



**LA100 Equity Strategies
Advisory Committee Kickoff Meeting
December 9, 2021**





Welcome and Opening Remarks



Reiko A. Kerr
Senior Assistant General Manager
Power System Engineering,
Planning, and Technical Services






Advisory Committee Meeting #1

Item	Time
Welcome	10:00–10:10 a.m.
Agenda Overview/Introduction to Leads	10:10–10:20 a.m.
Advisory Committee Roundtable Introductions	10:20–10:50 a.m.
LA100 Study Overview	10:50–11:00 a.m.
LA100 Equity Strategies Orientation	11:00–11:20 a.m.
Advisory & Steering Committee Roles and Protocols	11:20–11:30 a.m.
What We Heard: <ul style="list-style-type: none">- First Steering Committee Meeting- LADWP & NREL Steering Committee Member Organization Meetings	11:30–11:45 a.m.
Engaging the Broader Community	11:45–11:55 a.m.
Wrap Up and Next Steps	11:55–12:00 a.m.





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





Los Angeles Department of Water & Power (LADWP)

Project Leads



Simon Zewdu
Director
Transmission Planning,
Regulatory, and Innovation Division



Pjoy T. Chua, P.E.
Assistant Director
Transmission Planning, Regulatory,
and Innovation Division



Steve Baule
Utility Administrator
LA100 Equity Strategies Oversight
& UCLA Contract Administrator



National Renewable Energy Laboratory (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



UCLA *LA100 Equity Strategies Partners*



Dr. Cassie Rauser
Executive Director, UCLA
Sustainable LA Grand Challenge
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Dr. Stephanie Pincetl
Professor, Institute of the
Environment and Sustainability
Founder and Director, UCLA
California Center for Sustainable
Communities (CCSC)
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Dr. Greg Pierce
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Kelly Trumbull
Senior Project Manager, UCLA
Luskin Center for Innovation (LCI)
Email: ktrumbull@luskin.ucla.edu

Kearns & West



Joan Isaacson,
Principal/Sr Facilitator



Christian Mendez,
Sr Associate/Equitable Engagement



Jasmine King,
Project Coordinator/Equitable
Engagement





Roundtable Introductions





Advisory Committee Roster

Organization	Representative
Center for Energy Efficiency and Renewable Technologies (CEERT)	V. John White, Jose Carmona
Civil & Human Rights and Equity Department	Claudia Luna
LA City Council District 02 - CM Paul Krekorian	Aaron Ordower, Matt Hale
LA City Council District 03 - CM Bob Blumenfield	Councilmember Bob Blumenfield, Jeff Jacobberger
LA City Council District 04 - CM Nithya Raman	Councilmember Nithya Raman, Josh Nuni
LA City Council District 05 - CM Paul Koretz	Councilmember Paul Koretz, Andy Shrader
LA City Council District 06 - CP Nury Martinez	Council President Nury Martinez, Max Podemski
LA City Council District 07 - CM Monica Rodriguez	Anissa Raja
LA City Council District 09 - CM Curren Price	Sherilyn Correa, Christopher Diaz
LA City Council District 10 - CM Mark Ridley-Thomas	Porsha Cropper, Kayla Tilton
LA City Council District 11 - CM Mike Bonin	Councilmember Mike Bonin, Krista Kline
LA City Council District 12 - CM John Lee	Councilmember John Lee, Hannah Lee
LA City Council District 14 - CM Kevin de Leon	Daniel Reeves, Susana Lopez
LA City Council District 15 - CM Joe Buscaino	Jacob Haik
Housing Authority of the City of Los Angeles (HACLA)	Marisela Ocampo, Lisette Belon
International Brotherhood of Electrical Workers (IBEW)	Gus Corona, Martin Marrufo
LA Cleantech Incubator	Mayte Sanchez, Lauren Harper
Los Angeles City Planning Department (LACP)	Arithi Varma, Shana Bonstin
Los Angeles World Airport (LAWA)	Justin Erbacci, Beca Dolten
Neighborhood Council Sustainability Alliance	Ernie Hidalgo
Office of Public Accountability (Rate Payer Advocate)	Fred Pickel, Camden Collins
Office of the Mayor	Lauren Faber O'Connor
Port of Los Angeles (POLA)	Carlos C. Baldenegro
Sierra Club	Katherine Ramsey, Francis Yang
Southern California Association of Non-Profit Housing	Alan Greenlee, Chris Bowan
USC Equity Research Institute	Vanessa Carter, Edward Muna



Advisory Committee Roundtable Introductions

Each member please introduce:

- Yourself
- The organization/agency you represent
- The focus of your organization/agency





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**

Scenarios Based on LA Advisory Group Priorities

Each Scenario Evaluated Under Different Customer Demand Projections (different levels of energy efficiency, electrification, and demand response)

Moderate

High

Stress



SB100

Evaluated under **Moderate, High, and Stress Load Electrification**

- 100% clean energy by **2045**
- Only scenario with a target based on retail sales, not generation
- Only scenario that allows up to 10% of the target to be natural gas offset by renewable electricity credits
- Allows existing nuclear and upgrades to transmission



Early & No Biofuels

Evaluated under **Moderate and High Load Electrification**

- 100% clean energy by **2035**, 10 years sooner than other scenarios
- No natural gas generation or biofuels
- Allows existing nuclear and upgrades to transmission



Transmission Focus

Evaluated under **Moderate and High Load Electrification**

- 100% clean energy by **2045**
- Only scenario that builds new transmission corridors
- No natural gas or nuclear generation



Limited New Transmission

Evaluated under **Moderate and High Load Electrification**

- 100% clean energy by **2045**
- Only scenario that does not allow upgrades to transmission beyond currently planned projects
- No natural gas or nuclear generation



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, with a dense cluster of skyscrapers in the foreground. A dark, semi-transparent rectangular box is overlaid on the left side of the image, containing white and green text.

