

LA100 Equity Strategies Steering Committee Meeting #4 February 23, 2022







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



Stephanie Spicer Community Affairs Manager

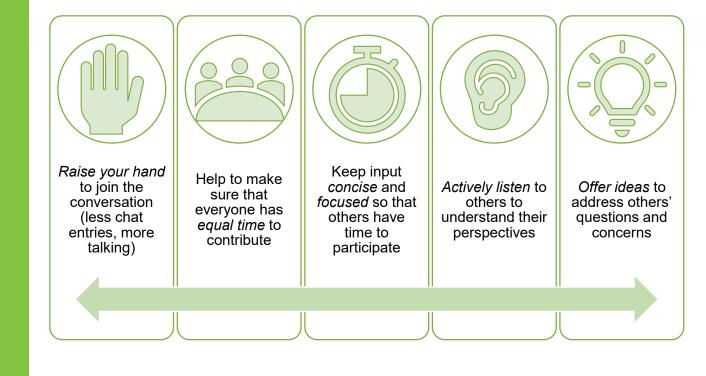


Agenda

Start Time	Item
10:00 a.m.	Welcome
10:05 a.m.	Meeting Purpose and Agenda Overview
10:10 a.m.	Roundtable Co-Designing Meeting Agendas
10:30 a.m.	What We Heard Report Out from Last Meeting
11:00 a.m.	Community Meetings
11:15 a.m.	Public Outreach
11:20 a.m.	Feedback on Proposed Equity Strategy Development Pathways
11:55 a.m.	Wrap Up and Next Steps



Our Guide for Productive Meetings





Steering Committee Roster

Organization	Representative	
Alliance of River Communities (ARC)	Vincent Montalvo	
City of LA Climate Emergency Mobilization Office (CEMO)	Marta Segura, Rebecca Guerra	
Climate Resolve	Jonathan Parfrey, Bryn Lindblad	
Community Build, Inc.	Robert Sausedo	
DWP-NC MOU Oversight Committee	Tony Wilkinson, Jack Humphreville	
Enterprise Community Partners	Jimar Wilson, Michael Claproth	
Esperanza Community Housing Corporation	Nancy Halpern Ibrahim	
Los Angeles Alliance for a New Economy (LAANE)	Kameron Hurt, Alicia Morales- Perez	
Move LA	Denny Zane, Eli Lipmen	
Pacific Asian Consortium in Employment (PACE)	Celia Andrade, Susan Apeles	
Pacoima Beautiful	Veronica Padilla Campos, Melisa Walk	
RePower LA	Gina Palencar	
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)	Agustín Cabrera, Tiffany Wong	



Roundtable

Co-Designing Meeting Agendas



Discussion items for future meetings?

Add ideas to the whiteboard!

Whiteboard will remain open one week for additional input

Report Out from Last Meeting

What We Heard



We asked: What do just energy outcomes look like for each topic? Ideas were captured on whiteboards and will be used to inform strategy analysis pathways.

Topics:

What do just energy transitions and outcomes look like in:

- Residential buildings
- Commercial buildings
- Local solar and storage
- Transportation
- Electricity reliability and resilience
- Air quality, health, and environment
- Jobs and workforce development



Residential Building Efficiency & Electrification

- Building efficiency includes installing energy saving equipment, improving building insulation, and air sealing.
- Building electrification includes electrification of space heating, water heating, clothes drying, and cooking.



