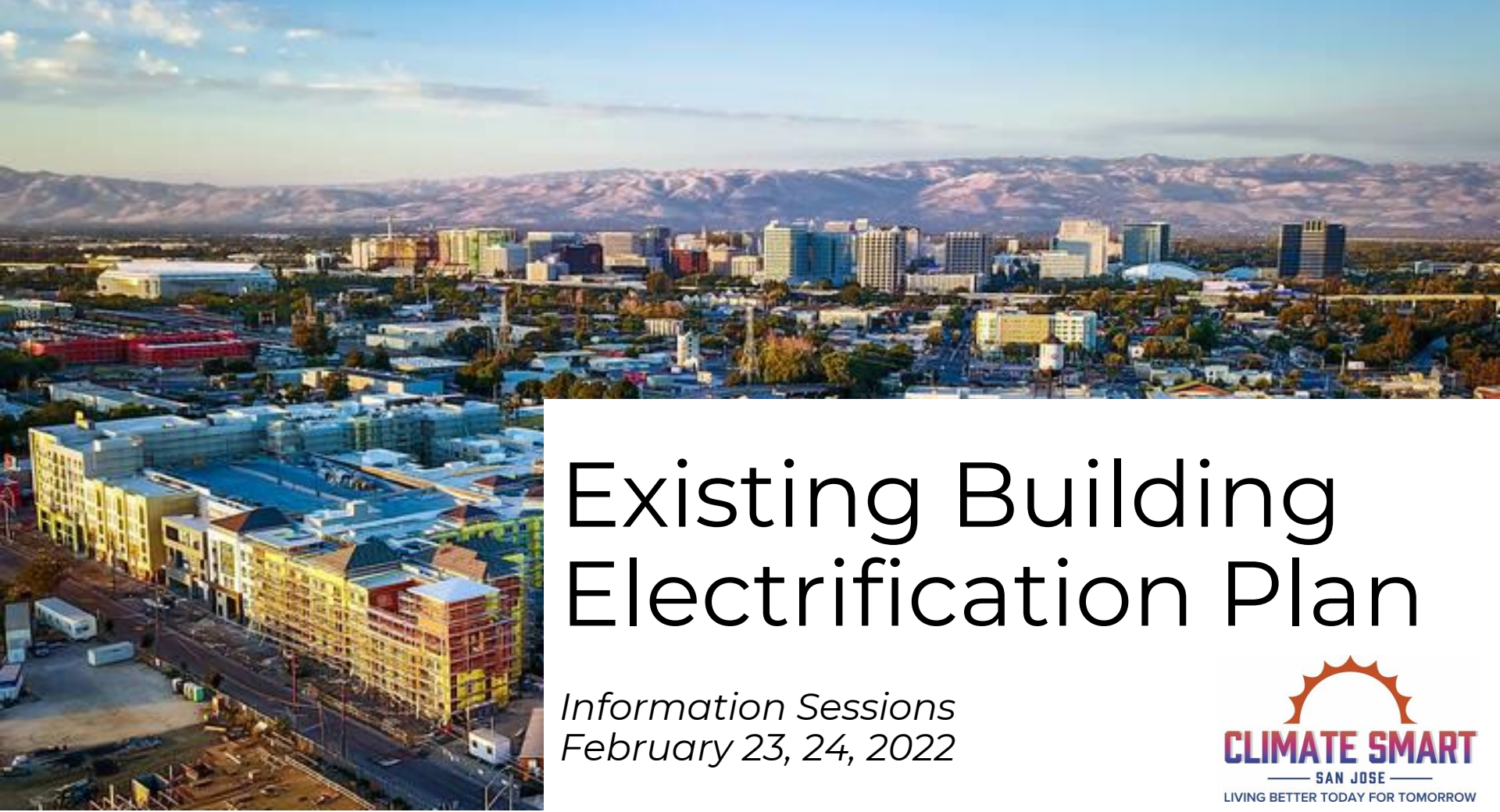


Existing Building Electrification Plan

Information Sessions
February 23, 24, 2022

CLIMATE SMART
SAN JOSE
LIVING BETTER TODAY FOR TOMORROW

Introductions

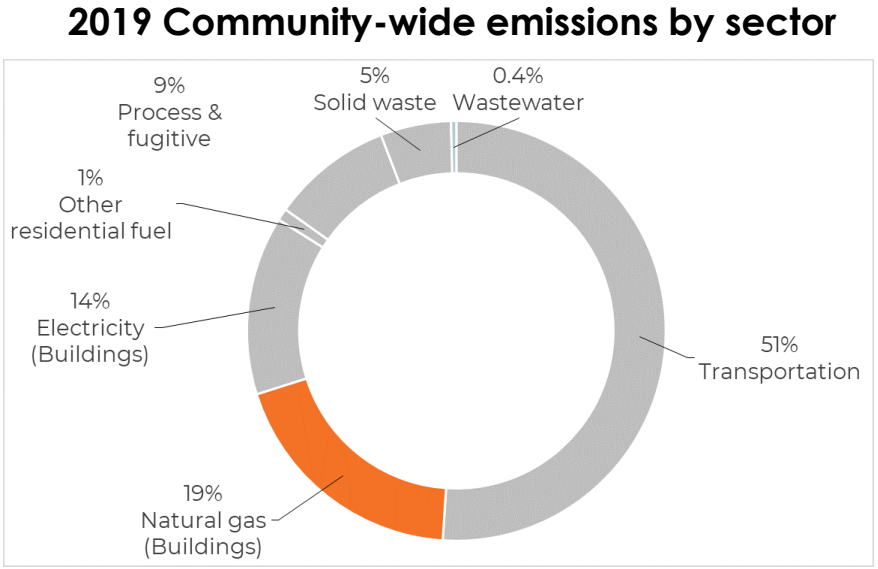
Instructions: Put your name in the chat

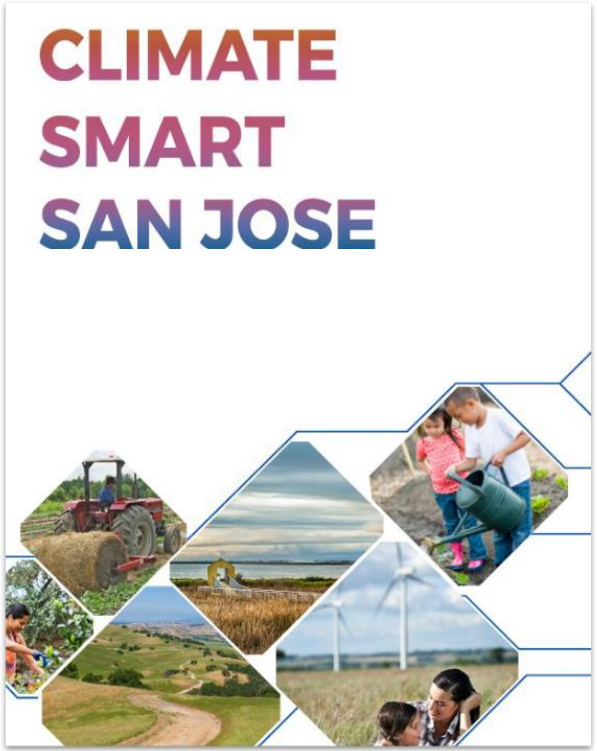
- Name
- Organization (if applicable)
- Resident
- # from 1-100 (for raffle)

Agenda

- Climate Smart
- Background on the Building Electrification Plan & Benefits
- Structure of the Building Electrification Plan
- Co-Creation Process
- Programs and Policies
- Timeline
- Public comment period and form
- Questions