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

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.



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



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



A close-up, low-angle shot of surgeons in an operating room. They are wearing blue scrubs and surgical caps. The lighting is bright and clinical, with a blue tint. The focus is on the surgeons' faces as they look down, likely at a patient.

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

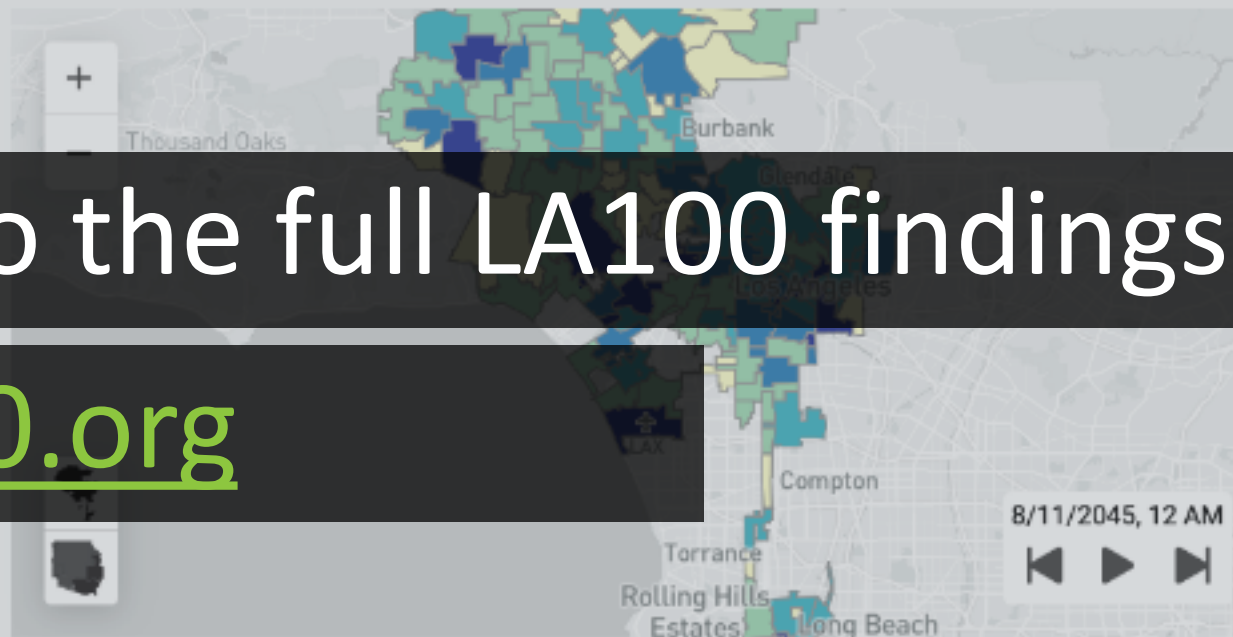
Controls



Demand

Dive into the full LA100 findings

at LA100.org

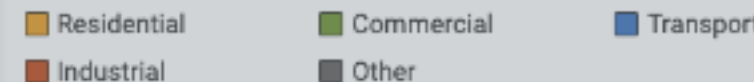


Data Legend

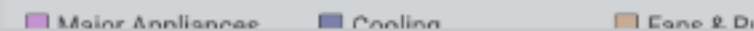
Peak Demand (MW) at Load Centers



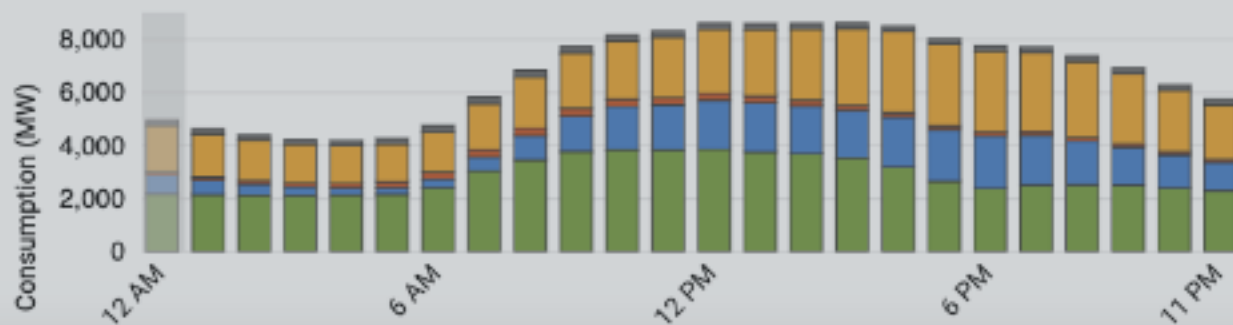
Peak Demand (MW) by Sector



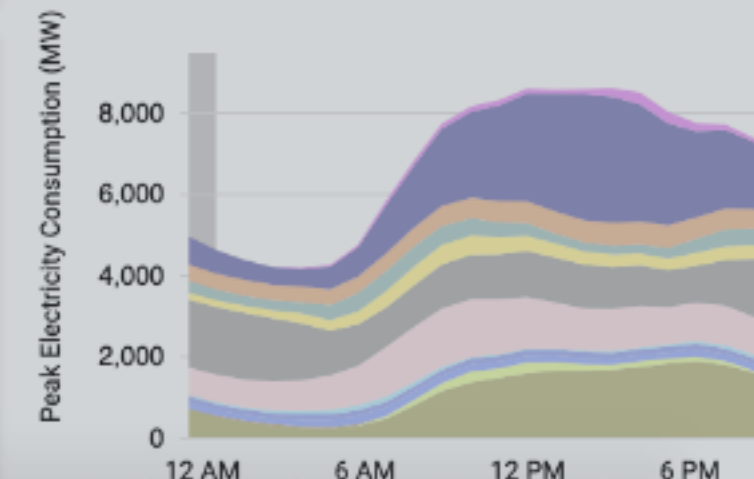
Peak Demand by End Use



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



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



