



**2022 Power Strategic Long-Term
Resource Plan (SLTRP)
Roadmap to 100% Carbon Free by 2035**

**SLTRP Advisory Group Meeting #11
NREL Air Quality and Health Impacts, LA100 Equity Strategies Update, Wrap Up
September 22, 2022**

Meeting Agenda

Joan Isaacson, Kearns & West

- Welcome & Introductions
- Meeting Purpose and Agenda Overview
- SLTRP Process Update and Public Outreach Feedback
- NREL Air Quality and Health Impacts Study for SLTRP (Initial Results)
- LA100 Equity Strategies Update
- Closing Remarks
- Wrap Up

Website: www.ladwp.com/SLTRP

Email: powerSLTRP@ladwp.com

Guides for Productive Virtual Meetings



Use Chat for input OR Raise Hand to join the conversation

Help to make sure everyone gets equal time to give input

Keep input concise so others have time to participate

Actively listen to others, seek to understand perspectives

Offer ideas to address questions and concerns raised by others

Advisory Group Role in 2022 SLTRP

The Advisory Group will provide input and feedback based on their expertise, knowledge, and resources of the organizations, institutions, and constituent groups represented by Advisory Group members.

Advisory Group Meeting Plan

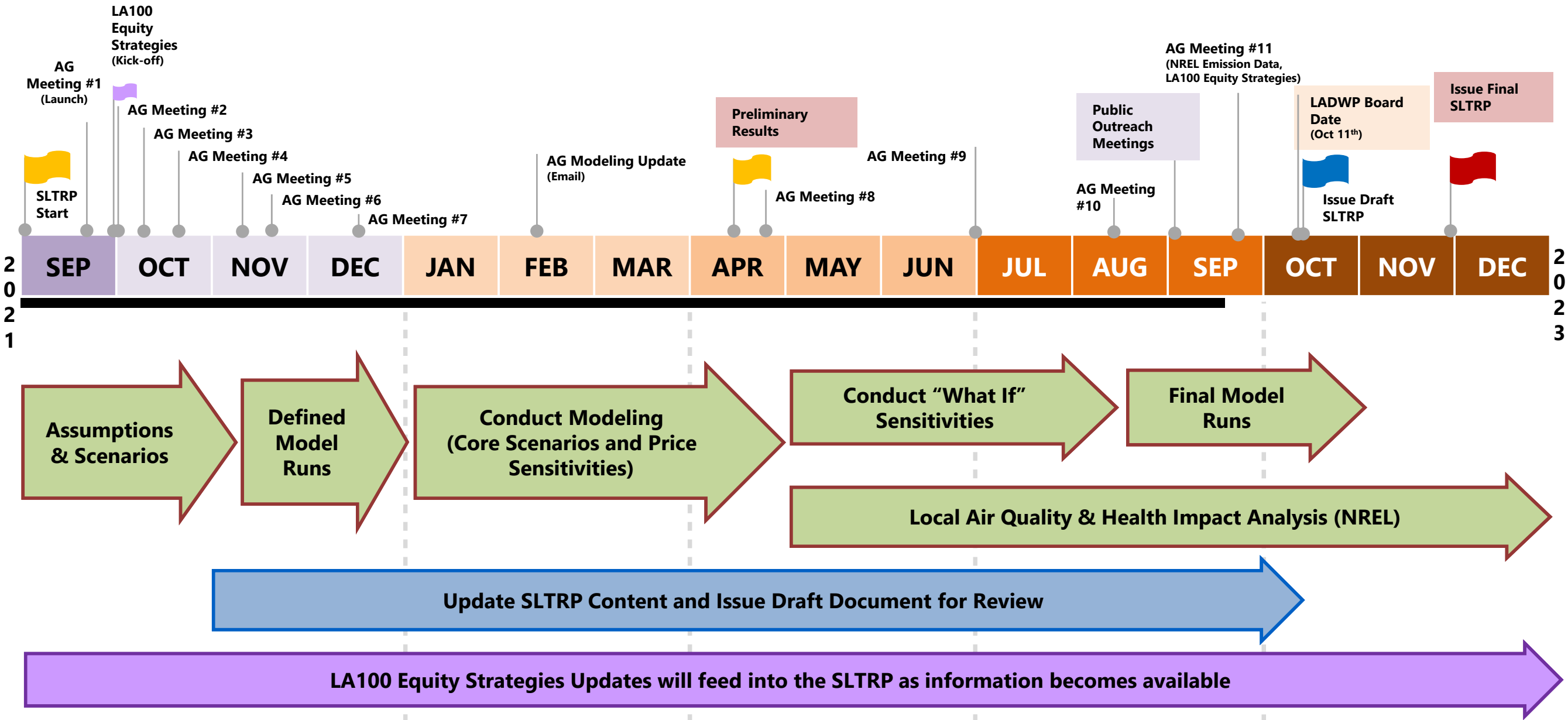
Phase 1 Q3 2021 Launch & Laying Foundation	Phase 2 Q3 2021 Scenario Development	Phase 3 Q4 2021 Modeling	Phase 4 Q1-2 2022 Results	Phase 5 Q2-3 2022 Outreach
<p>#1 September 23</p> <ul style="list-style-type: none"> Advisory Group Launch LADWP Overview LA100 (Achieving 100% Renewable Energy) 2022 SLTRP Orientation Advisory Group Protocols & Operating Principles 	<p>#4 October 22</p> <ul style="list-style-type: none"> Customer Focused Programs <ul style="list-style-type: none"> Energy Efficiency & Building - Electrification Transportation Electrification Demand Response Draft Scenario Matrix 	<p>#7 December 17</p> <ul