Climate Smart and Emissions in San José





Purpose of the Plan

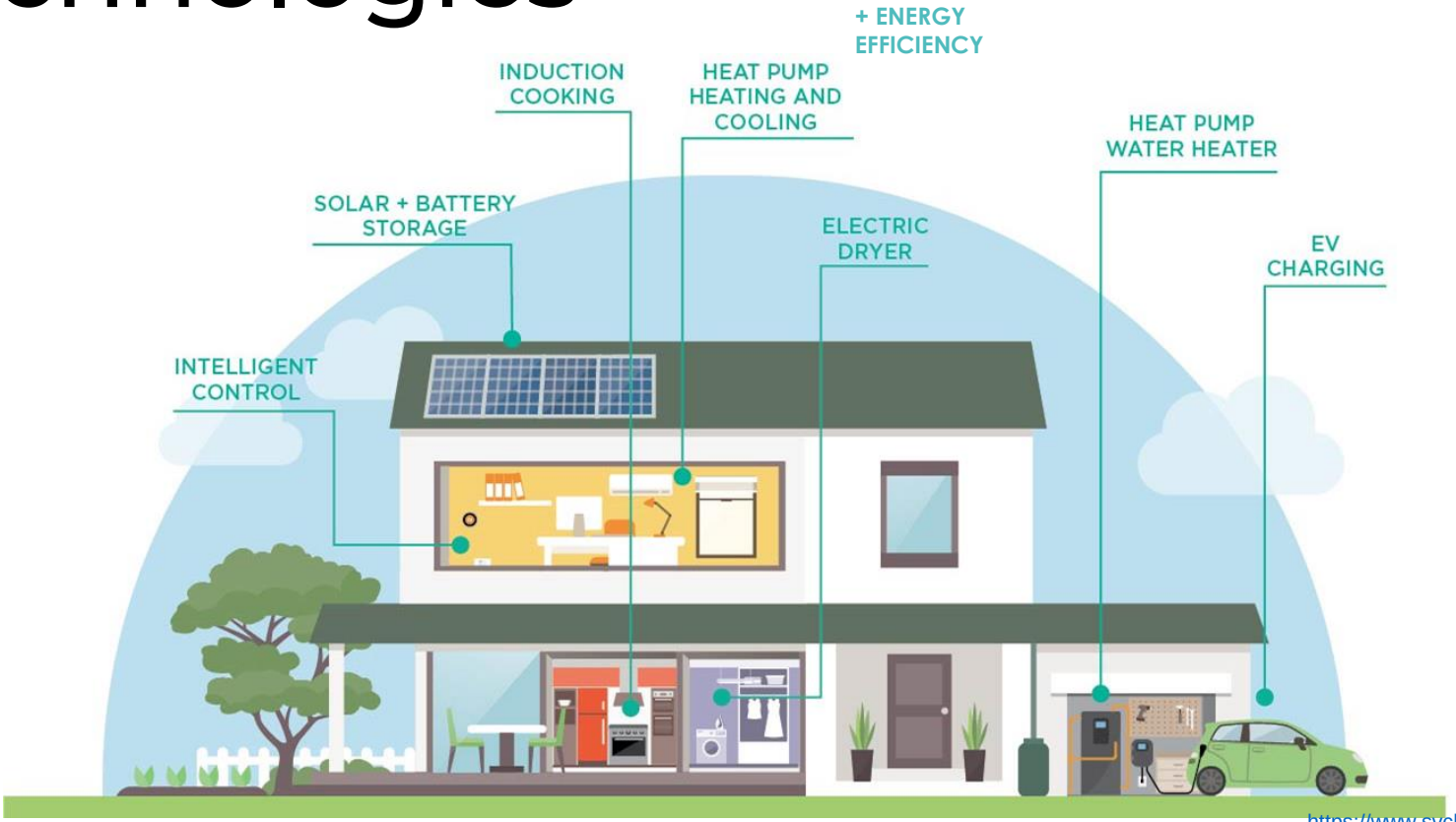
The Issue

Burning gas in buildings is a major contributor to climate change, and has negative health & safety impacts. As our electricity rapidly gets cleaner, we need to electrify our buildings and get rid of natural gas.

Purpose of Plan:

- **What:** Policy & program options for building electrification designed to benefit impacted communities
- **Why:** To ensure electrification is equitable & beneficial
- **How:** Co-create solutions with CBOs & community

