



Compliance Review Committee
Energy Cooperation Agreement
July 6, 2023



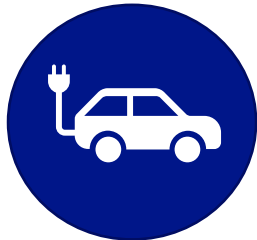
Key Takeaways: Benefits of the ECA



Community Benefits



Energy Equity



GHG Reduction



Reliability/Resilience

Energy Cooperation Agreement (ECA)



Sections 1-4: Cooperation Under the ECA

Section 5: Clean Energy Collaboration Opportunities

Section 6: Safe Energy Collaboration Opportunities

Section 7: Reliable Energy Cooperation Opportunities

Section 8: Equitable Energy Cooperation Opportunities

Section 9: Ensuring Transparency

Cooperation Under the ECA

- **Cooperative, Unified Response (Section 1)**
 - We have been working since May 25, 2021, to implement specific projects and work streams under ECA that further the City's goals to achieve 100% clean energy and net zero GHG emissions
- **Implementation Plan (Section 2)**
 - Implementation finalized on March 8, 2022
 - Shared with Environment Committee on March 18, 2023
 - Will continue to update the Plan
- **Living Agreement (Section 3)**
 - Will convene a Cooperation Agreement Summit in 2024, chaired by Mayor and President (or similar) of SDG&E
- **Costs (Section 4)**
 - City and SDG&E are cooperating to determine appropriate funding sources for ECA including:
 - Ratepayer funding pursuant to approval from the California Public Utilities Commission
 - Funding from the California Energy Commission; local, state and federal grants, and
 - Other sources

Clean Energy Collaboration

San Diego Community Power (Section 5(a))

Focus: Delivering clean energy to residents, support CAP

- A dedicated SDG&E team works closely with SDCP on transition, billing and other efforts for a seamless experience
- SDCP and SDG&E staff have established mutual goals and objectives for customer experience, mutual support, regulatory compliance and access to utility customer data
- All eligible City of San Diego customers including NEM customers – a total of nearly 600,000 - have completed transition to SDCP service as of January 31
- SDCP provides service to just over 900,000 customers across seven member jurisdictions

Evaluate Energy Efficiency and Demand Response Opportunities with SDCP (Section 5(b))

Focus: Identify energy efficiency and demand response for residents

- SDCP and SDG&E hold a regional bi-monthly meeting with all CCAs on program development and coordination.
- Program staff develop joint agendas and discuss opportunities across all program types, including energy efficiency, demand response and clean transportation programs
- SDG&E responded to multiple requests for information and review of its program offerings in order to provide insight and transparency for the development of SDCP's approved Community Power Plan (CPP)

Clean Energy Collaboration (cont.)

Enhanced Tree Planting (Section 5(c))

Focus: Ensure that we are planting the right trees in the right place to help keep communities cool and capture carbon; support CAP and reduce GHG

Tree Planting Goal: plant up to 2,500 trees in 10 years

Status: 1,360 planted to date, including ~980 trees in Allied Gardens, Cherokee Point, and Bay Terraces in collaboration with City Forrester

- Supports SD Parks Foundation efforts to accelerate tree planting in community parks in underserved communities
- Donated \$150,000 for tree planting to SD Parks Foundation since 2021

Expand Green Waste Recycling (Section 5(d))

Focus: Reduce carbon footprint by utilizing and diverting waste; support CAP and reduce GHG

- Continue to work to identify vendors to receive green waste
- Have had preliminary discussions on using waste as a fuel source
- 5,779 short tons (~11,800 pounds) of green waste diverted by SDG&E from the Miramar landfill in 2022 (~51% of its total waste)

2023-2024 SD Parks Foundation & SDG&E Commitment

Park	Zip Code	Neighborhood	# of Trees
Mesa Verde Park	92126	Mira Mesa	26
Lomita Park	92114	Skyline Hills	25
Officer Wilson Park	92114	Skyline	26
Montgomery Waller	92154	Otay Mesa West	25
Southcrest Trails	92113	Southcrest	23
NTC Park	92106	Liberty Station	23



Clean Energy Collaboration (cont.)

