



**LA100 Equity Strategies
Steering Committee Kickoff Meeting
November 5, 2021**

Megan Day, NREL Project Manager
Paty Romero-Lankao, NREL Technical Lead
Joan Isaacson, Kearns & West, Principal –
Public Involvement and Facilitation



Welcome and Opening Remarks



Mitch O'Farrell

Los Angeles City Council
13th District



Cynthia McClain-Hill

LA Board of Water and Power
Commissioners President



Susana Reyes

LA Board of Water and Power
Commissioners Vice President



Martin Adams

LA Board of Water and Power
General Manager and Chief
Engineer



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Steering Committee Meeting #1

Time	Item
10 minutes	Welcome
10 minutes	Agenda Overview/Introduction to Leads
35 minutes	Steering Committee Roundtable Introductions
30 minutes	LA100 Study Overview/LA100 Equity Strategies Orientation
30 minutes	Steering Committee Roles and Protocols
10 minutes	Break
40 minutes	Visioning: What do just energy outcomes look like?
10 minutes	First Round of Community Meetings
5 minutes	Wrap Up and Next Steps



Our Guide for Productive Meetings



Raise your hand to join the conversation (less chat entries, more talking)



Help to make sure that everyone has *equal time* to contribute



Keep input *concise* and *focused* so that others have time to participate



Actively listen to others to understand their perspectives



Offer ideas to address others' questions and concerns



LADWP Project Managers



Reiko A. Kerr

Senior Assistant General Manager
Power System Engineering,
Planning, and Technical Services



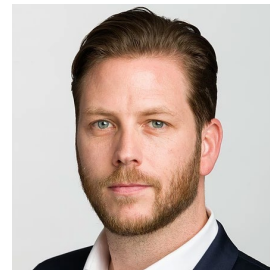
Monique F. Earl

Senior Assistant General Manager &
Chief Diversity, Equity, and Inclusion
Officer



Joseph M. Ramallo

Assistant General Manager
Communications & Public
Affairs



Jason L. Rondou

Director
Resource Planning,
Development
& Programs



Simon Zewdu

Director
Transmission Planning,
Regulatory & Innovation



Steve Baule

Utility Administrator
LA100 ES Oversight & UCLA
Contract Administrator



Vanessa C. Gonzalez

Civil Engineering Associate
LA100 ES Project Manager &
Contract Administrator



NREL Project Leads



Dr. Patricia "Paty" Romero-Lankao
Equity Strategies Technical Lead
NREL Senior Research Scientist



Megan Day
Equity Strategies Project Manager
NREL Senior Energy Planner



Dr. Jaquelin Cochran
Equity Strategies Senior Advisor
NREL Grid Planning &
Analysis Center Director



Kearns & West



Joan Isaacson,
Principal/Sr Facilitator



Christian Mendez,
Sr Associate/Equitable Engagement



Jasmine King,
Project Coordinator/Equitable
Engagement



UCLA *LA100 Equity Strategies Partners*



Dr. Cassie Rauser

Executive Director, UCLA Sustainable LA Grand Challenge
Email: crauser@conet.ucla.edu



Dr. Greg Pierce

Co-Director, UCLA Luskin Center for Innovation (LCI)
Email: gspierce@ucla.edu



Dr. Stephanie Pincetl

Professor, Institute of the Environment and Sustainability
Founder and Director, UCLA California Center for Sustainable Communities (CCSC)
Email: spincetl@ioes.ucla.edu



Energy justice

Refers to the goal of achieving equity in both the **social and economic** participation in the energy system, while also **remediating** social, economic, and health **burdens** on those historically harmed by the energy system (“frontline communities”)

(Initiative for Energy Justice)

Roundtable Introductions



Steering Committee Roster

Organization	Representative
Alliance of River Communities (ARC)	Vincent Montalvo
City of LA Climate Emergency Mobilization Office (CEMO)	Marta Segura
Climate Resolve	Jonathan Parfrey
Community Build, Inc.	Earnest Williams
DWP-NC MOU Oversight Committee	Tony Wilkinson
Enterprise Community Partners	Jimar Wilson
Esperanza Community Housing	Nancy Halpern Ibrahim
Los Angeles Alliance for a New Economy (LAANE)/ RePower LA Coalition	Agustin Cabrera
Move LA	Denny Zane
Pacific Asian Consortium in Employment (PACE)	Celia Andrade
Pacoima Beautiful	Veronica Padilla Campos
The South Los Angeles Transit Empowerment Zone (SLATE-Z)	Zahirah Mann
South LA Alliance of Neighborhood Councils	Thryeris Mason
Strategic Concepts in Organizing and Policy Education (SCOPE)	Tiffany Wong



Steering Committee Roundtable Intros

Each member please introduce:

- Yourself
- The organization/sector you represent
- The focus of your organization
- Answer: “Why did my organization say yes to joining the Steering Committee?”



LA100

Overview



LA100

The Los Angeles 100% Renewable Energy Study



LA City Council motions directed LADWP to evaluate:



What are the **pathways and costs to achieve a 100% renewable electricity supply** while electrifying key end uses and maintaining the current high degree of reliability?



What are the potential benefits to **the environment and health**?



How might **local jobs and the economy** change?



How can communities shape these changes to prioritize **environmental justice**?