style="list-style-type: none"> LA100 Equity Strategies Overview Energy Storage Presentation 2022 SLTRP What-If Sensitivities Discussion Final Scenario Matrix 	<p>February <i>(Email Update)</i></p> <ul style="list-style-type: none"> Modeling Progress Check-in, Upcoming Board Meetings 	<p>#9 June 30</p> <ul style="list-style-type: none"> Preliminary Results on Reliability, resiliency, and Sensitivities
<p>#2 September 30</p> <ul style="list-style-type: none"> <i>LA100 Study Review (NREL) at 9 am</i> LA100 Rates Analysis (OPA) at 10 am LA100 Next Steps (LADWP) LA100 Assumptions (PSRP) Consider Topics for October 22 Consideration of Scenario Definition 	<p>#5 November 10</p> <ul style="list-style-type: none"> LA100 “No Combustion” Scenario 2022 SLTRP Assumptions Metrics & Evaluation Process Scenario Considerations Refine Scenario Matrix 	<p>November – May</p> <ul style="list-style-type: none"> Internal Modeling Analysis of Scenarios 	<p>#8 April 28</p> <ul style="list-style-type: none"> Preliminary Results on Core Scenarios (Capacity Expansion, LOLP and Production Cost Model) 	<p>#10 August 12</p> <p>Final Sensitivities SLTRP Key Findings</p> <p>August</p> <ul style="list-style-type: none"> Community Outreach Meetings Review Draft 2022 SLTRP
<p>#3 October 08</p> <ul style="list-style-type: none"> SLTRP Deep Dive SB100 Review (LADWP) 100% Carbon-Free by 2035 Requirements (NREL) Green Hydrogen in LA (LADWP) 2022 SLTRP Key Considerations and Potential Scenarios 	<p>#6 November 19</p> <ul style="list-style-type: none"> Distribution Automation 2022 SLTRP Advisory Group Feedback and Refined Draft Scenario Matrix 2022 SLTRP What-If Sensitivities Discussion 	<p>Modeling Underway</p>	<p>TBD</p> <p>Potential field trip</p>	<p>#11 September 22</p> <p>Public Outreach Results NREL Air Quality Modeling LA100 Equity Strategies</p> <p>October 11 Board Date</p>