An aerial photograph of a city, likely Los Angeles, showing a dense urban landscape 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 on the left side of the image, containing the text "Discussion / Q&A".

Discussion / Q&A

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



Accelerated Transformation

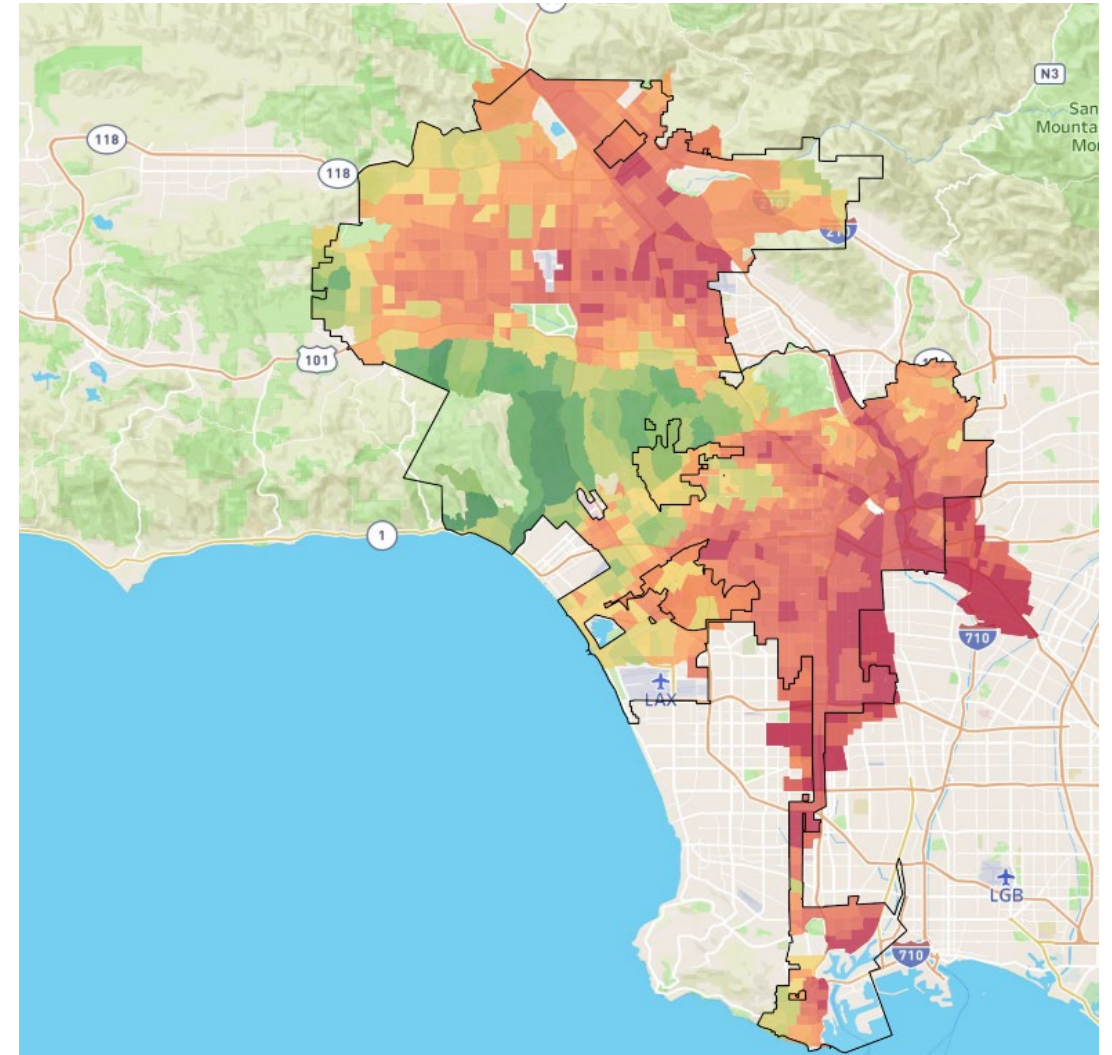
- Increase in Renewable Energy
- Significant Electrification of the Transportation Sector
- Electrification of the Building Stock
- Increase in Investments/Projects
- Expansion of Existing Programs
- Development of New Programs
- Creation of New Jobs



Current State

- CalEnviroScreen uses **environmental, health, and socioeconomic** information to produce scores for every census tract in the state
- **Approximately 47%** of the City of Los Angeles is designated as Disadvantaged Community (DAC)

CalEnviroScreen 3.0



An aerial photograph of a city, likely Phoenix, Arizona, 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. The lighting suggests it's either early morning or late afternoon, with long shadows and warm tones.