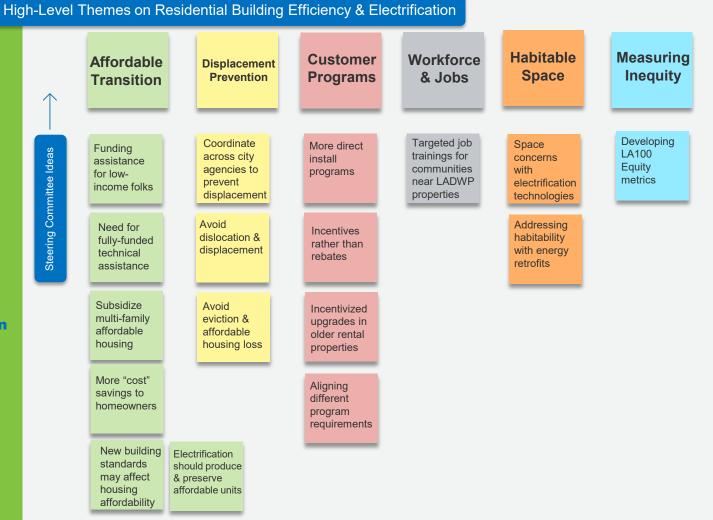
What do *just energy outcomes* look like for homes and households?

Highlights

Residential Building

Efficiency & Electrification

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High-Level Themes on Residential Building Efficiency & Electrification



Residential Building

Efficiency & Electrification



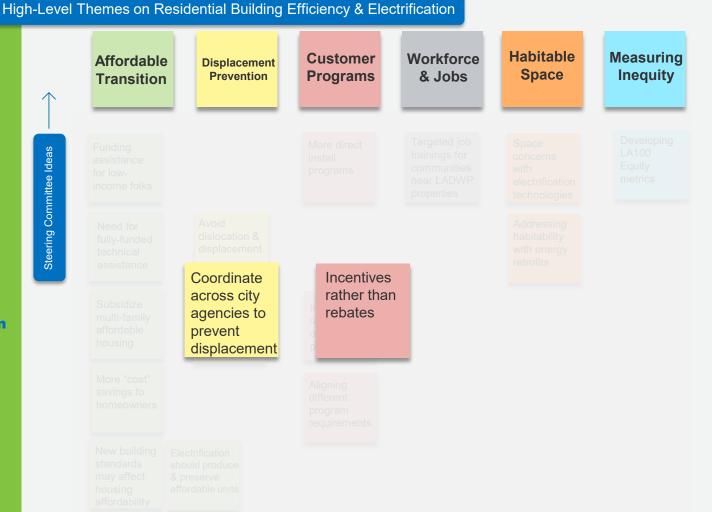
Affordable Transition		Customer Programs	Workforce & Jobs	Habitable Space	Measuring Inequity
Funding assistance for low- income folks	Coordinate across city agencies to prevent displacement	More direct install programs	Targeted job trainings for communities near LADWP properties	Space concerns with electrification technologies	Developing LA100 Equity metrics

Highlights

Residential Building

Efficiency & Electrification





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Commercial Building Efficiency & Electrification

What do just energy outcomes look like for schools, community buildings, and local businesses?

- Building efficiency includes installing energy saving equipment, improving building insulation, and air sealing.
- Building electrification includes electrification of space heating, water heating, clothes drying, and cooking.



High-Level Themes on Commercial Building Efficiency & Electrification

Highlights

Commercial Building

Efficiency & Electrification



\uparrow	Affordable Transition		City Infrastructure, Programs, & Policies	Habitable Space
Steering Committee Ideas	Technical assistance for businesses to achieve transition	Help small business understand affordable options	City buildings should be the example	Heat pumps more efficient than air conditioners
Steering Co	Rent burden for small & large employers	Ensure rent increases don't force small business closures, esp. in BIPOC communities	Formalize & expand commercial direct install program	
	New financing models to ameliorate upfront cost concerns		Affordable incentives for building owners to transition	
	Affordability of energy savings			
	Consideration of economic effects			

Workforce Development

Creating highroad workforce standards & pathways Multi-benefit solutions: building trades collaborate for funding & workforce