Focus: Expand clean transportation infrastructure & vehicles to support CAP and reduce GHG

Expand Clean Transportation Efforts (Section 5(e))

Host events to educate public about EVs:

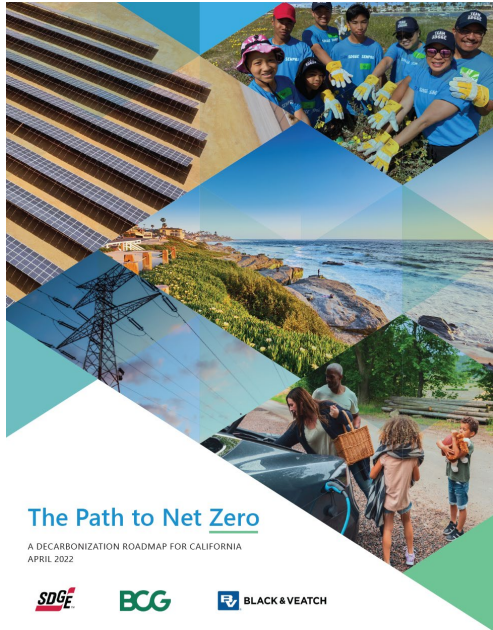
- EV Fleet Day (April 7, 2022; April 6, 2023)
- EV Adaptive Ride & Drive & Community Day (July 2022)
- EV Day at Liberty Station (October 2022)
- EV, Adaptive Ride and Drive and Community Day at Snapdragon Stadium (Fall 2023)
- Sponsored the annual iVIE Student Awards & Film Festival with Media Arts San Diego, which includes #LOVELECTRIC featuring student videos exploring the world of EVs.



Collaborate and support the city to achieve its CAP:

- Accelerate 2 Zero (A2Z) Emissions Collaboration is developing a ZEV Strategy, expected Q3 2023
- Work with Public Utilities Dept to expand the City's municipal EV medium/heavy-duty fleet by installing chargers to support Ford F-150 Lightnings
- Provided letter of support for the City's Charging and Fueling Infrastructure grant application with USDOT to install public EV charging at local beaches, libraries and rec centers (June 2023)
- Support City Tenant Charging Stations Working Group Meeting 1- External, City's Real Estate Department (June 2023)
- Analyzing load for existing electrical infrastructure at ~100 city libraries and parks to identify high potential EV charging sites
- Launched a redesigned LOVELECTRIC website, with new self-service tools, to educate customers about the benefits of EVs and process of charging installation (June 2023)

Clean Energy Collaboration (cont.)



Energy Benchmarking (Section 5(f))

Focus: Provide data to assist City in its implementation of CAP

- Provided energy use data on eligible commercial and multifamily buildings, pursuant to AB 802, to the City for 2020-2022
- Created an enhancement to identify changes to existing meter numbers such as new meter installations and removals in field (April 2023)

Municipal Energy Strategy (Section 5(g))

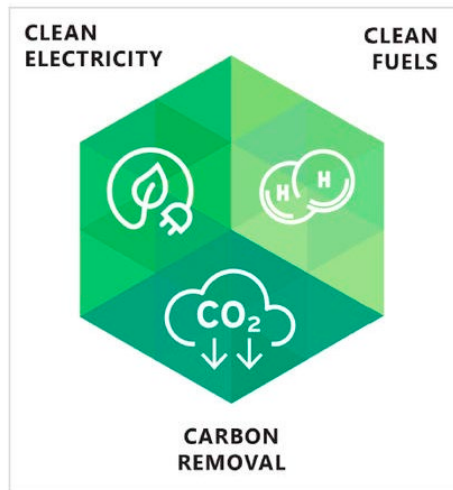
Focus: Support City to electrify buildings to reduce GHGs and support CAP

- Work with City on an electrification working group to identify potential sites, timelines, resources, and data needed to begin an electrification roadmap

GHG Reduction Analysis (Section 5(h))

Focus: Provide data, analysis and information to accelerate electrification; reduce GHGs and support CAP

- Released Path to Net Zero study, which offers roadmap to help meet the challenge of achieving California's goal of carbon neutrality by 2045 (April 5, 2022)
- Met with City officials to discuss findings and to collaborate on opportunities to help the City achieve its accelerated Climate Action Plan (CAP) goal of Net Zero by 2035



Clean Energy Collaboration (cont.)

GHG Reduction Analysis (Section 5(h)) (cont.)