LA100 Advisory Group

Provided
Input and
Review
Throughout
the Study

Representatives:

- Environmental groups
- Neighborhood councils
- Academia
- Key customers
- City government
- Business and workforce groups
- Utilities



Components of LA100

The 
Customer



CHAPTER 3
**Electricity Demand
Projections**



CHAPTER 4
**Customer-Adopted
Rooftop Solar
& Storage**

The 
**Power
System**



CHAPTER 5
**Utility Options for
Local Solar &
Storage**



CHAPTER 6
**Renewable Energy
Investments &
Operations**



CHAPTER 7
**Distribution System
Analysis**

The 
Community



CHAPTER 8
**Greenhouse Gas
Emissions**



CHAPTER 9
**Air Quality &
Health**



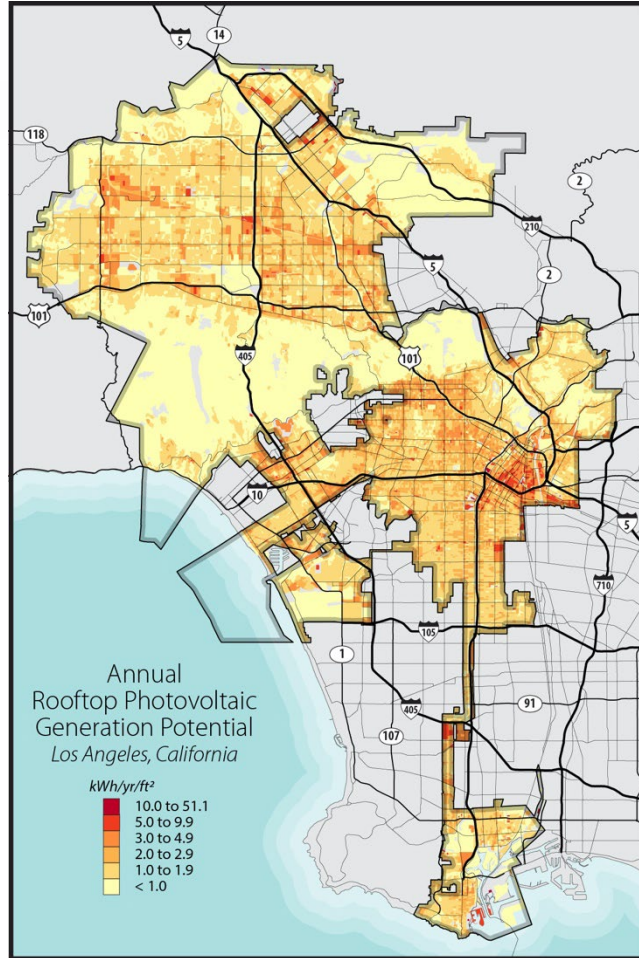
CHAPTER 10
**Environmental
Justice**



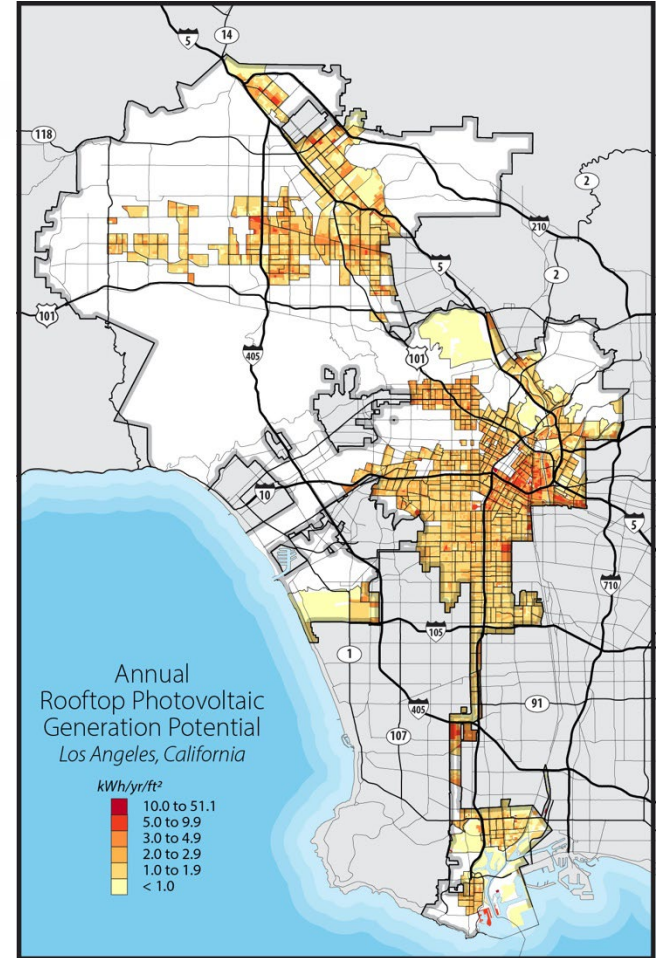
CHAPTER 11
**Economic Impacts
& Jobs**

Local Solar Customer Rooftop Generation Potential in Disadvantaged Communities

Customer Rooftop Solar Generation Potential

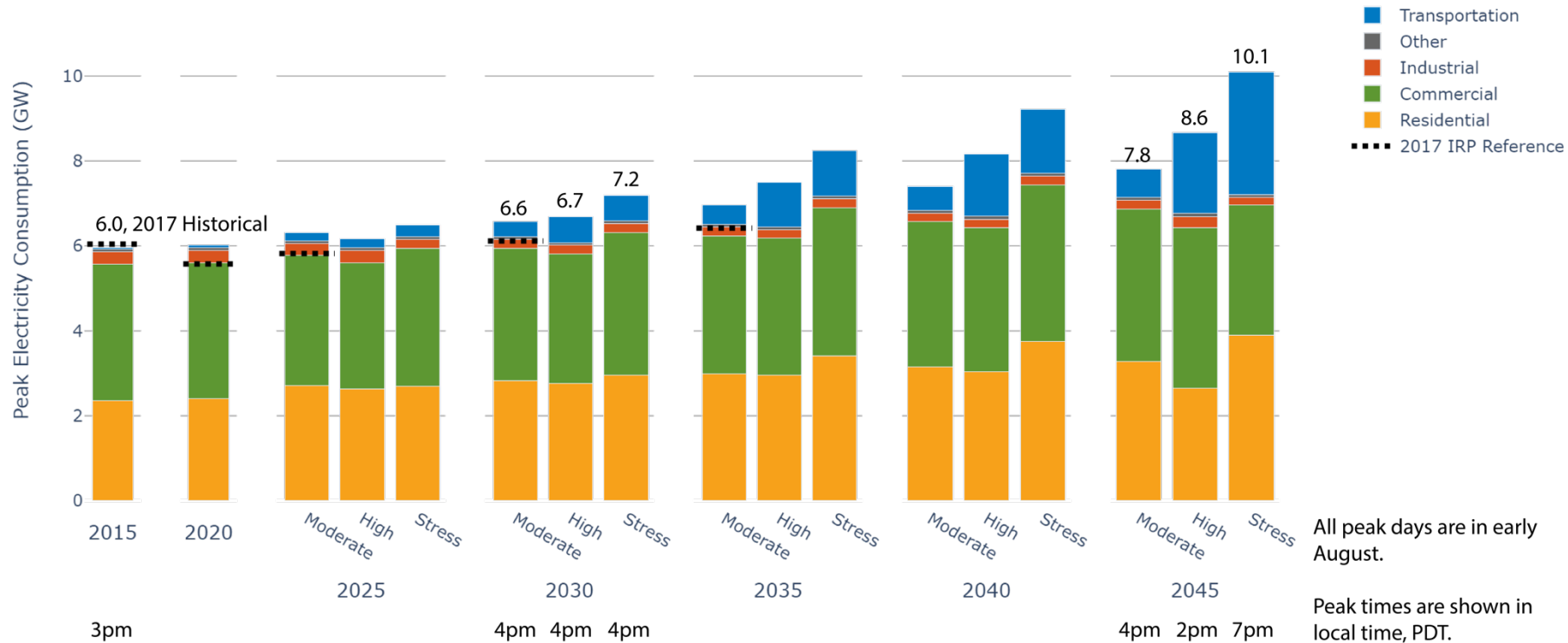


Disadvantaged Communities Only



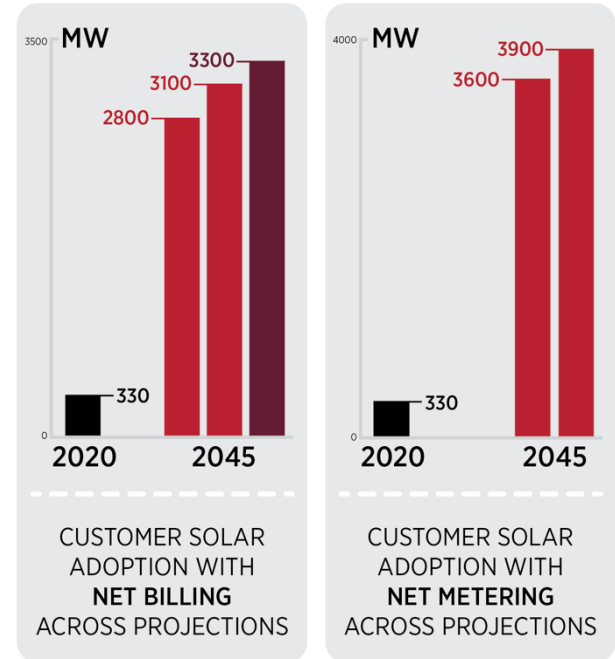
Select Results

Growth in customer demand for electricity




By 2045 rooftop solar would be an economic choice for nearly all households and businesses

Adoption would occur on 22%–38% of all existing single-family homes, up from 6% in 2020