Local & targeted hiring workforce Mitigate any job loss from

transition

Work with impacted unions

Community LADWP job entry in commercial direct install programs

High-Level Themes on Commercial Building Efficiency & Electrification

Highlights

Commercial Building

Efficiency & Electrification



Affordable Transition

Technical assistance for businesses to achieve transition

Steering Committee Ideas

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Workforce

Development

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Highlights

Commercial Building

Efficiency & Electrification

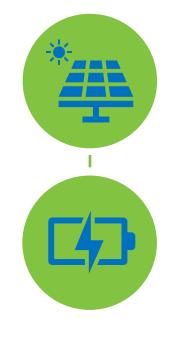


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\uparrow		Affordable Transition	City Infrastructure, Programs, & Policies	Habitable Space	Workforce Development
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Steering Cor					
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		front cost ncerns	example		

Consideration of economic effects

Local Solar & Storage

- Local solar includes residential and commercial rooftop solar and community or shared solar.
- Storage refers to residential- or commercial-scale battery storage of electricity.



What do *just energy outcomes* look like in design and deployment of solar and storage?



High-Level Themes on Local Solar & Storage

Highlights

Local Solar & Storage



Affordable Transition

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Steering Committee Ideas

Increase financial benefits to community solar participants

Consider sharing of infrastructure for rooftop solar

Effect on affordable housing financing model

Organizational capacity of low-income solar & storage owners Socio-spatial Distribution of Risk

Consider community impact of storage location

Rooftop solar location may be less important over time

Potential environmental dangers of batteries City Infrastructure, Programs, & Policies

Program alignment: solar/storage with selfgeneration

Coordinate & align programs (solar & storage)

Technical assistance on both solar and storage Targeted Outreach & Implementing Equity

Communicate how battery storage helps with daily needs

Increase solar/storage options outreach in low-income communities of color

Maintenance

Structural integrity of older roofs

High-Level Themes on Local Solar & Storage

Highlights

Local Solar & Storage



Affordable Transition

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Steering Committee Ideas

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High-Level Themes on Local Solar & Storage



Highlights

Local Solar & Storage



participants

Targeted Outreach & Implementing Equity

Increase solar/storage options outreach in low-income communities of color

Transportation

- Clean transportation includes
 - electric cars, trucks, buses, and e-scooters, and other alternative fuel vehicles
 - equipment to charge/fuel them
 - and active forms of transportation like walking and biking.

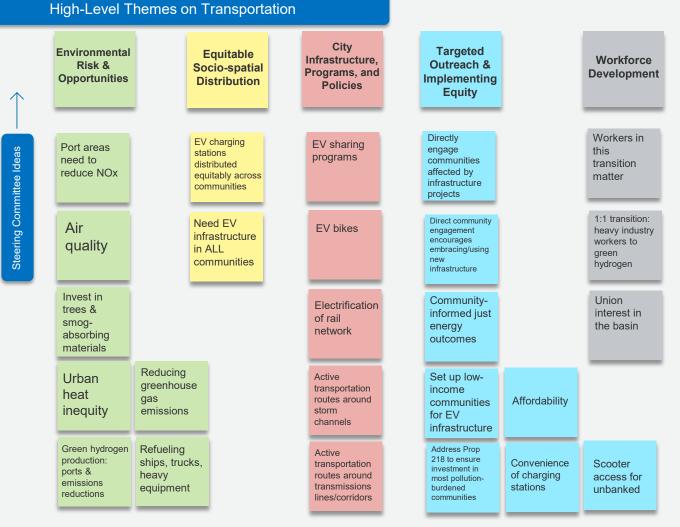


What do *just energy outcomes* look like in the transition to clean transportation?