All communities will **share in the benefits** of the clean energy transition—but **improving equity in participation and outcomes** would require intentionally designed policies and programs.

An aerial photograph of a city, likely Los Angeles, showing a dense urban landscape 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 on the left side of the image, containing the text "Discussion / Q&A".


Discussion / Q&A



LA100 Equity Strategies

Orientation



An aerial photograph of Los Angeles, California, showing a dense residential neighborhood in the foreground and the city skyline in the background. The sky is clear and blue. A green semi-transparent banner is overlaid at the top of the image, containing white text. Another green semi-transparent banner is overlaid in the lower-middle section, 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 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”)

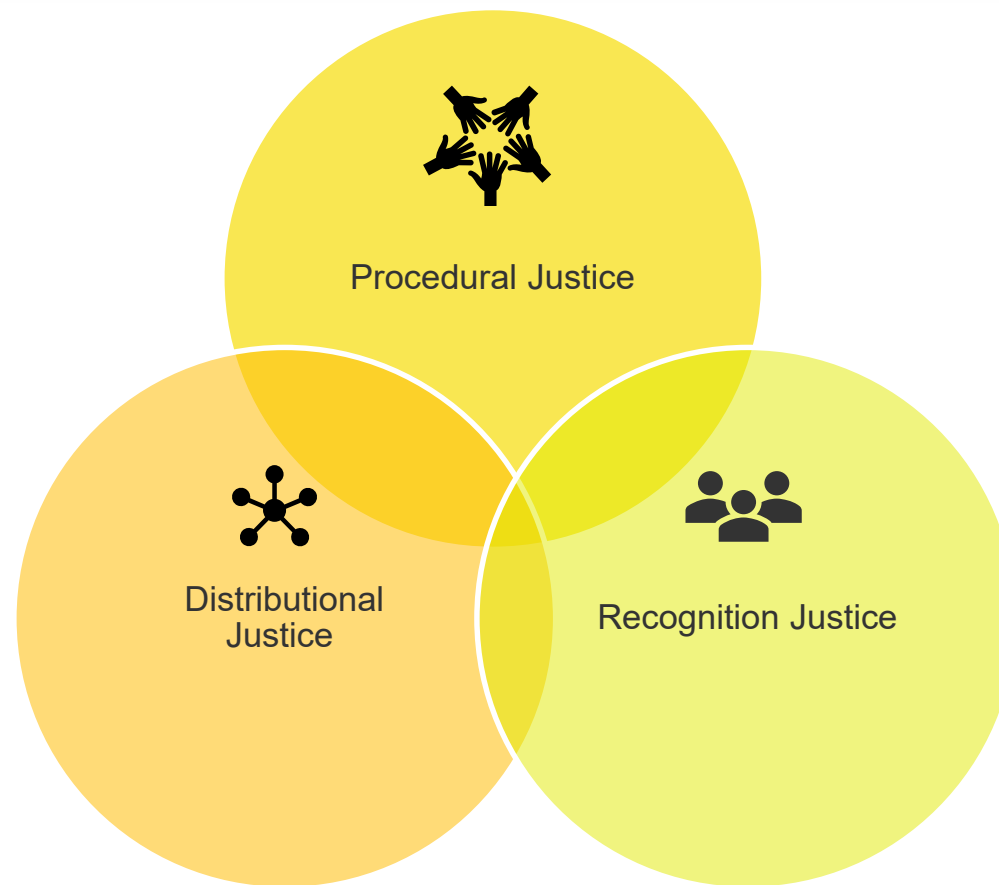
([Initiative for Energy Justice](#))

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

Enable **community leadership** in the process

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

Understand and address past and current energy inequities



An aerial photograph of Los Angeles, California, showing a dense urban landscape. The image is bathed in a warm, golden light, likely from a low sun, creating a hazy atmosphere. In the foreground, there's a detailed view of residential and commercial buildings with various roof colors. The background shows a vast expanse of the city stretching towards the horizon. A semi-transparent green banner is overlaid across the middle of the image, containing white text.

LA100 Equity Strategies draft vision:

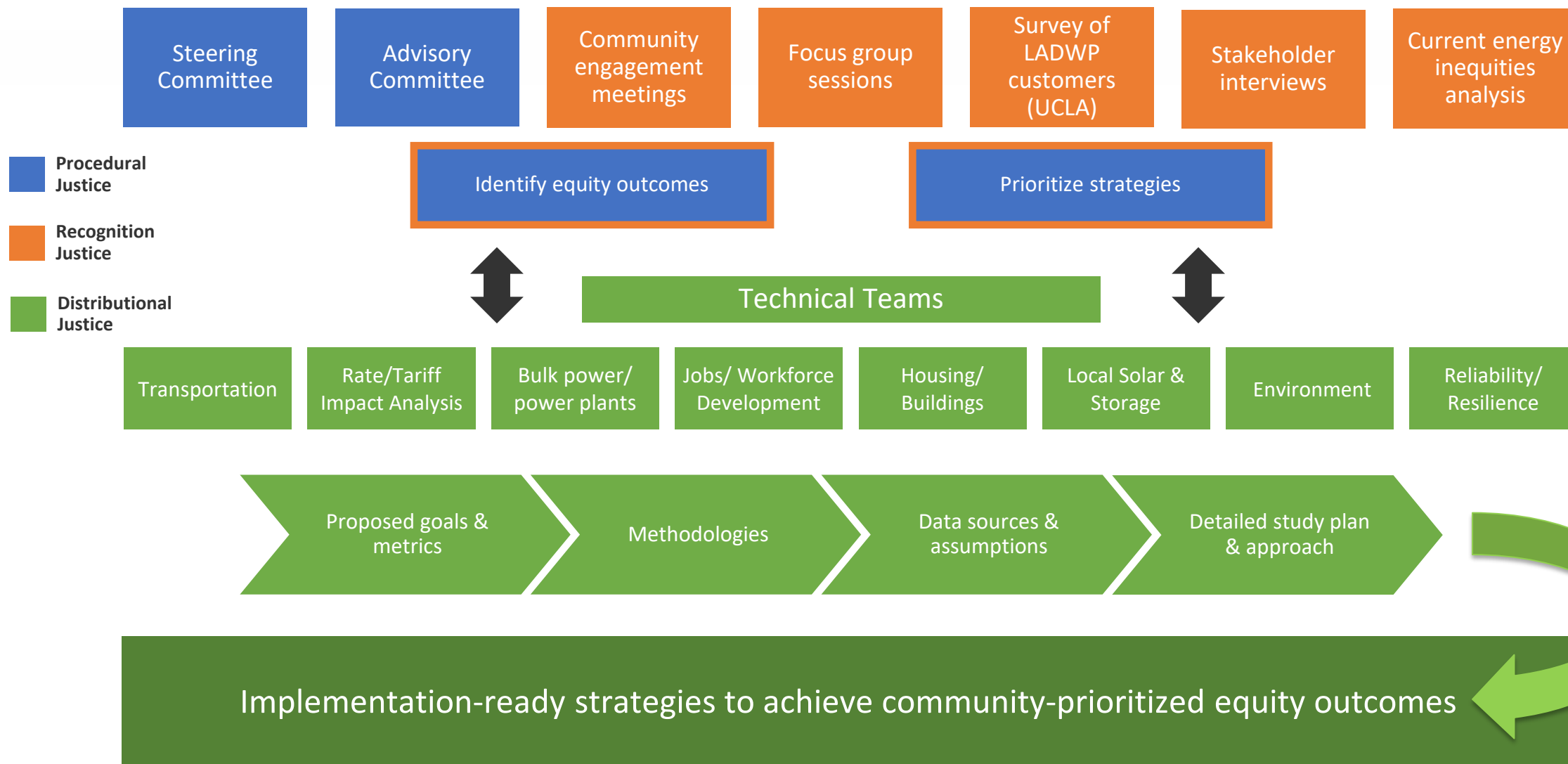
A just and equitable clean energy future in LA

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 gable. To the right, another house with a grey roof and a satellite dish. The sky is clear blue with a few wispy clouds. A sidewalk runs along the right side of the street.

LA100 Equity Strategies purpose:

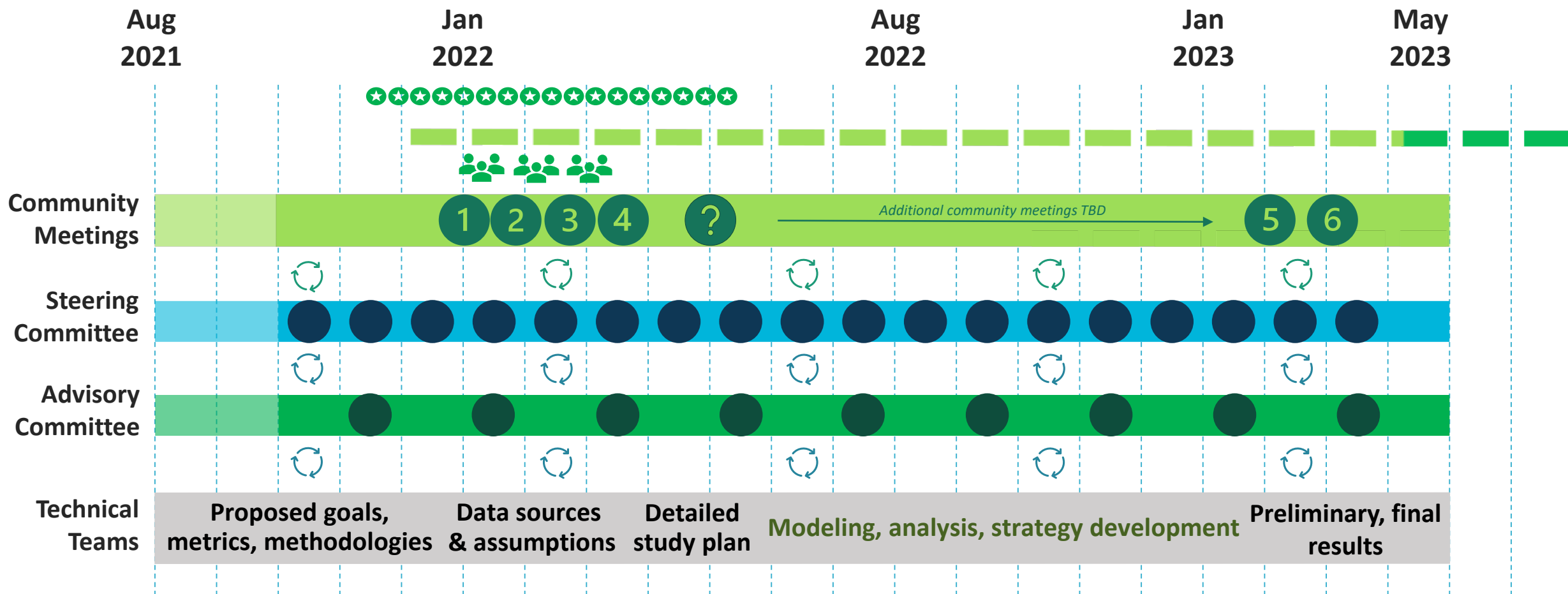
Identify implementation-ready strategies to achieve community-prioritized equity outcomes in LA's clean energy transition