Focus: Accelerate electrification to reduce GHG in support of CAP

SDG&E is building 3 new microgrids in the City, which add battery energy storage to existing substations:

- **Clairemont substation microgrid (9MW/30MWh):** backup power for Balboa Branch Library/Cool Zone, Fire Station 36, and local schools (Lafayette and Sequoia Elementary, Innovation and CPMA Middle and Madison High)
- **Paradise substation microgrid (10MW/40MWh):** backup power for Fire Stations 51 and 32, the Southeast Division of the Police Department, Bell Middle School, and Freese, Boone and Fulton Elementary
- **Elliott substation microgrid (10MW/40MWh):** backup power for Fire Station 39, the Tierrasanta Public Library/Cool Zone, Tierrasanta Medical Center, Farb Middle, Canyon Hills High, and Tierrasanta and Kumeyaay Elementary



Safe Energy Collaboration

Wildfire Safety (Section 6(a))

Focus: Public Safety--delivery of safe and reliable energy for residents.

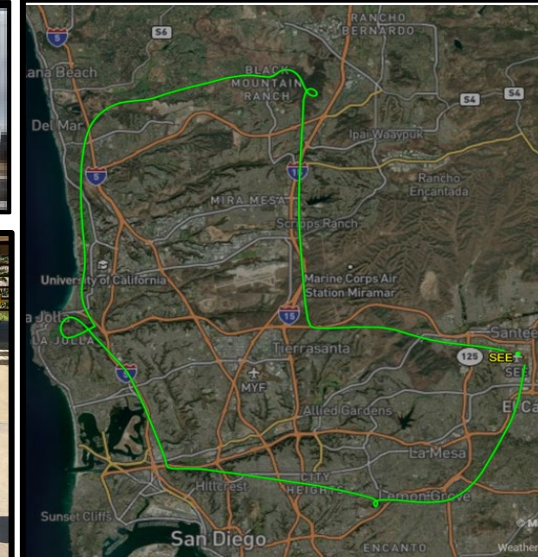
- Knowledge regarding science, situational awareness technology and subject matter expertise is shared and applied to strategic infrastructure hardening to enhance public safety and community resilience
- SDG&E shares with the City the best available fire science, situational awareness and fire suppression tools by:
 - Providing access to all weather station data through websites and GIS links
 - Providing all members of San Diego Fire and Rescue with the daily Fire Potential Index to support operations
 - Expanding the weather network to monitor fire danger in coastal canyons in the city
 - Working with San Diego Fire and Rescue, SDG&E added a fuel moisture sensor in Mission Valley
 - Funding firefighting aircraft have responded to wildfires within city limits
 - Deploying drone inspection programs of all infrastructure near coastal canyons to mitigate wildfire risk
 - Sharing intel on highest risk areas to inform and help prioritize undergrounding efforts in the city
 - Collaborating with city EOC and sharing best practices

Safe Energy Collaboration (cont.)

Increase Safety and Resiliency through Energy Intelligence (Section 6(b))

Focus: Provide data and information to assist City in its public safety efforts

- Aviation Program
 - Joint flight with SDG&E Ericson and Helistream helicopter pilots over San Diego City response area.
 - Discussions regarding integrating training and operations at Pata Ranch training site
 - Additional situational awareness flights are being scheduled
 - Incident Support Vehicle (ISV) MOU
- Joint Planning
 - Collaborate with City OES on emergency plans and special events plans
- Training
 - Firefighter training – Electric and Gas Emergencies



Safe Energy Collaboration (cont.)

Increase Safety and Resiliency through Energy Intelligence (Section 6(b)) (cont.)