Highlights

Transportation

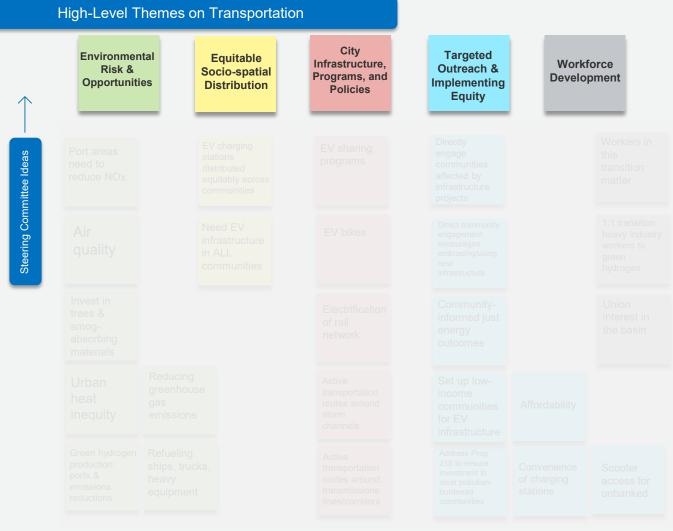
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Highlights

Transportation

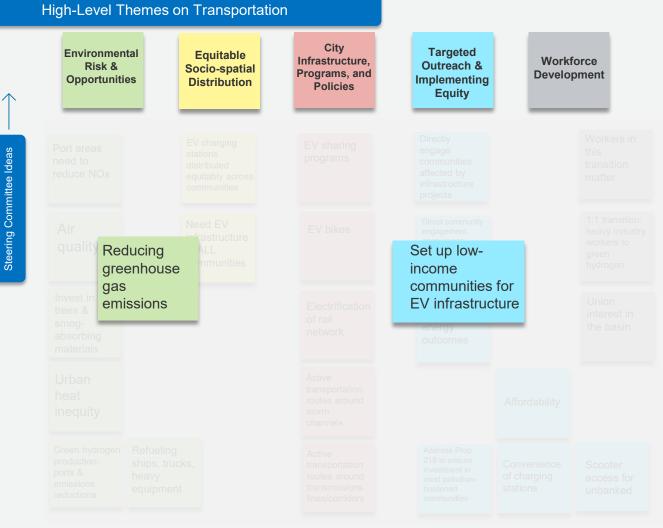
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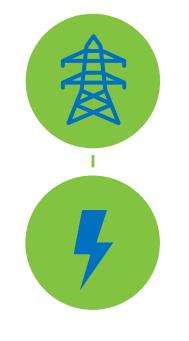
Transportation

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Electricity Reliability & Resilience

- Electricity reliability includes how often there are local electricity outages and the ability to connect new technologies like solar energy and electric vehicles to the grid.
- Resilience refers to the preparation for and capacity to recover quickly from electricity outages.

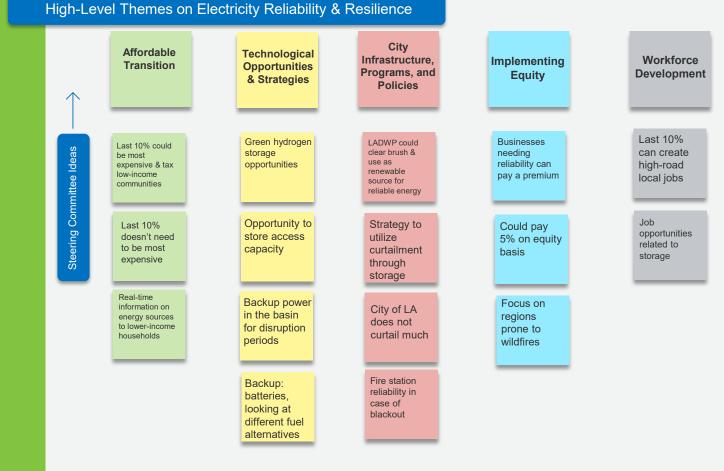


What do *just energy outcomes* look like in reliability and resilience?

Highlights

Electricity Reliability

& Resilience



High-Level Themes on Electricity Reliability & Resilience



High-Level Themes on Electricity Reliability & Resilience



Air Quality, Health, & Environment

 Energy system air quality and health impacts and benefits include particulate matter and ozone from fuel combustion in vehicles and in energy generation.



What do *just energy outcomes* in air quality, health, and environment look like?