COMMUNITY-INFORMED PROCESS





LA100 EQUITY STRATEGIES: TIMELINE & FRAMEWORK



Key connections

Feedback loops

Engagement

Community Engagement

Steering Committee

Advisory Committee

Digital Engagement Phases

LA100 ES Digital Engagement

Post-LA100 ES Engagement

Meetings

Community Meetings

Steering Committee

Advisory Committee

Interviews

One on One

Focus Groups

An aerial photograph of a city, likely Los Angeles, showing a dense urban landscape 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 on the left side of the image, containing the text "Discussion / Q&A".

Discussion / Q&A

LA100 Equity Strategies Committees

Roles & Protocols



An aerial night view of a city skyline, likely Los Angeles, with numerous illuminated buildings and streets. A semi-transparent green rectangular box is overlaid on the upper portion of the image, containing white text. The sky is dark with some light clouds, and the city lights create a vibrant contrast against the night.

Role of the Steering Committee:

Provide strategic and technical direction to the LA100 Equity Strategies study through the identification of prioritized energy equity outcomes and play a critical role in broader community engagement to ensure community members are involved in the process.

A wide-angle, nighttime photograph of a city skyline, likely Los Angeles, with numerous skyscrapers and buildings illuminated against a dark sky. The lights create a bokeh effect in the foreground. A green semi-transparent box is overlaid on the lower half of the image, containing text.

Role of the Advisory Committee:

Provide input, ideas, comments, perspectives, and feedback on the feasibility of strategies and approaches identified by the Steering Committee and identify Equity Strategy priorities that intersect with other City departments' programs and/or have potential for multi-benefit programs and partnerships with other City departments.



Expectations



Primary and alternate representatives



Communicating with committee members



Media inquiries



Project contact information



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Discussion / Q&A

What We Heard

Themes from:

- Steering Committee Kickoff
- LADWP & NREL's Meetings with Steering Committee Member Organizations



Steering Committee Kickoff | What We Heard



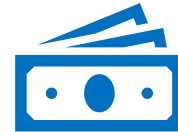
Center justice *before* deciding on technical solutions



Don't hold back on **scope**; equity strategies should be cross-sectoral



Learn from precedents (i.e., in LA & other cities and countries)



Cost, affordability, and utility burdens are *crucial challenges*



Strive for **sustainable, implementable, long-lasting strategies**



LA's infrastructure is a **limitation** (e.g., rooftop conditions)



Messaging, vision, & transparency are *key*



Be aware of **equity on the ground**:

- Cross-sectoral and intersectional
- Energy as a basic right
- Equal community access for new programs



Co-designed community engagement is *essential*





**LADWP & NREL
Meetings with
Steering Committee
Member Organizations**

Steering Committee Member Organization Meetings Conducted

Organization	Representative
Climate Resolve	Jonathan Parfrey
DWP-NC MOU Oversight Committee	Tony Wilkinson
Enterprise Community Partners	Jimar Wilson
Los Angeles Alliance for a New Economy (LAANE) / RePower LA Coalition	Agustín Cabrera
Move LA	Denny Zane & Marisa Garcia
Pacoima Beautiful	Veronica Padilla Campos
The South Los Angeles Transit Empowerment Zone (SLATE-Z)	Zahirah Mann & April Sandifer
South LA Alliance of Neighborhood Councils	Thryeris Mason
Strategic Concepts in Organizing and Policy Education (SCOPE)	Gloria Medina & Tiffany Wong

Steering Committee Member Organization Meetings To Be Scheduled

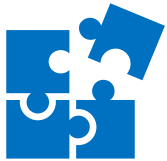
Organization	Representative
Alliance of River Communities (ARC)	Vincent Montalvo
Community Build, Inc.	Robert Sausedo
Pacific Asian Consortium in Employment (PACE)	Celia Andrade

Steering Committee Member Organization Feedback

Steering Committee member organizations prioritized:



Multi-pronged, community-specific engagement guided by member organizations



A long-lasting relationship beyond the project



LADWP's commitment to:

- being present at each level of community engagement
- building trust, mutual understanding, and rapport