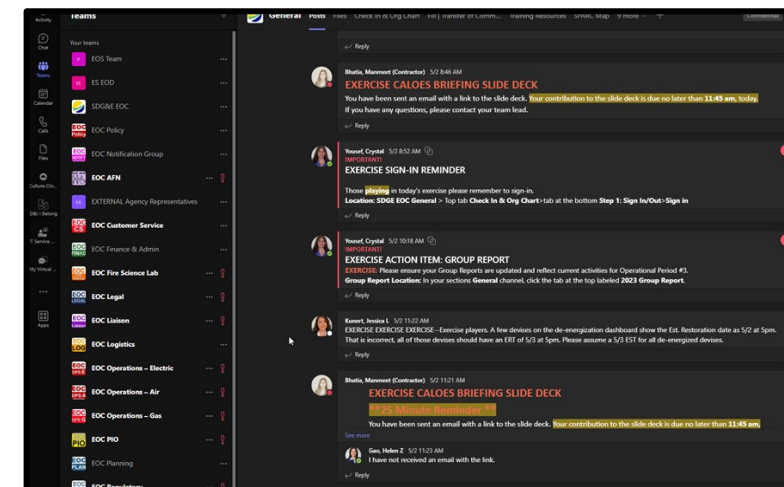
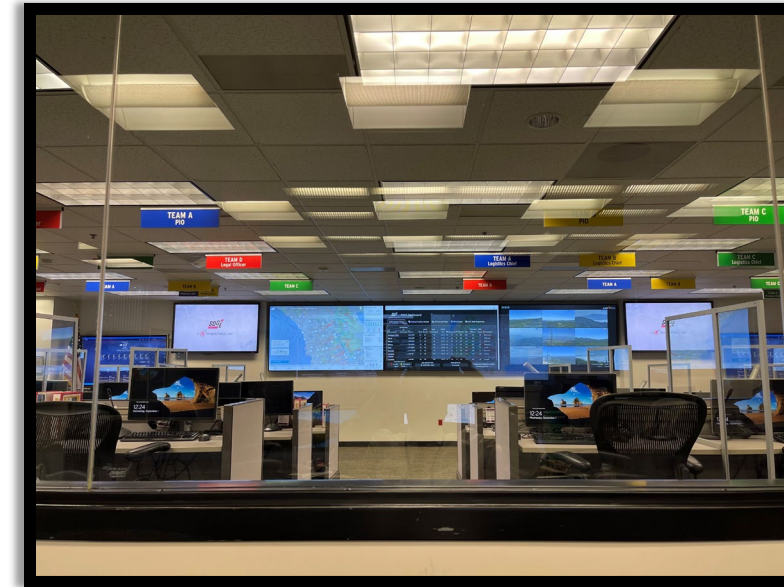
Focus: Provide data and information to assist City in its public safety efforts

- SDG&E coordinated with City to share intelligence and climate data in the form of its Vegetation Risk Index (VRI) to inform the sequencing of undergrounding projects
- SDG&E has also shared VRI data, in the form of a polygon-based exhibit, on May 17, 2022
- SDG&E and City's Fire Department continue to meet regularly to establish joint opportunities around aerial firefighting, incident communications, conducting tours, and joint flyovers
- Gas Detection Meter acquisition and training

Facilitate Development of 100% Virtual EOC and City Outreach (Section 6(c))

Focus: Enhance public safety in emergency situations

- Shared insights and lessons learned - After Action Review (AAR)
- Conducted a demo for City OES - shared Lessons Learned
- Shared all planning and implementation documents
- Met with City and community groups in 2022 and 2023 on wildfire and hardening projects



Safe Energy Collaboration (cont.)

Emergency Management Collaboration Dashboard



Safe Energy Collaboration (cont.)

Develop Resiliency Review (Section 6(d))

Focus: Collaborate with City to assist City with management of impacts of climate, bring funding from grant sources

- Jointly submitted a grant application to explore the feasibility of implementing energy resilience hubs
- Desired Outcomes:
 - Conceptualize a microgrid at a critical facility and community lifeline location as a pilot demonstration for an energy resilience hub
 - The Energy Resilience Hub will:
 - Provide post-disaster recovery services to San Diego community members during power outage and climate hazard events
 - Connect to a carbon neutral microgrid that will function as a redundant power source
 - Serve as a cooling center during extreme heat events
- Will provide technical assistance and subject matter expertise to the project team

Reliable Energy Cooperation

Finalize & Refresh Central Dashboard for Energy Management (Section 7(a))

Focus: Provide data and information to reduce energy use

- SDG&E and City collaborated on requirements for dashboard to assist City's energy use
- May / June 2023, SDG&E presented a draft dashboard to City for feedback
- July 2023, will discuss additional requirements around Net Energy Metering and Aggregated billing

CCA Cooperation (Demand Response) (Section 7(c))

Focus: Provide opportunities for the City to benefit from demand response programs

- SDG&E's Demand Response (DR) team has presented overviews of all SDG&E DR programs to City and SDCP
- SDG&E's DR team presented options to the City for participation of City facilities in DR programs like Emergency Load Reduction Program Pilot (ELRP)
- SDCP customers participate in several SDG&E DR programs, like AC Saver and ELRP
- SDCP has not yet identified any demand response or DER project opportunities



Reliable Energy Cooperation (cont.)