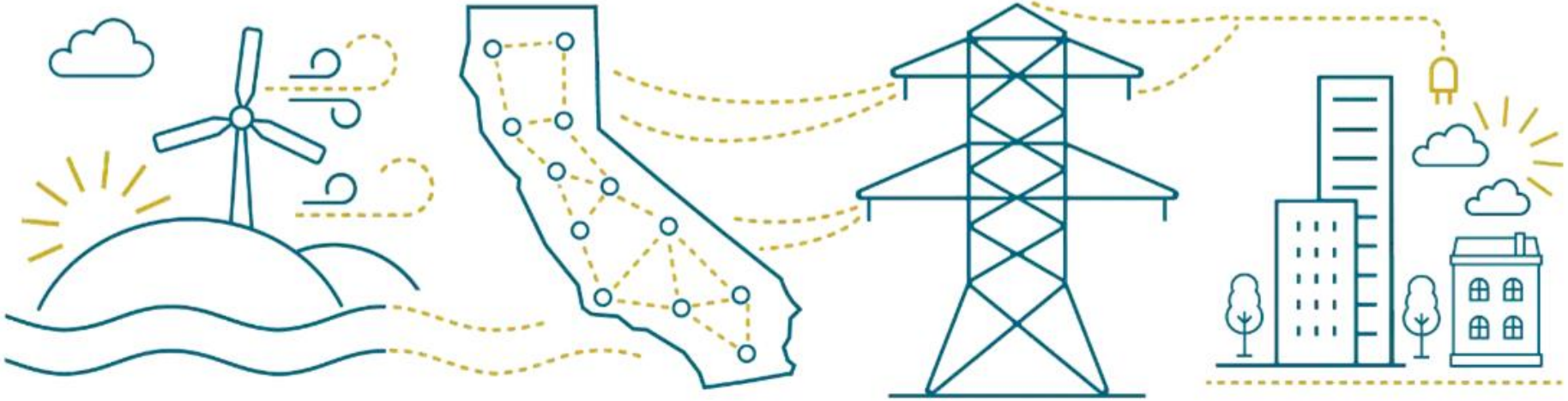
What is Building Electrification? | Technologies



https://www.cycleanenergy.org/electrify/

San Jose Clean Energy

SJCE: Our Local Clean Electricity Supplier



https://sanjosecleanenergy.org/

Co-Creation Process

Co-Creation Process

Community-based partners

City Team

Technical Partner

Broader Community Engagement

Broader community voices

Other City Departments

Summary of Engagement

- Co-creation Process
- 4 Public Information sessions (general public)
- Individual or group meetings with over 40 stakeholder groups
- 3 community forums with housing groups, CBOs, labor groups

Structure of the Plan

1. Introduction
2. Community Co-Creation Process
3. Social and Racial Equity in San José
4. Equitable Building Electrification Framework
5. The Cost of Residential Building Electrification
6. Commitment to Ongoing Community Engagement

Appendices:

a. Definitions
b. Summary of Equitable Building Electrification Actions
c. Co-Creation Process
d. Summary of Community and Stakeholder Input
e. Cost Analysis
f. Building and Housing Stock Analysis

Equitable Building Electrification

Community Priorities → **Connection to Building Electrification**

Housing and Energy Costs

Health & Air Quality

High Quality Job Opportunities

Clean & Reliable Energy

Recommended Policies and Programs

Housing and Energy Costs

HEC Priority Outcome #1: Building electrification reduces energy and housing costs and tenants are not adversely affected. Programs provide funding for any increased costs to those who cannot afford the transition.

HEC-1.1 Provide more information on the costs of building electrification.
Create an online Zero Carbon Hub that serves as the City's central information location for Climate Smart and building electrification resources.
Share and interpret case studies and customer economic analyses.
Assess and share existing cost planning tools to help guide decision-makers in economic decisions.
Ensure all new programs or pilots track data on the cost impacts by types of tenants, owners, and decision-makers.
HEC-1.2 Launch a "Retrofit Accelerator" program, designed to streamline building retrofits to ensure building owners can comply with new policy requirements and access funding.
HEC-1.3 Expand awareness of and access to existing rebate programs.
Conduct targeted outreach to low-income renters and homeowners about income-qualified programs.
Work with local CBOs to promote BayREN, SJCE, and PG&E rebate programs.
Streamline permits for electrification measures where possible.
Provide assistance in applying to regional programs for historically marginalized communities.
HEC-1.4 Identify sustainable funding sources and accessible financing options.
Identify existing, sustainable funding sources for both low-income homeowners and renters.
Design and implement new sources of local funding that address critical gaps in existing funding sources.
Promote existing financing options, and explore scalable offerings like Tariffed On-Bill Financing.
Advocate for a state-level building decarbonization and managed gas transition plan to reduce public subsidies to fossil fuel infrastructure and ensure state and utility investments in electrification.

Housing and Energy Costs

HEC Priority Outcome #2: Electrification policies and programs support affordable and stable neighborhoods for San José communities

HEC-2.1 Pair electrification and energy efficiency funding with affordable housing preservation programs.
HEC-2.2 Identify solutions to avoid pass-through costs of upgrades to low-income renters.
HEC-2.3 Create affordability and tenant protections within a "Retrofit Accelerator" program.
Explore how to include tenant protections and affordability requirements tied to funding sources offered through a "Retrofit Accelerator" program.
Coordinate potential opportunities for outreach or hotlines for tenants to issue complaints if building owners harass or raise costs for tenants.
Identify solutions to avoid pass-through costs of upgrades to renters, with specific solutions for unregulated affordable housing and rent-stabilized properties.