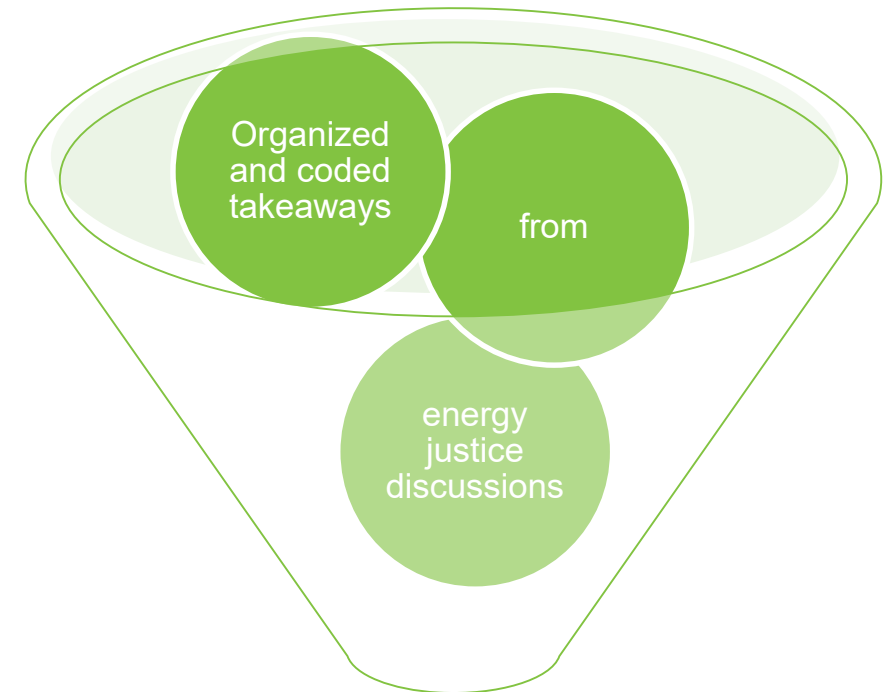
Steering Committee Feedback: Developing Equity Tenets

Agustín Cabrera

LAANE / RePower LA Coalition

“ I think what we can do, as a committee, is develop **equity tenets** that can be used throughout the department—in **program design and development**. People can ask:

- Are they referencing the equity tenets?
- Are there guiding questions that come with the tenets?
- At the end of the process, what are some key programmatic and policy issues we need to tackle as a committee? Such as: affordability, accessibility, accountability.



**Recognizing Difference
and
Community-Specific Focus**

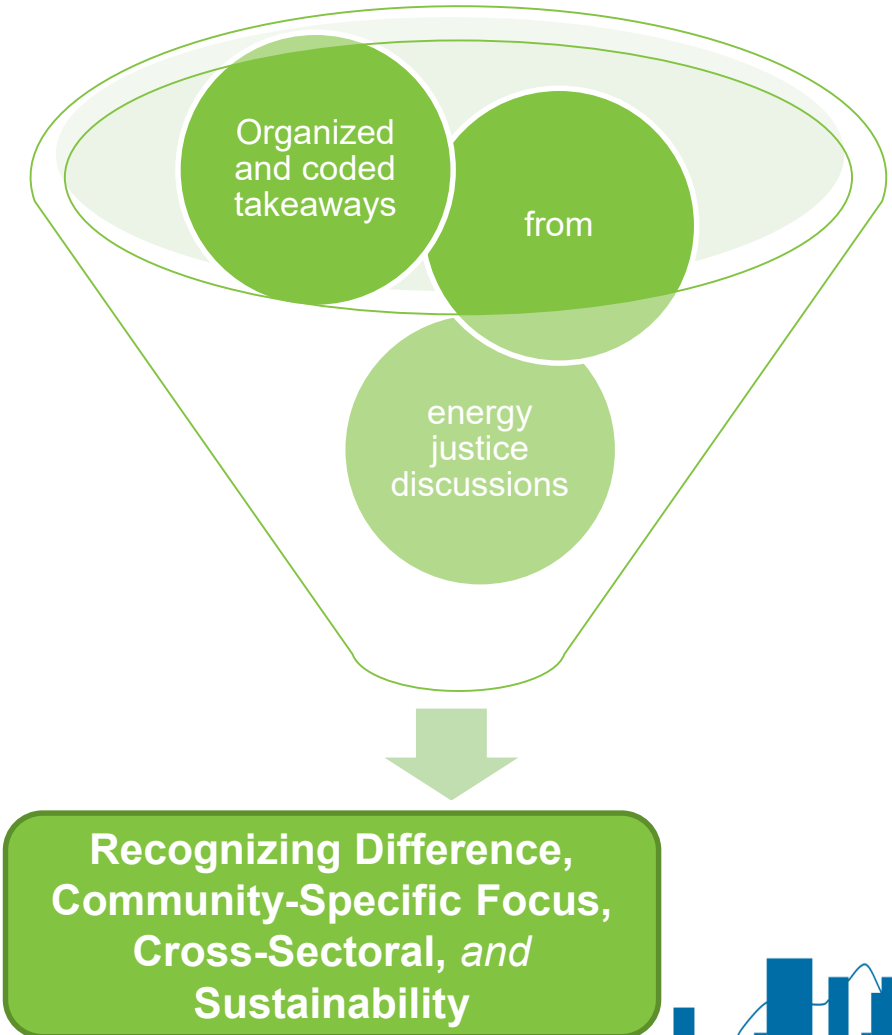


Steering Committee Feedback: Developing Seamless & Holistic Energy Justice

Thryeris Mason
South LA Alliance of
Neighborhood Councils

“**Seamlessness.** Services that the west side is receiving should also look like South LA. So that those communities aren't rent *and* utility burdened.”