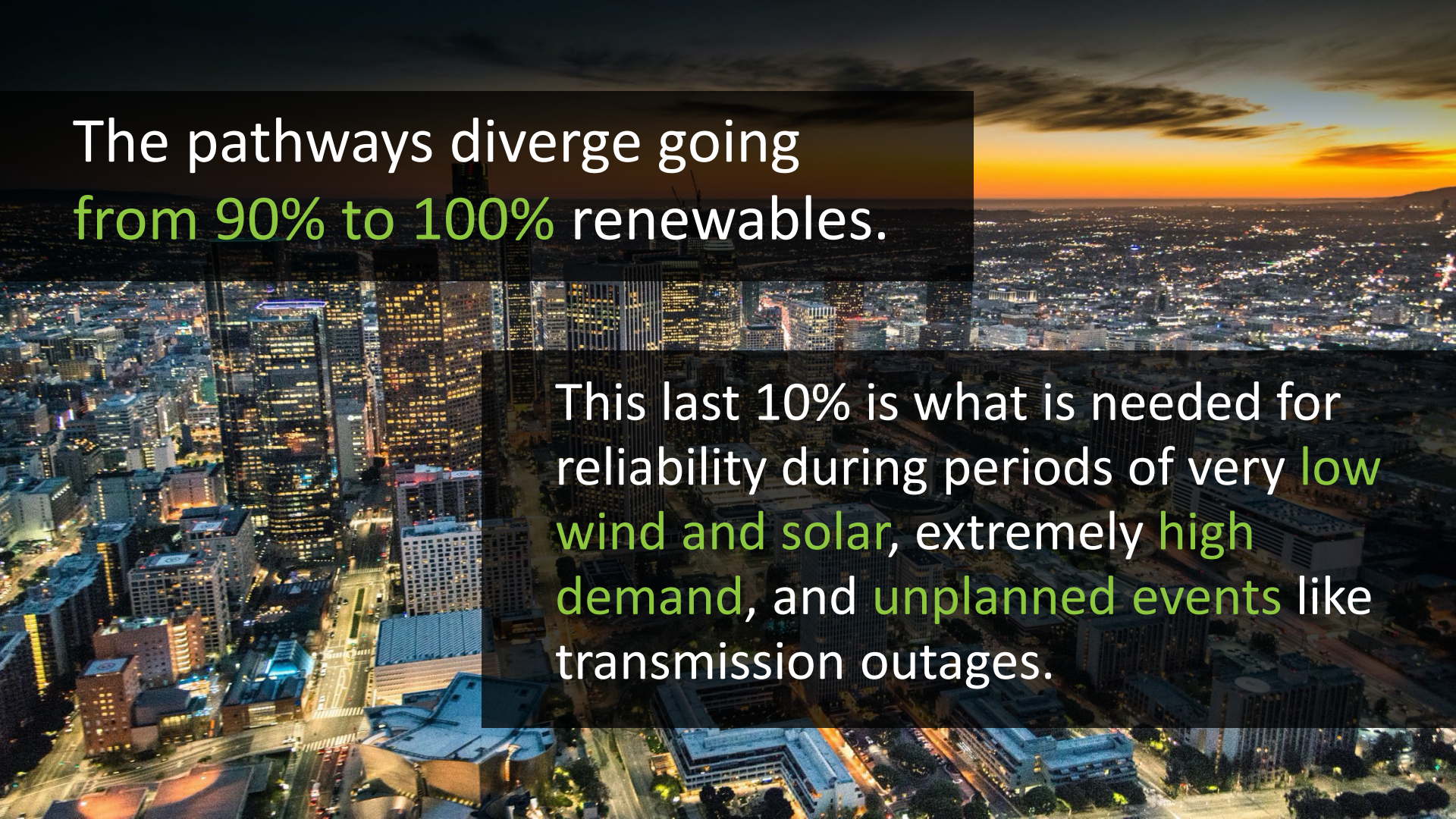
■ 2020 COMPARISON ■ MODERATE ■ HIGH ■ STRESS



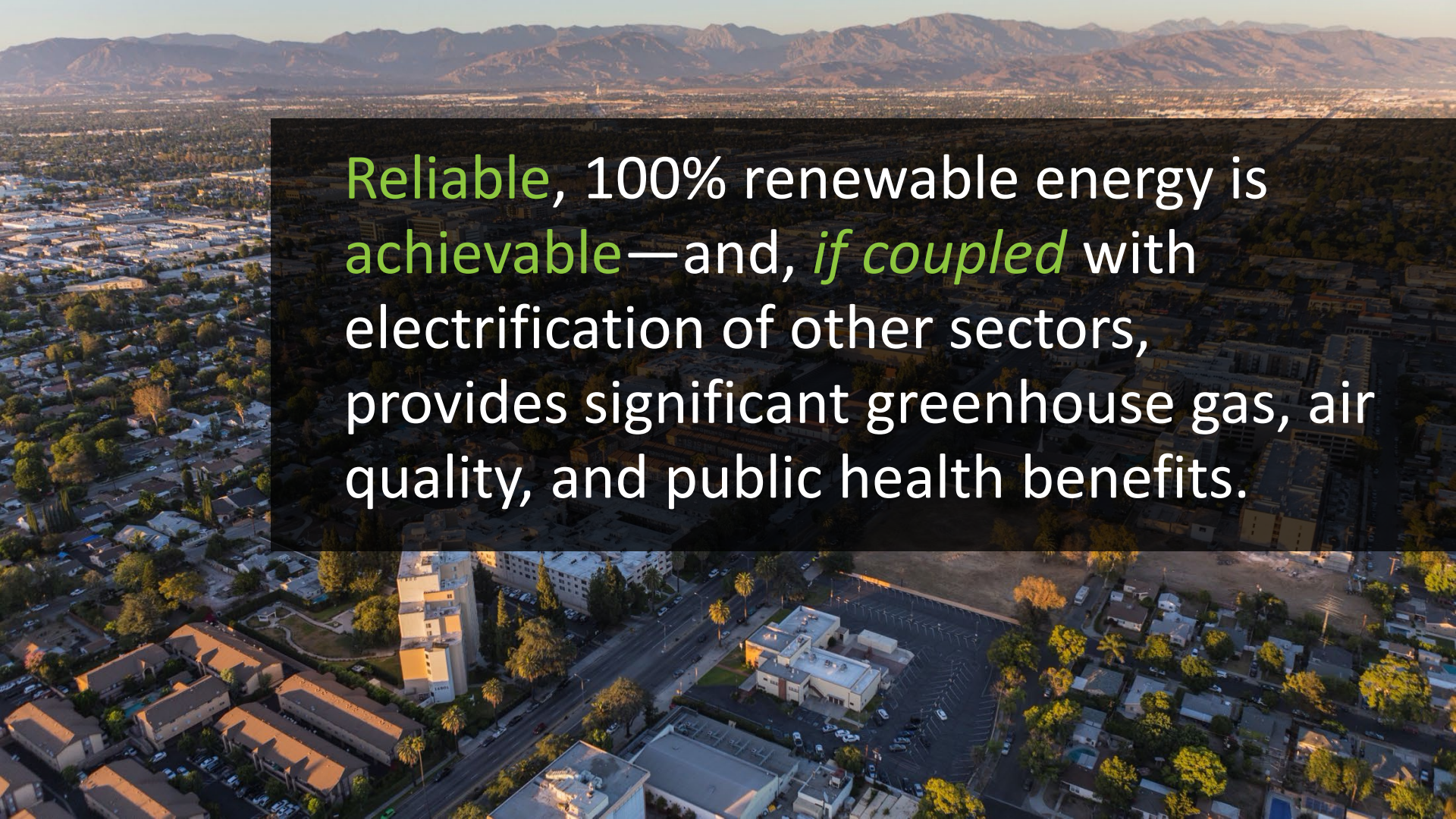
In all scenarios, wind and solar provide **69%–87%** of future electricity demand.