HEC Priority Outcome #3: Electrification costs come down over time

HEC-3.1 Invest in existing training programs to provide comprehensive contractor training to ensure quality installations.
HEC-3.2 Identify and further explore solutions to scale electrification that may reduce installation costs for electric technologies and upgrades.
Pilot bulk purchasing programs for electrification appliances to bring down equipment costs.
Pilot a "targeted electrification" or "strategic decommissioning" project with PG&E to avoid planned gas infrastructure upgrades and unlock investments for electrification upgrades.
HEC-3.3 Consider changes to electricity rate design that benefit residential and commercial customers who electrify.
HEC 3.4 Evaluate the need to update San José's Building Performance Ordinance, which currently tracks energy and water usage in large buildings and requires energy efficiency actions, to understand the efficacy of requiring fuel switching or emission reductions that work towards carbon neutrality goal. Integrate building electrification as a key pathway.

Air Quality and Health

AQH Priority Outcome #1: Priority Outcome: Community members understand indoor air pollution sources, health risks, and strategies for improving health and safety.

AQH-1.1 Invest in community-led outreach efforts to impacted communities and integrate information on electrification.
Fund CBOs to design culturally appropriate outreach campaigns about building electrification in the historically marginalized communities they work closely with.
AQH-1.2 Advocate for health messaging in outreach for existing building electrification programs, and ensure health benefits and resources reach historically marginalized communities.
Integrate health messaging into existing City-run or City-driven campaigns to ensure information leads with the community's priorities and concerns, including collateral created and distributed by SJCE.
Improve the City's Induction Cooktop Checkout Program.
AQH-1.3 Provide opportunities to better understand air quality in the home.
Pilot a program providing air quality monitoring devices to households.
Include education about air quality in contractor training and information sharing by City departments (such as the Permit Center), including messaging contractors can share with their customers.

Air Quality and Health

AQH Priority Outcome #2: Priority Outcome: Harmful sources of indoor air pollutants are significantly reduced.

AQH-2.1 Improve existing rebate programs to address air quality outcomes and incorporate health messaging.
Coordinate with BayREN, SJCE, and PG&E program implementers to integrate air quality measures such as air quality testing, air filtration, and ventilation systems.
AQH-2.2 Design a "Retrofit Accelerator" program that can also support health and safety upgrades in buildings alongside electrification, prioritizing funding and assistance for middle- and lower-income households.
Develop a program model that will help building owners stack several funding sources so health and safety upgrades can be integrated into a building electrification retrofit, particularly for low-income homeowners and multifamily buildings with low-income tenants.
Coordinate with existing rebate program implementers to ensure they dedicate resources to reaching low-income communities.
Integrate air filtration and ventilation upgrades into the services offered by the Retrofit Accelerator program.
Provide assistance to small and medium sized businesses to access existing rebate programs.
Dedicate technical support for small and medium food service businesses to convert their commercial kitchens to all-electric technologies.
AQH-2.3 Support regional and State policy efforts to enact appliance emissions standards that will eventually phase out gas appliances and to require a statewide all-electric new construction code.
AQH-2.4 Research additional requirements and measures to mitigate industrial GHG emissions, particularly in historically marginalized communities.

High Quality Job Opportunities

HQJ Priority Outcome #1:: Electrification programs include workers and contractors that reflect and are from San José communities

HQJ-1.1 Assist contractors from San José historically marginalized communities to become qualified contractors for existing electrification incentive programs.
Advocate for program implementers to conduct stakeholder research on barriers to entry (like language barriers to training, licensing, and exams), and work with implementers of existing programs to remove barriers.
Ensure City-led, funded, or promoted trainings are accessible by ensuring that they are offered in a range of languages, times, and locations.
Work with partners to integrate building electrification into curricula at local vocational schools or high school career technical education (CTE) courses.
Work with work2future and other workforce groups to connect graduates of local workforce development programs serving communities of color to existing employers in electrification.