CCA Cooperation (Microgrid) (Section 7(b))

Focus: Facilitate funding and expertise for microgrid development to ensure reliable operation of City facilities

- In 2021: SDG&E filed an application with the CPUC to bring funds to San Diego to build microgrids under the Microgrid Incentive Program (MIP).
- April 2023: CPUC approved the MIP, which will provide funding for community, local and tribal government-driven, reliability and resilience projects:
 - Prioritize under served communities, access and functional needs residents, and electricity-dependent individuals
 - Enable communities with lower capacity to self-fund development of backup generation to maintain critical services
- Q1 2024: SDG&E can start technical consultations with stakeholders.
- SDG&E website will include MIP program handbook October 2023 and launch the MIP in mid-2024



Equitable Energy Cooperation



Equity Focused Solar Expansion (Section 8(a))

Focus: Ensure rooftop solar is available to underserved communities

- 10-year equity-focused residential solar incentive program funded by shareholders
- \$1M/year to assist income-qualified customers with installing solar on their homes, in addition to electrical panel upgrades and job training

Year 1 Program Status*

Area Median Income (AMI)	Active or Paid Applications	Submitted	Reserved	Paid	Total
<80% AMI	31	\$82,924	\$510,858	\$93,332	\$687,114
80 – 100% AMI	0	\$0	\$0	\$0	\$0
100 – 120% AMI	6	\$73,052	\$122,016	\$29,284	\$152,516

Year 2 Improvements

- Implementing 3-phase approach to prioritize homeowners in Communities of Concern to remove 80-100% AMI income tier, looking to simplify into more inclusive, fewer tiers (120% AMI and below)



*Data provided by Center for Sustainable Energy to support City CAP Measure 1.1 Decarbonize Existing Buildings SA-6 Expand residential Photovoltaic deployment incentives/ programs.

Equitable Energy Cooperation (cont.)

Affordable Housing (Section 8(b))

Focus: Provide data and coordinate with the City to ensure more rapid affordable housing development

“More than 50% of the single-family dwelling units on the project will be classified as low-income affordable housing as defined in HSC 50052.5 or PUC2852, and all units will be individually metered.”

Process Streamlining

Education & Outreach

Technology Enablement

SDG&E is building collaboration with developers to avoid surprises in the process and outcome, enhance clarity of responsibilities, and flexibility to adapt to our customers' needs.

Proactive, two-way communication will enable positive outcomes

Equitable Energy Cooperation (cont.)

Encourage Diversity in Local Clean Energy Workforce (Section 8(c))

Focus: Provide meaningful assistance to underserved communities to find careers in clean energy

Workforce Development Programs

- Competitive Edge Job Training Program
 - 2022: SDG&E partnered with the Central San Diego Black Chamber of Commerce to create a 6-week training course with a \$22/hr pay rate while in training
 - All 13 graduates in 2022 were employed in entry level union, project manager, or administrative positions.
 - 2023 cohort commenced with 22 participants on June 5; Graduation on “Contractor Day” on July 11
- Utility/Arborist Line Clearance Training Program
 - Awarded San Diego College of Continuing Education a **\$1.2M, 3-year grant** toward a 5-week, 200-hour course
 - Skills: safe tree work practices, tree identification and biology, pruning, trimming, removal techniques
- In 2023, SDG&E, in partnership with IBEW Local 465, launched the Lineworker Assistant Scholarship Program
 - \$30,000 scholarship for men and women to attend a 15-week Electrical Lineworker training program

STEM Capacity Building

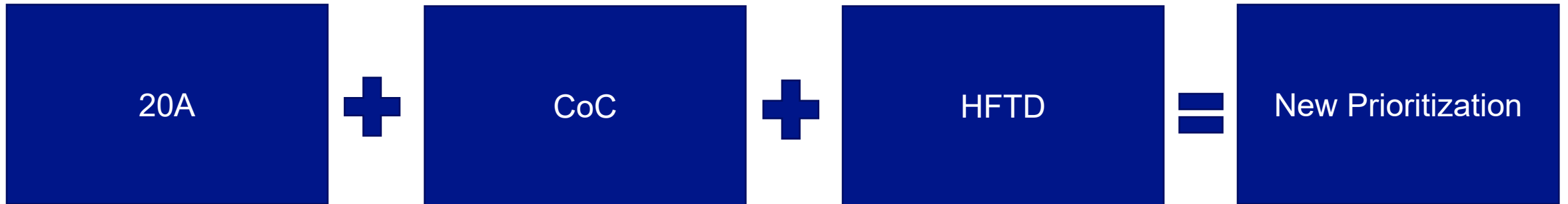
- DonorsChoose
 - Provided **\$250,000 in shareholder funds as matching fund to support STEM learning activities** through the nonprofit DonorsChoose crowdfunding platform, which empowers public school educators to raise funds for various classroom needs
- California State University – San Marcos | Southwestern College
 - Funded and supported the creation of the Society of Women Engineers and National Society of Black Engineers.