SLTRP Process Update and Public Outreach Feedback

Jay Lim, LADWP Manager of Resource Planning

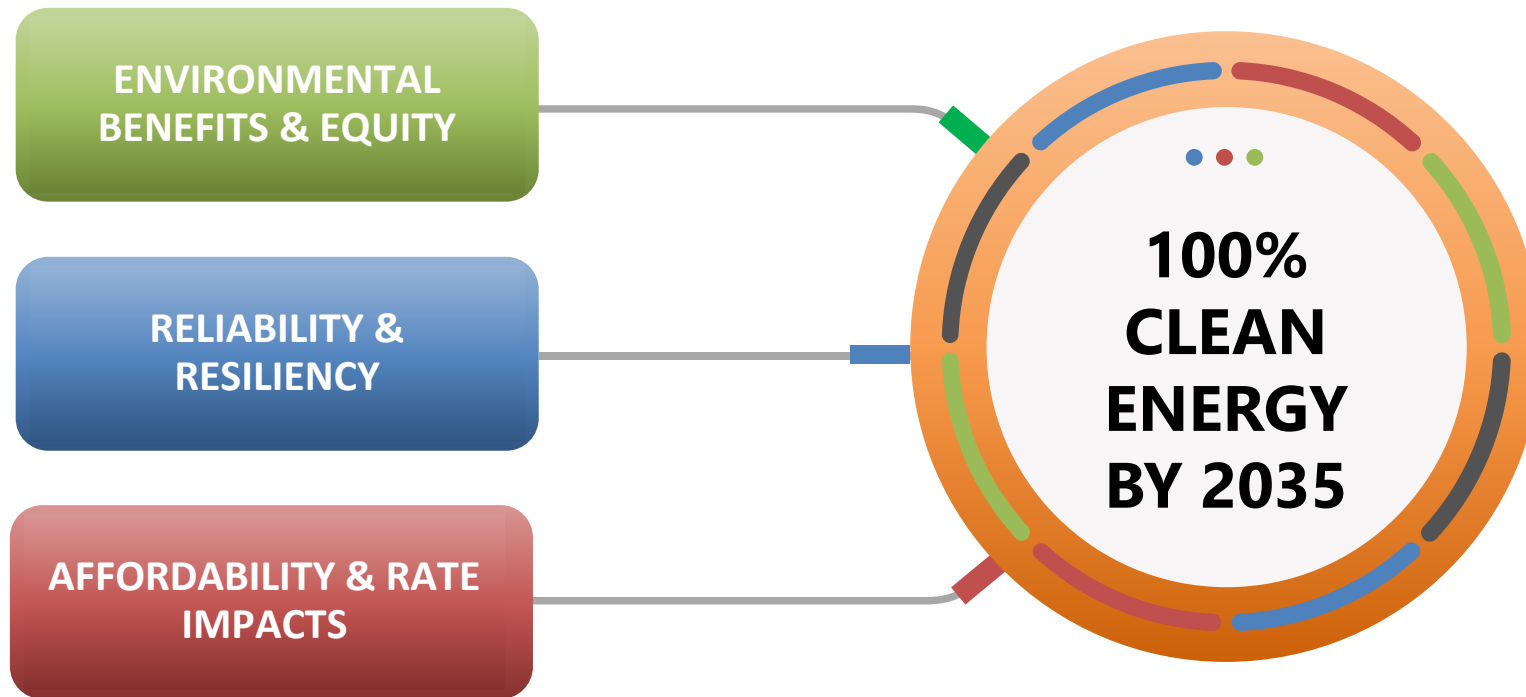


SLTRP TIMELINE



GUIDING PRINCIPLES

THE SLTRP IS A **ROADMAP** TO MEET OUR FUTURE ENERGY NEEDS



OUTCOME:
DEVELOP A RECOMMENDED SCENARIO THAT
GUIDES OUR NEAR-TERM ACTIONS AND FUTURE ENERGY PLANNING



Community Meetings

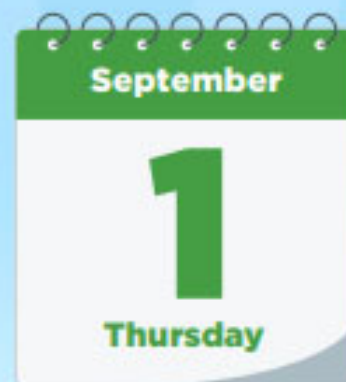
Our Clean Energy Future Is Now



Join us for virtual community meetings to learn more about the paths under consideration for reaching 100% carbon-free energy for L.A. and provide input on the 2022 Power Strategic Long-Term Resource Plan.



6 p.m. - 7:30 p.m.



6 p.m. - 7:30 p.m.



6 p.m. - 7:30 p.m.

English-Spanish simultaneous interpretation available for all meetings.

PUBLIC OUTREACH FEEDBACK

WE CONTINUED BUILDING COMMUNICATION PATHWAYS