High-Level Themes on Air Quality, Health, & Environment

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Steering Committee Ideas



Air Quality, Health,

& Environment



Collaboration Across Sectors & Agencies

Crosscollaboration: LADWP can lead transitioning cityowned polluting facilities

Failure to meet federal air quality standards could lead to federal transportation funding loss

Need for partnerships across citywide agencies Health & Environmental Infrastructural Strategies

Need to address pollutants produced by peaker plants

Electrifying transportation will reduce greenhouse gases Health Impact Factors

Power generation pollutes less than transportation

Biggest health danger from transportation

High-Level Themes on Air Quality, Health, & Environment

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Steering Committee Ideas

Highlights

Air Quality, Health,

& Environment



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Steering Committee Ideas

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Air Quality, Health,

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Jobs & Workforce Development

 Clean energy jobs and workforce development refers to access to—and training for—jobs and career pathways in energy efficiency and renewable energy.





Highlights

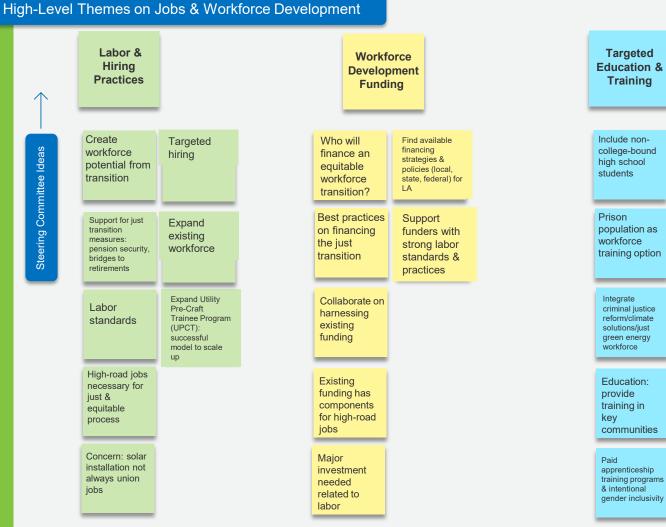
Jobs & Workforce

Development

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Steering Committee Ideas



High-Level Themes on Jobs & Workforce Development

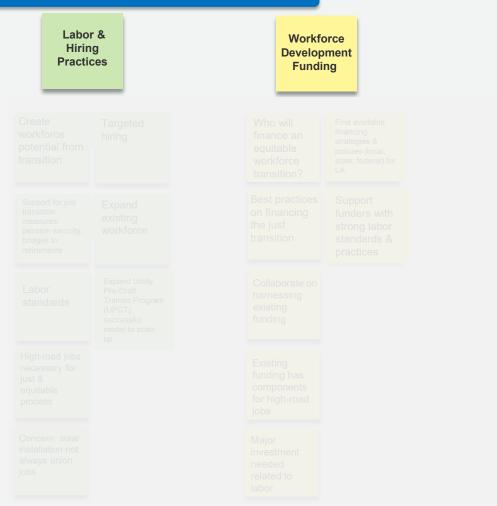
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Steering Committee Ideas

Jobs & Workforce

Development





Targeted Education & Training

Include noncollege-bound high school students

Prison population as workforce training option

Integrate criminal justice reform/climate solutions/just green energy workforce

Education: provide training in key communities

Paid apprenticeship training programs & intentional gender inclusivity

High-Level Themes on Jobs & Workforce Development

Highlights

Jobs & Workforce

Development

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Targeted Education & Training

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workforce

Education: provide training in key communities

Community Meetings

and Listening Sessions



Community Meetings

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Listening Sessions



Citywide community meetings are public events where all Angelenos are encouraged to attend, give input, and participate in LA100 Equity Strategies.



Community-specific listening sessions are a form of focus group, adapted to each local context, aiming to understand the energy priorities and needs of 8–10 participating community members.