An aerial photograph of a city at sunset. The sky is a mix of orange, yellow, and dark grey clouds. The city lights are visible, and a dark semi-transparent box is overlaid on the left side of the image, containing text.

The pathways diverge going
from 90% to 100% renewables.

An aerial photograph of a city at night. The city lights are visible, and a dark semi-transparent box is overlaid on the right side of the image, containing text.

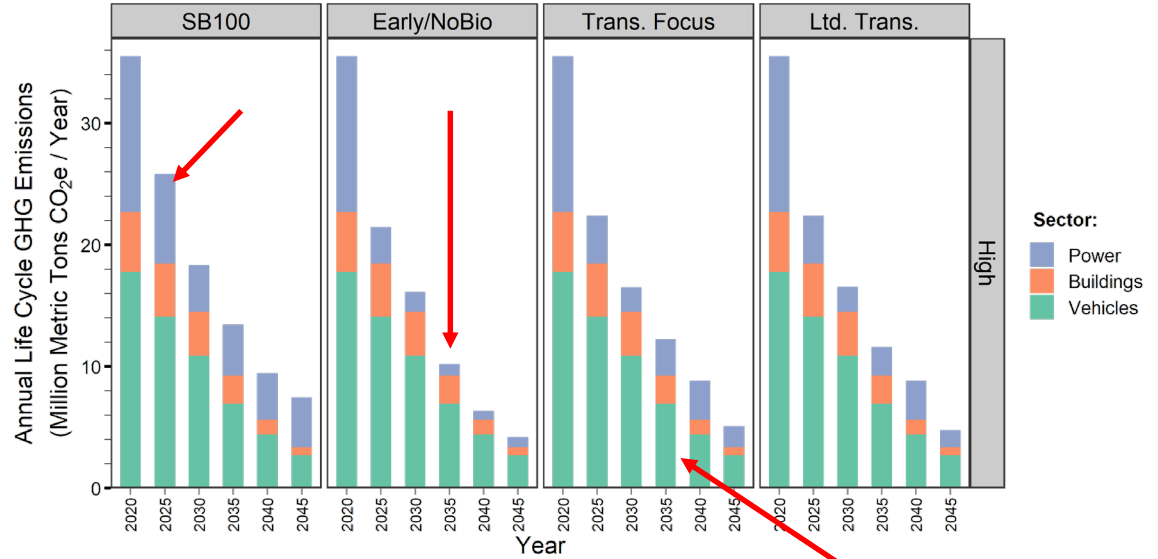
This last 10% is what is needed for
reliability during periods of very low
wind and solar, extremely high
demand, and unplanned events like
transmission outages.

An aerial photograph of a city, likely Los Angeles, showing a mix of residential and commercial buildings, green spaces, and a large parking lot. In the background, a range of mountains is visible under a clear sky. A semi-transparent dark box is overlaid on the center of the image, containing text.

Reliable, 100% renewable energy is achievable—and, *if coupled* with electrification of other sectors, provides significant greenhouse gas, air quality, and public health benefits.