● ● ● RATES AND ENERGY BURDEN

The price of power is the **most common** feedback topic.

LADWP will need to continue being **transparent** of costs and rate drivers.

A **holistic** and **equitable** approach will be needed to fully communicate the impacts of transitioning to 100% carbon free when accounting for energy costs, energy burden, incentives/rebates, and potential savings from clean energy technologies.

LADWP has been tasked with determining the optimal clean energy pathway with **minimal adverse impacts** on ratepayers.

Our current rate estimates are derived from **today's** financial **capabilities**, technologies, and required resources.



● ● ● HYDROGEN & EMISSIONS

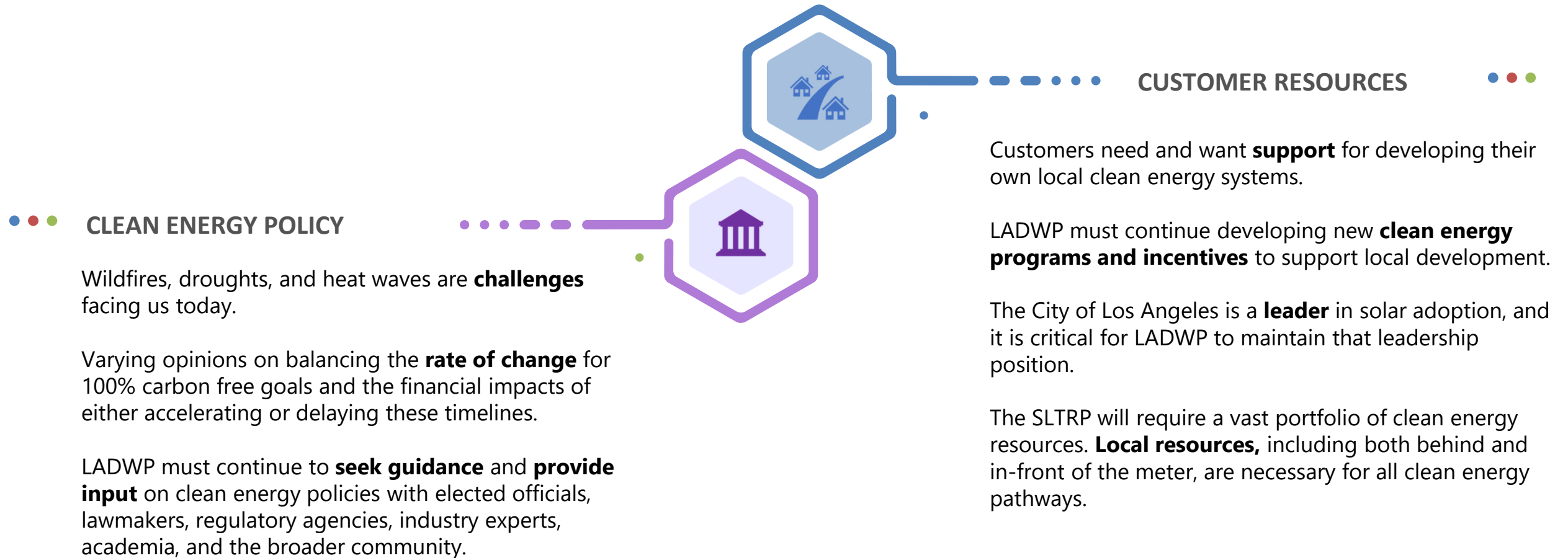
Local air quality and community impacts are a **major concern** for Angelenos.