Community Meetings

Community Meeting Dates

- Saturday, February 26, 10:00 a.m. 11:30 a.m. PT
 - ✓ (English with Spanish translation)
- Thursday, March 3, 6:30 p.m. 8:00 p.m. PT
 - ✓ (Spanish with English translation)

Steering Committee outreach help needed to ensure broad participation.



LADWP will share invitations and registration links via email.

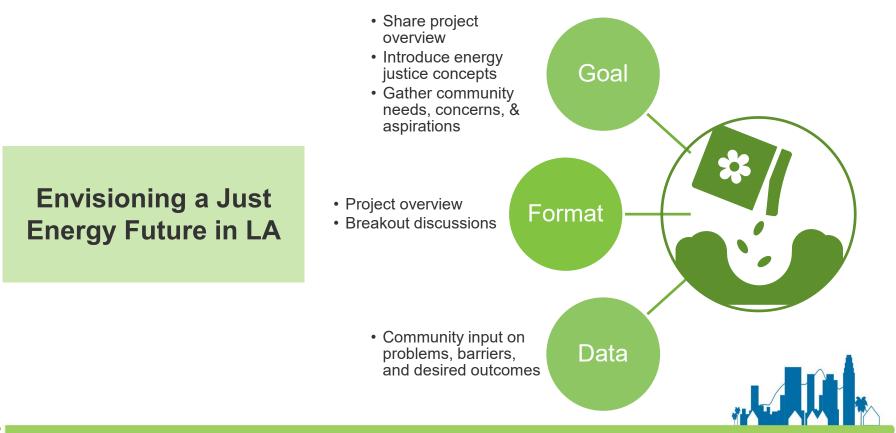


Please share with your communities!

Steering Committee members are welcome to attend and observe these meetings, but we respectfully ask you not to participate.



First Two Community Meetings



Community Meeting Breakout Groups

Breakout groups will discuss three questions related to energy justice. The questions aim to understand:



1. What is your vision for a just energy future?



2. What are barriers to energy justice in your community?

3. What are your desired outcomes from this project?



Listening Sessions

5 Listening Sessions

- Conducted with underserved LA communities
- Will gather ideas on *energy system inequities* and *strategies for achieving a just energy transition*

Proposed approach

- Energy justice community-specific meetings held virtually but focused on neighborhoods including
 - South LA
 - East LA (Eastside)
 - San Fernando Valley
 - Harbor Region/Port Area
 - Southeast LA
- Co-hosted with Steering Committee member organizations
- 8 10 participants
 - Drawn from Steering Committee member organization constituents



Discussion / Q&A

General recommendations? Additional resources to engage the community?

Public Outreach



Outreach Tools and Materials

Tools and materials prepared to help demystify the project and drive community engagement including:

- Website: ladwp.com/LA100ES
- Fact sheet
- Flyer
- Press releases
- Features and articles
- Social media promotional campaigns
- Video (in development) to be shared on YouTube & Vimeo
- Terms and definitions
- Community input questionnaire

All materials will be made available in English & Spanish



Social Media + Newsletter

Sign up for the LADWP Community Newsletter





https://tinyurl.com/ladwpsignup



Follow on social media



Website ladwp.com/LA100ES

LA100 Equity Strategies



Following the release of the groundbreaking Los Angeles 100% Renewable Energy Study (LA100)→, LADWP launched LA100 Equity Strategies to ensure the path to 100% carbon-free energy is equitable as well as achievable. LA100 Equity Strategies, a two-year study in partnership with the National Renewable Energy Laboratory (NREL) and UCLA, brings together L.A.-based community justice organizations and stakeholders in a Steering Committee to guide this unprecedented effort.

Together with our research partners and Committee members, we will conduct extensive community engagement, through Listening Sessions with equitydeserving members of our community, as well as broader outreach through Community Meetings with communities across L.A.

Virtual Community Meetings - Get Involved!

