liquor sales, manufacturing, or distribution. Larger franchises may petition for eligibility via petition. Within the petition, larger franchises should explain what special programs and services they offer to the community that are unique to the location in a disproportionately impacted community or explain how they would reinvest savings from the enhanced incentive into higher wages, lower prices, or benefits to the community.