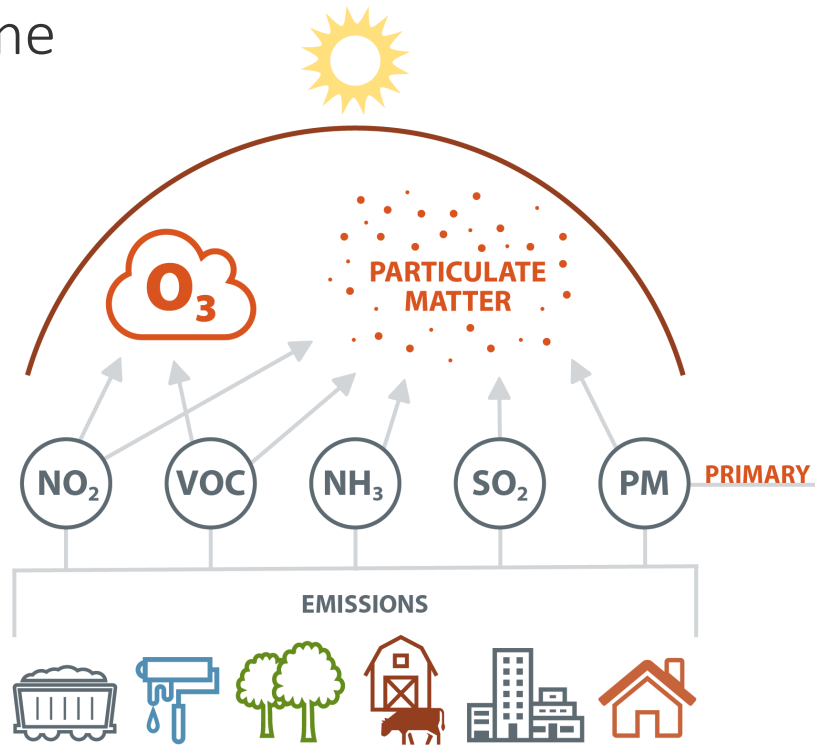
Life-Cycle Greenhouse Gas Emissions

All Sectors




Two pollutants of concern

1. Fine particulate matter
2. Ozone



All scenarios achieve 6%–8% reduction in concentrations of fine particulate matter.





Reductions in fine particulate matter result in **\$1.5 billion in public health savings** from avoided death and disease.

Controls

Demand

and

by Demand Projection

Resolution:

ers

Layer Specific Settings

ion to view

period

mer)

Delivery Losses

2045

2030 2035 2040 2045

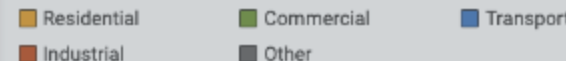


Data Legend

Peak Demand (MW) at Load Centers



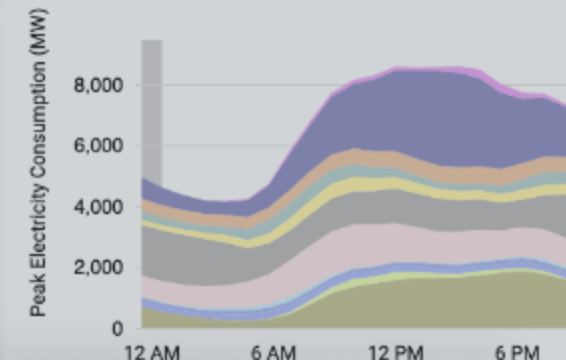
Peak Demand (MW) by Sector



Peak Demand by End Use



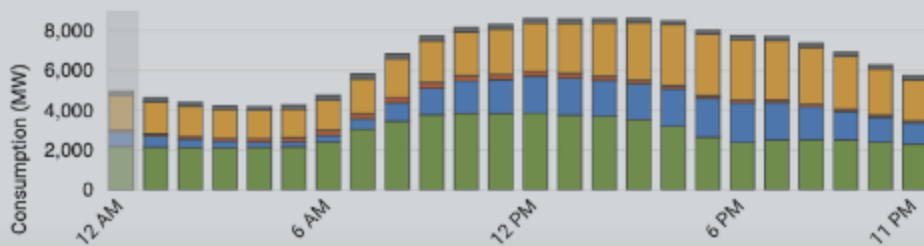
Peak Demand by End Use - Friday, 8/11/2045



Dive into the full LA100 findings

at LA100.org

Peak Demand (MW) by Sector - Friday, 8/11/2045



LA100

ACHIEVING 100% RENEWABLE ENERGY IN LOS ANGELES



LA100 Study

Completed

Unprecedented analysis ID'd multiple paths to achieve 100% target

Considers reliability, equity, sustainability and affordability

- Confirmed 100% by 2035 achievable
- Community & stakeholder input

Common Investments Across All Scenarios



LA100 Equity Strategies

Fall 2021-23

Community-driven, objective to achieve equity

Robust community engagement

Areas of Focus

- Improve air quality
- Solar access
- Energy Efficiency
- Affordable rates
- Demand management
- Debt relief
- EV charging access



2022 SLTRP

Fall 2021-2022 | 2035 & 2045 Targets

Our comprehensive integrated power plan

Recommends path forward to achieve our goals

- Integrates findings of LA100
- Community & stakeholder input
- Prioritizes reliability, resiliency, equity, affordability, sustainability

Considerations

- Workforce
- Building, Operating & Maintaining
- Cost to customers
- Supply Chain Risk
- Implementation and Feasibility

An aerial photograph of a city, likely Los Angeles, showing a dense urban area with various buildings, streets, and green spaces. In the background, a range of mountains is visible under a clear sky. A prominent green banner is overlaid across the middle of the image, containing the text 'Q/A' in white. The banner is semi-transparent, allowing some of the city details to be seen through it.

Q/A

LA100 Equity Strategies

Overview



An aerial photograph of Los Angeles, California, showing a dense residential area in the foreground and the city skyline in the distance. The sky is clear and blue. A large green rectangular overlay is positioned at the top of the image, containing white text. Another smaller green rectangular overlay is positioned in the lower-middle part of the image, containing white text.

LA100 Equity Strategies picks up where
LA100 left off to answer the question:

How can Los Angeles ensure its transition to
100% clean energy with high levels of
electrification **improves energy justice?**



Energy justice

Refers to the goal of achieving equity in both the **social and economic** participation in the energy system, while also **remediating** social, economic, and health **burdens** on those historically harmed by the energy system (“frontline communities”)

(Initiative for Energy Justice)

An aerial photograph of Los Angeles, showing a dense urban grid. The top right portion of the image is heavily shaded with a bright orange and yellow light, suggesting a sunset or sunrise. The rest of the city is in natural daylight. A green semi-transparent banner with a subtle geometric pattern is overlaid across the middle of the image, containing white text.