You want to appeal to quality-of-life issues. If we provide you certain services at a certain rate, that isn't as taxing as other rates, there are opportunity costs. For example, you could have money to pay for education. If you have extra money, what would you do with it? [It's about] putting a community in a place to be able to realize any of the gains for any technological innovations. It's not just utilities—it's also transportation, housing, etc.—a **holistic view**, including health care. ”



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Discussion / Q&A

Engaging the Broader Community





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

Community Engagement Meetings: **Stage 1**



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



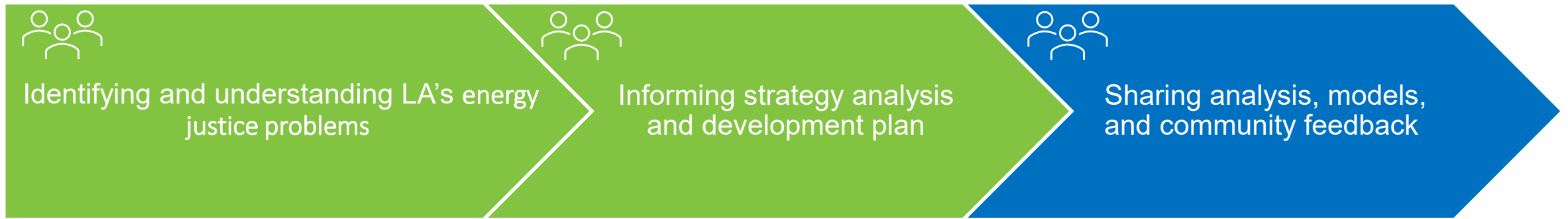
Community Engagement Meetings: **Stage 2**



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

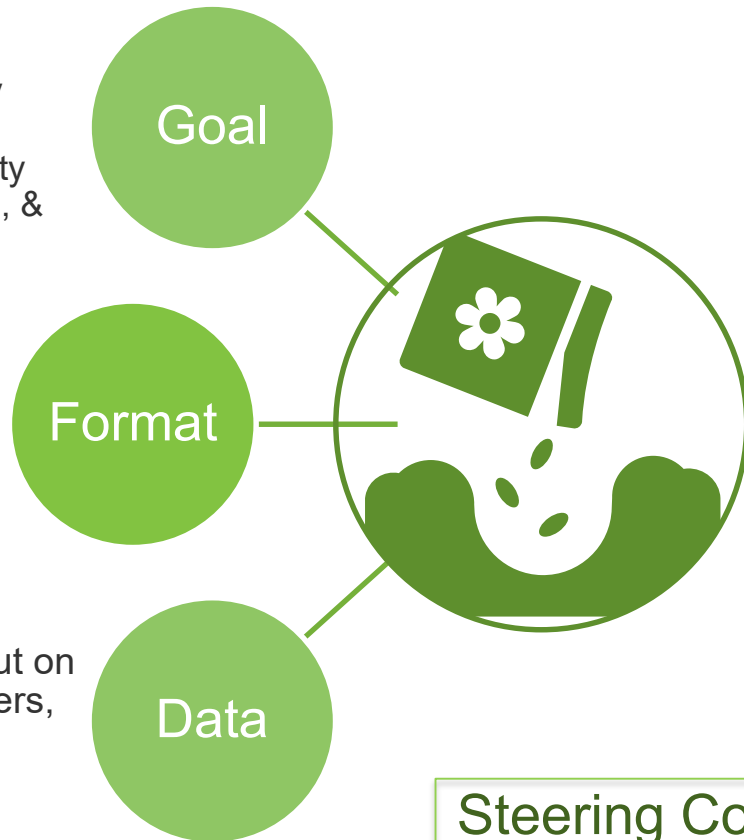


Community Engagement Meetings

First Two Meetings

Envisioning a Just Energy Future in LA

- Share project overview
- Introduce energy justice concepts
- Gather community concerns, issues, & aspirations



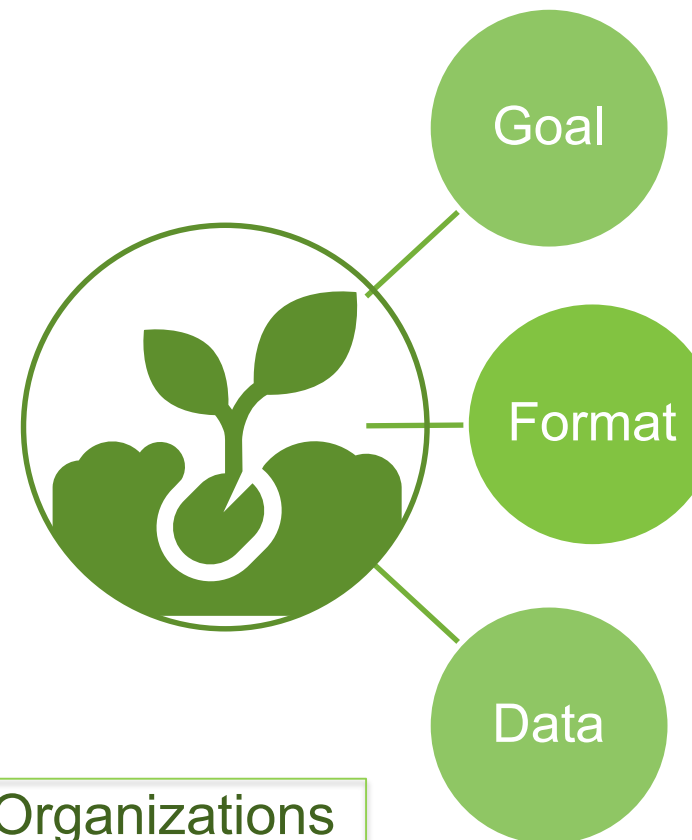
- Project overview
- Breakout discussions

- Community input on problems, barriers, and desired outcomes

Subsequent Meetings

Co-Defining Paths to Energy Equity in LA

- Gather community input on study plan
- Prioritize equity metrics & strategies



- Meeting overview
- Breakout discussions

- Community input on strategies

Steering Committee Organizations
as Co-Hosts



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Discussion / Q&A

Wrap Up and Next Steps

Advisory Committee Meeting #2

Planned for February 2022



Thank you!