LADWP will need to continue analyzing how hydrogen resources will **impact local communities** during normal and critical operations.

It is important to **synergize** with other economic sectors to lower emissions and catalyze the clean energy transition – especially for transportation and industrial sectors.

PUBLIC OUTREACH FEEDBACK

WE CONTINUED BUILDING COMMUNICATION PATHWAYS



Communications & Public Affairs


- Website: ***ladwp.com/SLTRP***
- Email address: ***powerSLTRP@ladwp.com***

LADWP > About Us > Power > Strategic Long-Term Resource Plan

Power

- Past & Present
- Facts & Figures
- Power Content Label
- Clean Energy Future
- Strategic Long-Term Resource Plan**
- Documents
- FAQs
- Power Reliability
- Wildfire Mitigation Plan
- Power Quality
- Renewable Energy
- Projects
- Energy Efficiency & Rebates
- Electric Safety
- Advanced Metering Infrastructure
- Rates

Strategic Long-Term Resource Plan



L.A.'s energy future is guided by the Power Strategic Long-Term Resource Plan (SLTRP), a roadmap for providing reliable and sustainable electricity to our customers with a 25-year planning horizon, while also transitioning to a 100% carbon-free power supply by 2035. The SLTRP is updated periodically and incorporates community input through robust outreach and engagement.

Overview

Developing a robust and actionable power plan is essential for LADWP to achieve a clean energy future for Los Angeles. The Power Integrated Resource Plan (IRP) was expanded into the SLTRP, which has a 25-year horizon that aligns with state goals for greenhouse gas (GHG) emissions reductions. LADWP continues to produce an IRP that is submitted to the California Energy Commission every five years.

Following the results of the [LA100 study](#) →, the City Council established an accelerated goal for all of the city's electricity to come from zero-carbon energy by 2035. [City Council Motion](#) and a [Hiring Plan City Council Motion](#).

Stakeholder Engagement and Outreach

Through rigorous analysis and community outreach efforts, the SLTRP evaluates various strategies in light of these objectives to help identify the optimal resource combination to meet the utility's core mission of providing low cost, reliable, resilient, equitable, and clean electric power service to the 4 million residents of Los Angeles and its businesses. The SLTRP will be developed with robust stakeholder engagement through an L.A.-based Advisory Group.

+ Advisory Group

- AG Meetings and Presentations

Advisory Group Meeting #10 (August 12, 2022)

- [SLTRP Presentation Meeting #10](#)

Advisory Group Meeting #9 (June 30, 2022)

- [SLTRP Agenda Meeting #9](#)
- [SLTRP Presentation Meeting #9](#)

Advisory Group Meeting #8 (April 28, 2022)

- [SLTRP Meeting Summary AG #8](#)
- [SLTRP Agenda Meeting #8](#)
- [SLTRP Presentation Meeting #8](#)

LA100 Equity Strategies Update

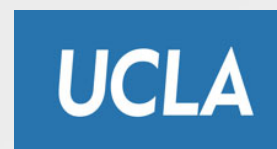
Denis Obiang and Iris Castillo, LADWP Manager of Transmission Planning