LA100 Equity Strategies draft vision:

A just and equitable clean energy future in LA

A photograph of a residential street with various houses. In the foreground, there's a black metal fence with stone pillars. Behind it, a row of houses is visible. On the left, a house with light green trim and a brown roof. In the center, a larger house with a dark grey roof and a prominent chimney. To the right, more houses and trees are visible under a clear blue sky. A green semi-transparent banner is overlaid on the middle of the image, containing white text.

LA100 Equity Strategies purpose:

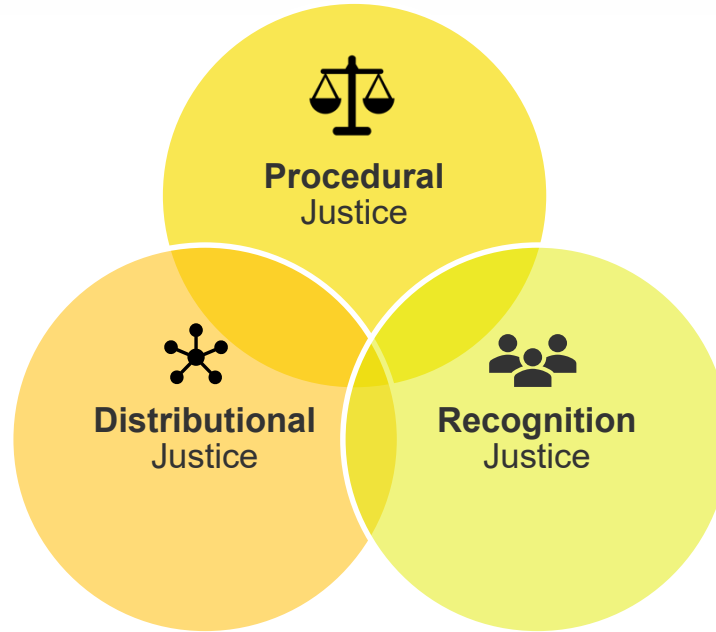
Identify **implementation-ready strategies** to achieve community-prioritized equity outcomes in LA's clean energy transition

**LA100
Equity
Strategies
is organized
around
three tenets
of justice**

Enables **community leadership** in the process

Ensure **just and equitable distribution** of benefits and impacts of clean energy transition

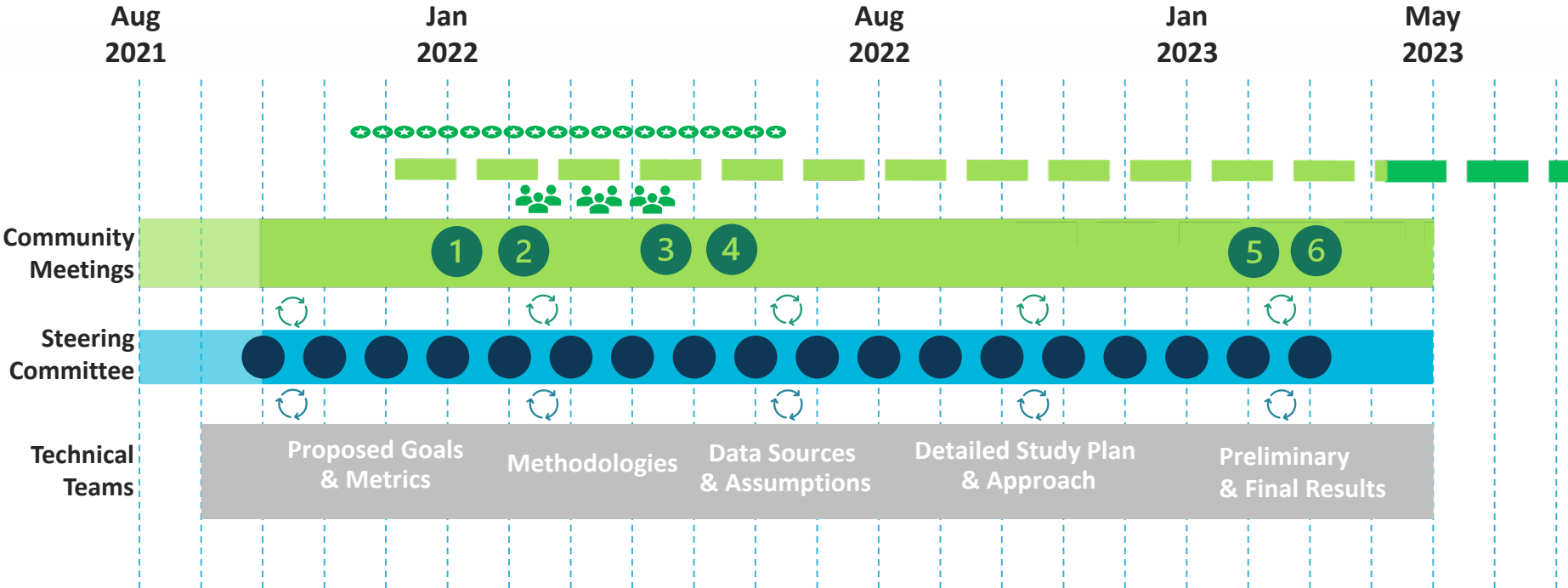
Understand and address past and current energy inequities