High Quality Job Opportunities

HQJ Priority Outcome #2: New programs and policies generate local, high-road jobs

HQJ-2.1 Build relationships with labor unions and advocates, workers, and employers.
Establish a workforce development working group to support the growth of high road building electrification jobs in San José. To work toward these goals, the workgroup may evaluate or consider: The feasibility and implications of a workforce labor standard for building electrification work The need for a jobs analysis to understand how building electrification work will impact the local job market in San José, utilizing labor market information Coordination amongst other City departments to inform the need for building electrification jobs or trainings The need for a workforce transition strategy to support groups that may be negatively impacted by the growth of building electrification work Opportunities and training resources to support contractors and individuals from historically marginalized communities that are interested in working in building electrification How to seek out and ensure new funding goes toward high-road jobs
HQJ-2.2 Participate in regional efforts to promote the creation of high-road jobs.
HQJ-2.3 Invest in existing training partners to provide comprehensive contractor training to ensure quality installations.
HQJ-2.4 Improve permit compliance to ensure safe and efficient installations of all-electric technologies.

High Quality Job Opportunities

HQJ Priority Outcome #3: Fossil fuel job losses are minimized, and pipefitters and workers in the gas industry are able to participate in the electrification workforce.

HQJ-3.1 Advocate to the state and PG&E for thoughtful planning and engagement to ensure that pipefitters and workers in the gas industry are protected and can participate in the transition to all-electric buildings.
Advocate for funding and strategic planning to assist in retraining and protection efforts for pipefitters and workers in the gas industry.
HQJ-3.2 Identify further policies and programs with labor and workforce stakeholders to mitigate negative impacts to pipefitters and workers in the gas industry.

Clean and Reliable Energy

CRE Priority Outcome #1: Residents and businesses have access to safe spaces during extreme weather events and power outages.

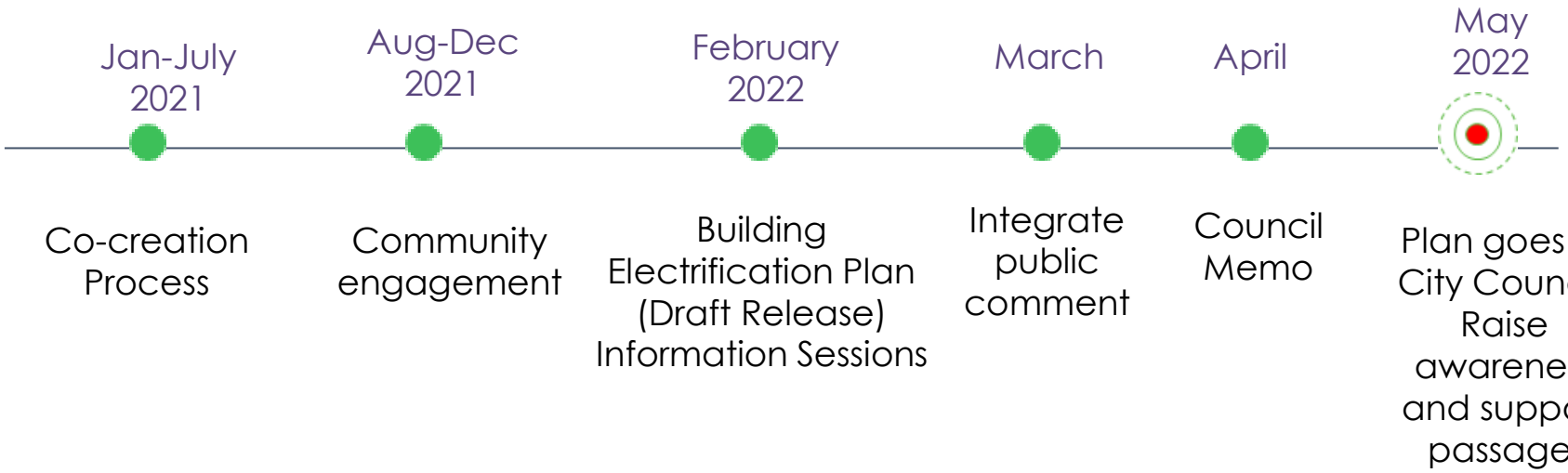
CRE-1.1 Create Community Resilience Hubs to provide safe and comfortable spaces for residents to access during emergencies.
~~Conduct a study to assess backup power options at potential Community Resilience Centers that combine heat pump retrofits for heating and cooling.~~
Conduct additional community engagement about what services would be most needed by nearby communities during extreme events and integrate into programming offered at Resilience Centers.
Identify funding for needed electrification upgrades to Resilience Centers, as well as funding to train and support community leaders and groups that help run the building as a critical facility during extreme events.
CRE-1.2 Contribute to the creation of a resilient electric grid.
Identify programs and policies with utility partners that promote grid resilience which could include demand response, high efficiency appliances, energy efficiency, grid-
Incorporate resiliency and energy reliability opportunities in future policy requirements, to ensure backup power options are powered by clean energy.