LA100 EQUITY STRATEGIES

SLTRP Advisory Meeting September 22, 2022





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

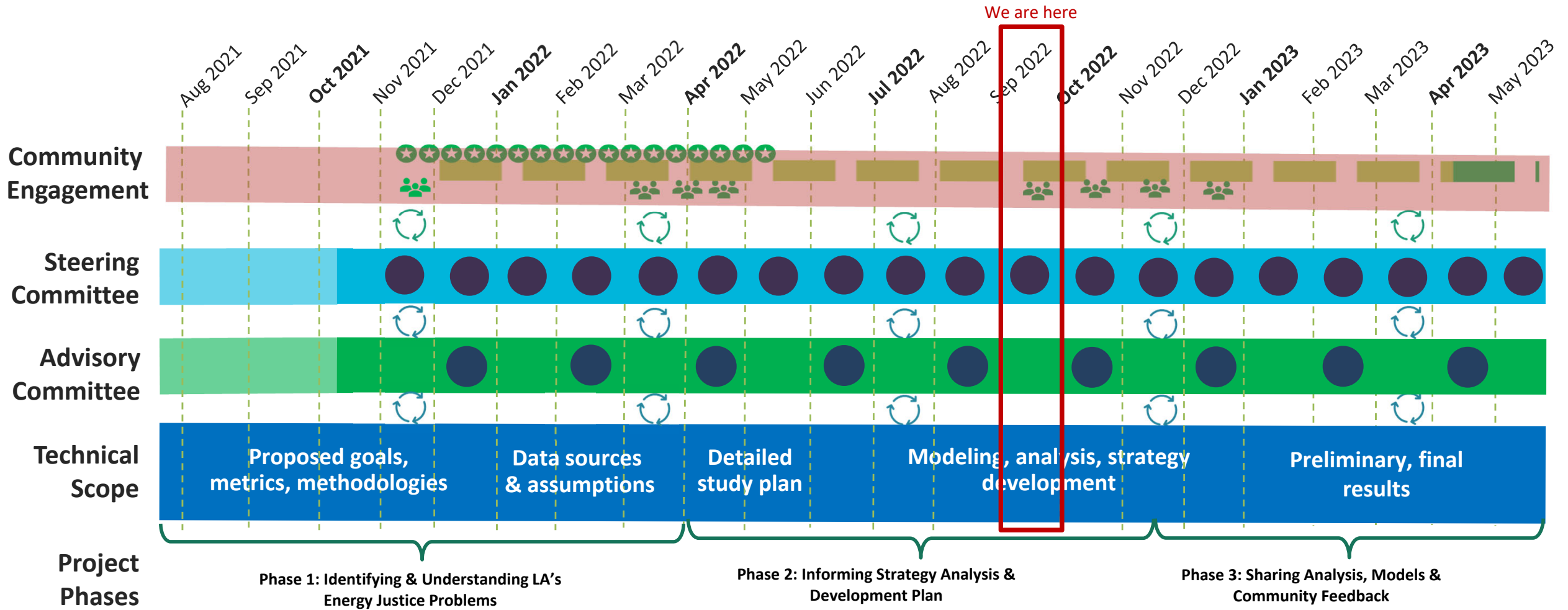
How can Los Angeles ensure its transition to 100% clean energy with high levels of electrification **improves energy justice?**

An aerial photograph of a city, likely Phoenix, Arizona, showing a dense urban area with a mix of residential and commercial buildings. 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 cast across the city.

All communities will **share in the benefits and burdens** of the clean energy transition.

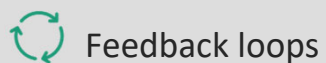
Improving equity in participation and outcomes would require intentionally designed policies and programs.