COMMUNITY-INFORMED PROCESS



LA100 EQUITY STRATEGIES SCHEDULE



Key connections

Feedback loops

Engagement

Community Engagement
 Steering Committee

Digital Engagement Phases

LA100 ES Digital Engagement
 Post-LA100 ES Engagement

Meetings

Steering Committee
 Community Meetings

Interviews

One on One
 Focus Groups

LA100 Equity Strategies Outcomes



Community-centered, implementation-ready strategies



Insights rooted in sociodemographic and energy data analysis and modeling capabilities



Associated metrics and indicators to measure progress toward strategy success



An aerial photograph of a city, likely Los Angeles, showing a mix of residential and commercial buildings, streets, and greenery. In the background, a range of mountains is visible under a clear sky. A prominent green horizontal banner is overlaid across the middle of the image, containing the text 'Q/A' in white. The lighting suggests it is either early morning or late afternoon, with long shadows and warm tones.

Q/A

LA100 Equity Strategies Steering Committee

Roles & Protocols



An aerial photograph of a densely populated urban neighborhood, likely in Los Angeles, showing a grid of streets, numerous houses, and some commercial buildings. A large green rectangular overlay is positioned in the center of the image, containing white text. The text describes the purpose of a steering committee, which is to represent communities and stakeholders affected by energy inequities and underrepresented in decision-making.

Purpose of the Steering Committee:

Represent LA communities and stakeholders who have been affected by the city's energy inequities and have been underrepresented in energy decision making

An aerial night view of a city, likely Los Angeles, showing a dense grid of lights from buildings and streets. A prominent green rectangular box is overlaid on the top left portion of the image, containing white text. The city lights create a bokeh effect in the foreground.

Role of the Steering Committee:

Provide strategic direction for the LA100 Equity Strategies project

For example: Contribute knowledge, input, feedback, ideas, and questions that inform the project

Process



Consensus model to promote collaboration and avoid contentious voting



Shared leadership rather than elected positions to foster collaboration and avoid competition



Breakout groups will function as a space for more focused deliberation amongst smaller groups



Once Equity Strategies are identified, LADWP, city officials, and other entities will decide on implementation plan



Steering Committee Protocols

- Primary Members and Alternates
- Sharing Information
- Email Communication
- Media Interaction
- Points of Contact



Advisory Committee for LA100 Equity Strategies

Role

- Provide **support** and **input** on strategies for addressing the issues, ideas, and approaches identified by the Steering Committee
- Coordinate among city decision-makers and city agency implementation partners.

Members

- Representatives from **City Council districts, key city agencies, and several stakeholder organizations** that are allies of environmental justice communities but not direct representatives.

Meetings

- **Every other month**
- After Steering Committee meetings.



Break

10 minutes



Visioning

What do *just* energy
outcomes look like in
LA?



First Round Community Engagement Meetings





Community engagement meetings at various stages of the LA100 ES process will **gather input from the public**

Kearns & West will facilitate meetings

Community Engagement Meetings: **Stage 1**



1. Equity outcomes visioning
2. Understanding energy inequities
3. Identifying just energy strategies



Community Engagement Meetings: **Stage 2**



1. Strategy analysis, data sources, assumptions
2. Metrics and indicators
3. Implementation pathways



Community Engagement Meetings: **Stage 3**



1. Preliminary results
2. Final results
3. Outreach tailored to specific communities



Agenda Format

Plenaries will include introductory overviews and reports back to all participants

Breakout sessions will identify and understand Los Angeles's energy justice

Breakout sessions will feature introductions, discussions, prioritization (polling exercises), and brainstorming



Breakout Groups

Breakout groups will identify Los Angeles's energy justice *problems and priorities* in key areas, which may include:

- Housing and buildings
- Jobs and workforce development
- Air quality and public health
- Transportation



Community Engagement Meetings

Meetings 1–2
Envisioning a Just
Energy
Future in LA

Date: week of Jan 22

- **Goal:** Identify outcomes and strategies
- **Format:** Project overview and breakout discussions
- **Data:** Community input on outcomes & strategies

Meetings 3–4
Co-Defining Paths
to Energy Equity
in LA

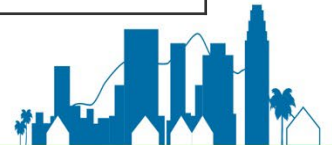
Date: week Feb. 28

- **Goal:** Provide input to study plan
- **Format:** Meeting overview and breakout discussions
- **Data:** Community input on study plan (metrics, strategies)



Examples of breakout questions to elicit stakeholder input

<p><i>Q1: What do you see as LA's just and equitable clean energy future?</i></p>	<p><i>Q2: What energy inequities do you see and what are some of the causes?</i></p>	<p><i>Q3: What strategies need to be designed to redress these inequities?</i></p>
<p>Informs prioritization of outcomes such as reduced electricity burden in disadvantaged communities</p>	<p>Informs identification of factor influencing inequities</p>	<p>Informs analysis of strategies, such as alternative tariff structures and building efficiency upgrades</p>



Wrap Up & Next Steps

Next Steering Committee Meetings

Wed, November 17,
10:00–12:00 p.m. PT

- **Virtual**
- Draft committee objectives, guiding principles
- Co-defining energy/environmental justice in LA

Thurs., December 9,
10:00–12:00 p.m. PT

- **Virtual**
- Initial feedback on proposed modeling and analysis goals, metrics, and methodologies.

First Advisory Committee Meeting

- Date, time, and topics to come



Discussion