Sat, February 26 @ 10 AM – ENGLISH [Register] Thurs, March 3 @ 6:30 PM – SPANISH (EN ESPANOL) [Register]

Learn More

Press Release: LADWP Launches Groundbreaking LA100 Equity Strategies Initiative Feature Story: Community-Driven Effort to Ensure Equitable Transition to 100% Clean Energy for L.A.

+ Steering Committee

+ Advisory Committee

Research Partners

Outreach Toolkit



Potential Equity Strategy Development Pathways

Steering Committee Feedback and Guidance



As NREL moves toward detailed distributional justice strategy development,

we will rely on Steering Committee feedback and guidance on priorities.



Modeling, Analysis, & Strategy Development

egy lopment	Rate Analysis/ Affordability	Buildings	Solar & Storage	Reliability & Resilience	Transportation	Air Quality, Health, Environment	Jobs & Workforce Development
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LA100 2035 100% Clean Energy Metrics	\$86 Billion to achieve 100% clean electricity by 2035	↓54% residential natural gas consumption ↑27% residential electricity consumption	2,362 MW residential 366 MW commercial rooftop PV 986 MW storage	\$831 Million distribution system upgrade costs	80% electric vehicles	\$1.4 Billion in annual health benefits based on 2 sq km air quality modeling	15,561 in-basin 3,594 out-of-basin clean energy jobs
Community Engagement			- Policy and pro	quity pathways ogram knowled rocedural justi	ge & guidance		
LA100 Equity Strategies Modeling and Analysis	dGen utility bill rate impact analysis for 600,000+ buildings by income, renter/ owner, electricity/ natural gas	ResStock modeling of all residential buildings by income, renter/owner to optimize efficiency and electrification for affordability	dGen modeling of residential, commercial rooftop and community solar optimized for DACs	Distribution grid modeling of upgrades required to support PV, EV adoption, building and transportation electrification and reliability in DACs	Sustainable transportation scenario modeling to optimize benefits for DACs	Neighborhood-level air quality modeling and health-impacts analysis to target benefits to DACs	Job training and readiness and workforce standards analysis
Metrics		Mea	surable, interi	n & final distrik	outional justice	metrics	
Outcomes			Impleme	ntation-ready s	trategies		

Feedback on Potential Equity Strategy Development Pathways

Торіс	Potential Equity Strategy Development Pathways
Rate Reform	 Low-income energy bill stability Rate options for solar affordability
Buildings	 Low-income access to demand flexibility programs Improve access to solar/storage and energy efficiency in multifamily and/or renter-occupied buildings
Local Solar & Storage	Targeted community solar siting
Transportation	 Equitable electric vehicle (EV) access Reduced transportation energy burdens
Reliability & Resilience	 Building weatherization and resilience to extreme events Access to public and community cooling Improve resiliency in disadvantaged neighborhoods through solar plus storage siting Identify grid upgrades needed to support reliability and solar/storage/EVs in disadvantaged communities

The following topics will be covered at a future meeting:

- Air Quality, Health, Environment
- Jobs & Workforce Development
- Policy design for affordability



Rate Reform

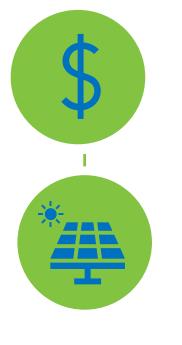


Low-Income Energy Bill Stability

 Design tariffs and billing strategies to achieve 100% clean energy without increasing energy bills for low-income households (renter- and owner-occupied)

Rate Structure Options for Solar Affordability

 Develop more equitable retail rate structure options that will facilitate solar adoption in disadvantaged communities





Buildings

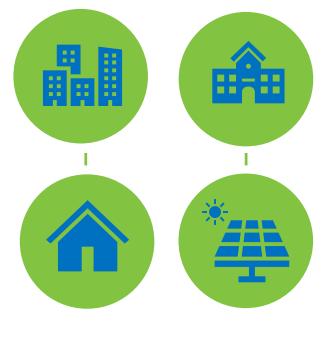


Low-Income Access to Demand Flexibility Programs

 Develop strategies that increase technological readiness of low-income households (renter- and owner-occupied), small businesses, and schools to participate in direct and indirect demand response, solar/storage incentive, and energy efficiency programs to lower bills and/or access payments