LA100 EQUITY STRATEGIES: TIMELINE & FRAMEWORK



Legend

Key connections



Engagement

- Community Engagement
- Steering Committee
- Advisory Committee

Digital Engagement Phases

- LA100 ES Digital Engagement
- Post-LA100 ES Engagement

Meetings

- Steering Committee
- Advisory Committee

Interviews

- One on One
- Listening Sessions



Energy Justice

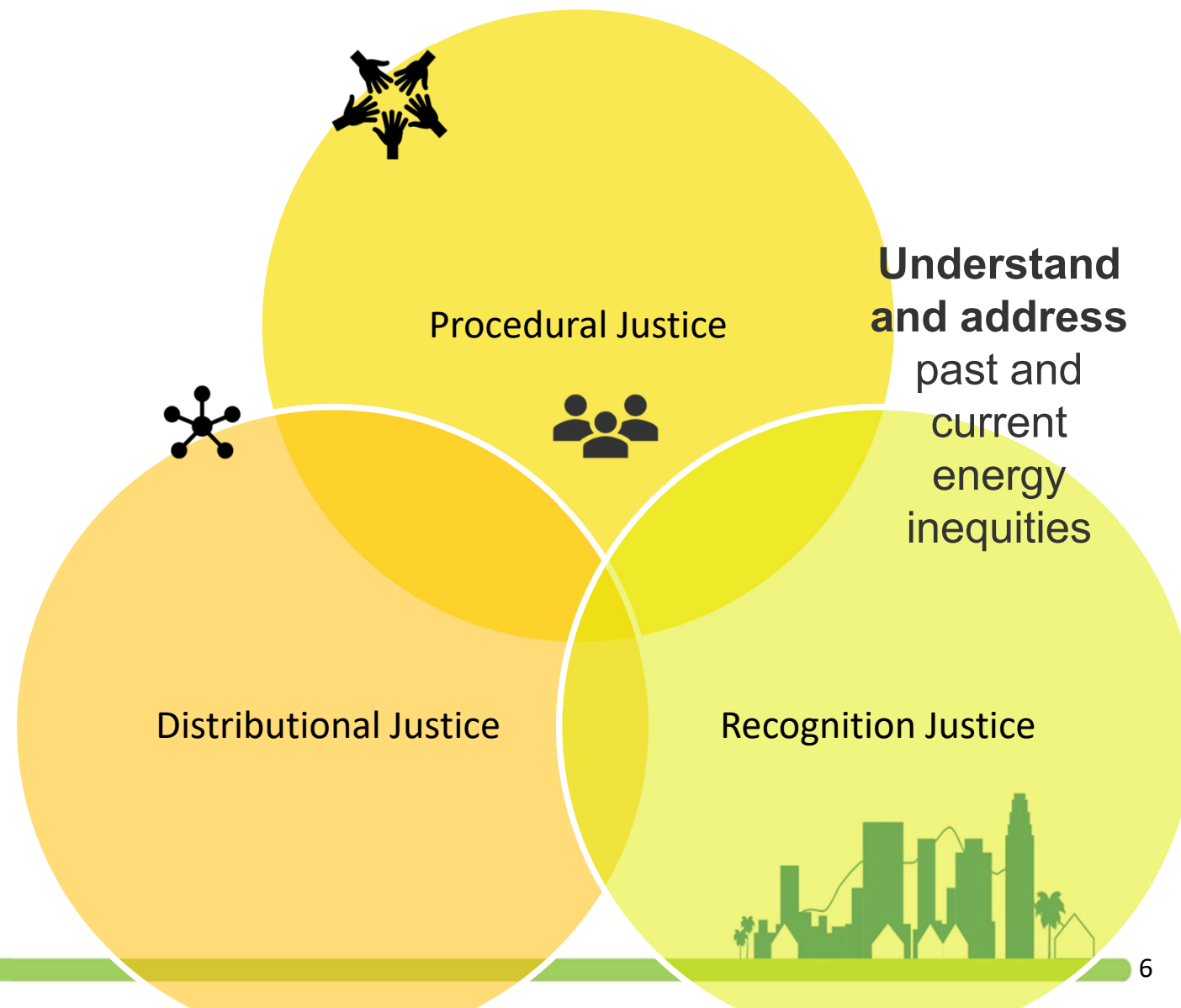
Refers to the goal of achieving equity in both the **social** and **economic** participation in the energy system, while also **remediating** social, economic, and health **burdens** on those historically harmed by the energy system (“frontline communities”)

(Initiative for Energy Justice)