Clean and Reliable Energy

CRE Priority Outcome #2: Increase access to renewable energy, cooling, and clean energy storage options for homes and businesses.

CRE-2.1 Improve and expand existing programs to help building owners install renewable energy, cooling, and clean energy storage options.
Coordinate with program implementers to expand awareness of existing resiliency and backup power programs and ensure dedicated resources for reaching historically marginalized communities.
CRE-2.2 Help building owners access resources and assistance for upgrades by developing a "Retrofit Accelerator" program.
Incorporate renewable energy and clean energy storage options into a "Retrofit Accelerator" program to increase resilience to extreme events and provide backup power.
Conduct outreach around the reliability of electricity, and promote familiarity with what to do during a power outage if in an all-electric home.
Explore funding opportunities for clean energy storage to make clean backup options affordable, particularly for affordable housing, assisted living facilities, or individual residents dependent on electric medical equipment.
CRE-2.3 Develop a holistic approach to addressing the impacts of extreme heat.
Conduct robust stakeholder engagement to identify priority needs and concerns in partnership with multiple City departments.
Develop a plan to comprehensively address extreme heat through a set of cross-sectoral efforts such as increasing urban tree canopy, investing in green infrastructure, and prioritizing building electrification funding and assistance to those who need cooling.

Updated Timeline



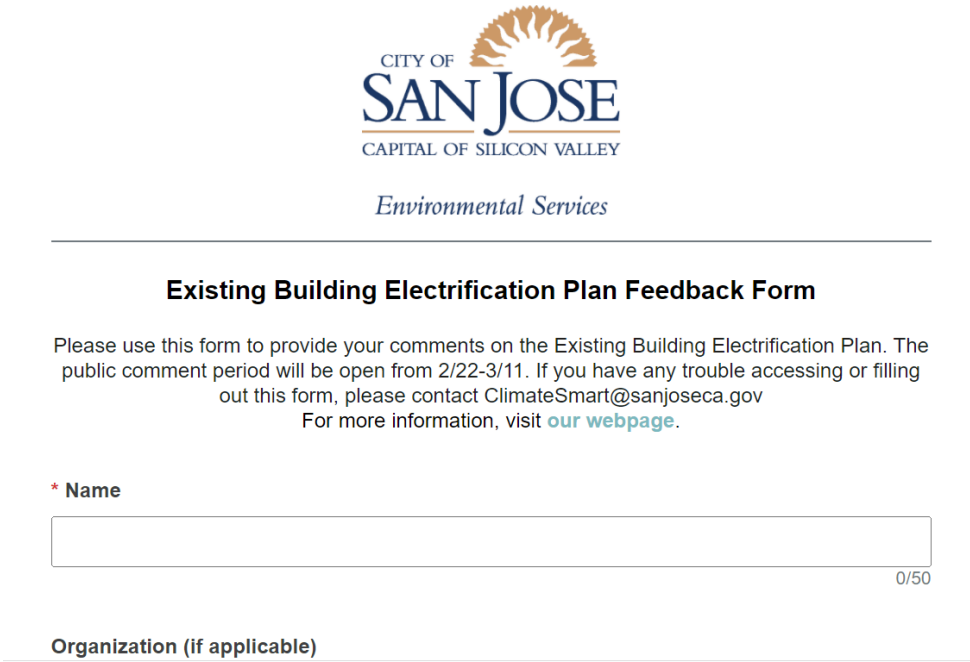
How to provide feedback

Visit: [Building Electrification Webpage]

Public Comment Period:
2/22-3/11

For questions, please contact:

Elena Olmedo
elena.olmedo@sanjoseca.gov



CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services

Existing Building Electrification Plan Feedback Form

Please use this form to provide your comments on the Existing Building Electrification Plan. The public comment period will be open from 2/22-3/11. If you have any trouble accessing or filling out this form, please contact ClimateSmart@sanjoseca.gov
For more information, visit our webpage.

* **Name**

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Organization (if applicable)

Questions?