Improve Access to Solar/Storage and Energy Efficiency in Multifamily and/or Renter-Occupied Buildings

 Develop optimized implementation strategies by modeling bill savings potential of various approaches based on detailed multifamily building modeling and renter-occupied and low-income efficiency, solar, and storage deployment potential



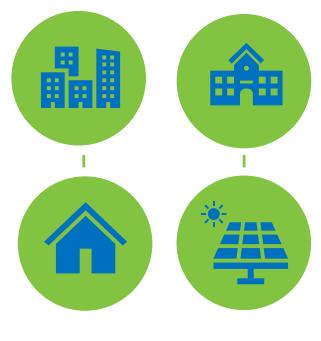


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Local Solar & Storage

Targeted Community Solar Siting

 Assess opportunities and financing strategies to site local solar/community solar in disadvantaged communities to supply local clean and affordable energy to these communities



Thoughts?



Transportation

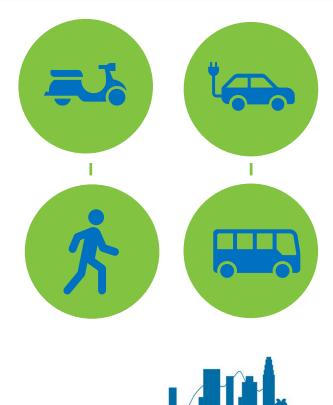
Thoughts?

Equitable Electric Vehicle (EV) & Charging Access

- Identify strategies to accelerate light duty EV and EV charging infrastructure access across communities to equitably achieve high EV adoption rates through:
 - Increased EV ownership
 - Increased access to shared EV (car sharing, electric buses, ride-hailing services) usage
 - Siting or incentivizing of EV charging In disadvantaged communities

Reduced Transportation Energy Burdens

• Identify transportation electrification strategies that can increase access to mobility opportunities (electric care share, taxis, ride-hail fleets, scooters, bikes, or walking) and reduce transportation burdens (i.e., costs, pollution, traffic, etc.)



Reliability & Resilience

Thoughts?

Building Weatherization, Thermal Storage, and Resilience to Extreme Events

 Increase building weatherization to reduce morbidity and mortality during extreme heat events in low-income households

Access to Public and Community Cooling

 Improve non- residential community access to public or commercial heating and cooling spaces for vulnerable households



Reliability & Resilience

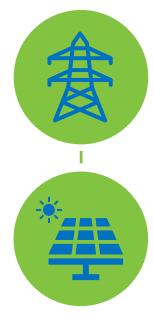


Increase Resiliency in Disadvantaged Neighborhoods through Targeted Solar-plus-storage Siting

 Increase hours/days of electricity service in an outage situation through targeted solar and storage for distribution grid resilience in disadvantaged communities

Identify Grid Upgrades Needed to Support Reliability and Solar/Storage/EVs in Disadvantaged Communities

- Identify infrastructure upgrades needed in disadvantaged communities to:
 - Ensure electricity reliability
 - Support community solar, rooftop solar, storage, EV adoption
- Assess potential deferral of distribution upgrade costs due to behind the meter and community scale solar and storage





Discussion / Q&A

Wrap Up and Next Steps



Going Forward

Steering Committee Meetings

March 23, 2022 Virtual

• Refining a plan for modeling and analysis for strategy development

April 20, 2022 Virtual

- · Summary of what we heard at community meetings
- Feedback on draft modeling, analysis, and strategy development plan

Subsequent Meetings

- Last Wednesday of each month, 10:00 a.m. 12:00 p.m. PT
- Virtual for near-term



What would you like to discuss in upcoming meetings? Drop your agenda suggestions in the chat!



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