Equitable Energy Cooperation Opportunities (cont.)

Undergrounding Prioritization (Section 8(d))

Focus: Collaborate with City assist with the City's prioritization for undergrounding

- City owns and is responsible for project identification and prioritization for the Surcharge Program.
- The City prioritizes projects in accordance with City policies and accounts for communities of concern and communities with higher fire risk, as identified in the High Fire Threat District tool, the City's Climate Resilient SD Plan, and intelligence and data from SDG&E meteorology teams and academic research partners



SDG&E Support & Collaboration

16 of 19 FY 2023 & 2024 Projects Align With New Prioritization Criteria

Equitable Energy Cooperation (cont.)

Energy Efficiency Campaign within Communities of Concern (Section 8(e))

Focus: Expand outreach to hard-to-reach communities to connect them with customer assistance programs

- One-stop webpage on local/state/federal/SDG&E programs that help low-income and hard-to-reach customers with utility bills: sdge.com/assistance
- Bill inserts, email and targeted marketing (in multiple languages) used to promote assistance programs
- Offered to meet with every council office and provided regular program updates to share with constituents

San Diegans who have participated in SDG&E assistance programs from January 2022 thru April 2023

California Alternate Rates for Energy (CARE)	Family Electric Rate Assistance (FERA)	Medical Baseline Program (MBL)	Energy Savings Assistance (ESA)	Energy Efficiency (EE)	Neighbor-to-Neighbor (NTN)	Low-Income Home Energy Assistance Program (LIHEAP)
158,960	5,887	24,761	4,588	2,350	474	4,388

- Shareholder-funded Neighbor-to-Neighbor aid increased from \$300 to \$600
 - Easy to use online and call center processes developed for customers to participate in Neighbor-to-Neighbor
- [Neighbor-to-Neighbor Program Application Form | San Diego Gas & Electric \(sdge.com\)](#)
- Customers can now receive help on bills when 60 days past due (instead of 90 days)

Equitable Energy Cooperation (cont.)

State & Federal Grants (Section 8(f))

Focus: Collaborate with City to bring federal dollars to San Diego

- SDG&E participates in City of San Diego's Regional Infrastructure Coordination monthly meeting and has supported many of the City's grant opportunities for clean transportation, wildfire, habitat restoration and resiliency:
 - North County Transit District application for MEGA and INFRA grants;
 - MTS low- or no- emissions federal grant program;
 - MTS bus and bus facilities federal grant program;
 - Federal Community Wildfire Defense grant;
 - Federal Coastal Habitat Restoration and Resilience grant;
 - DoE electric vehicles grant;
 - North County Transit District DoT RAISE grant;
 - SANDAG DoT RAISE grant for a mobility hub;
 - SANDAG DoT RAISE grant Palomar Street Light Rail Grade Separation;
 - Resiliency hub in the City of San Diego through Cal OES and FEMA; and
 - Charging and Fueling Infrastructure Discretionary Grant Program (CFI Program) under the DOT
- April 2023: SDG&E applied for a grant from the US Department of Energy seeking up to \$100 million through the Infrastructure Investment and Jobs Act. The grant would help offset the costs of wildfire hardening efforts on and around Tribal land.

Ensuring Transparency



Rate Transparency (Full Council)

- December 7, 2021
- October 18, 2022

Major Projects & Undergrounding (Environmental Committee)

- February 15, 2022 (UG MOU Full Council)
- October 13, 2022
- June 22, 2023

Supporting Customer Equity (Environmental Committee)

- January 19, 2023 (rescheduled from November 21, 2022 by City)
- June 22, 2023

Supporting Climate Equity (Environmental Committee)

- May 26, 2022
- January 19, 2023 (rescheduled from November 21, 2022 by City)
- June 22, 2023

Supporting Municipal Staff & Operations (COO)

- September 21, 2021
- December 10, 2021
- March 10, 2022
- June 7, 2022
- September 20, 2022
- December 9, 2022
- February 3, 2023
- April 18, 2023

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Questions