Tenets of Energy Justice

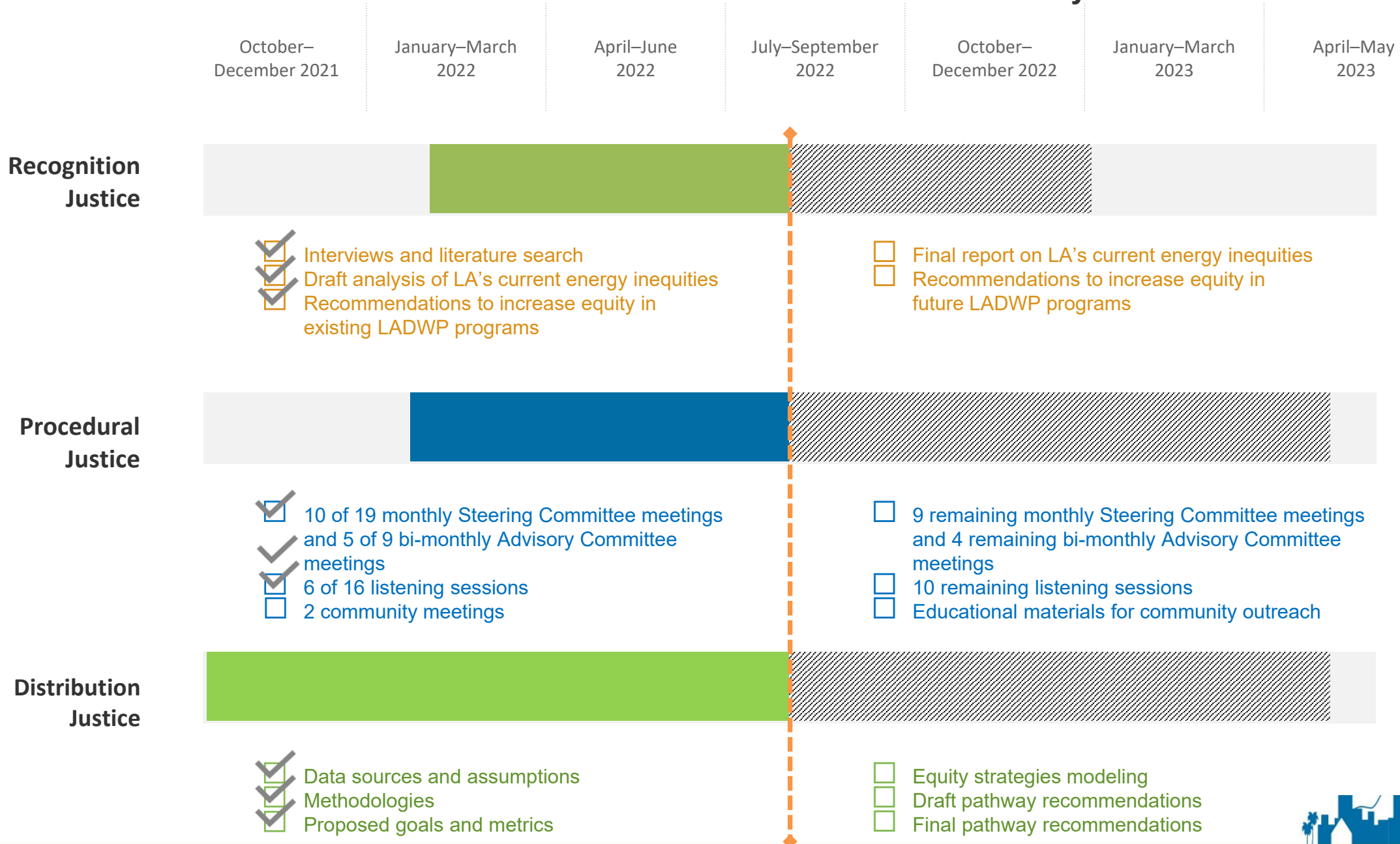
Ensure **just and equitable distribution** of benefits and negative impacts of clean energy transition

Enable **community leadership** in the process



LA100 Equity Strategies Progress Dashboard

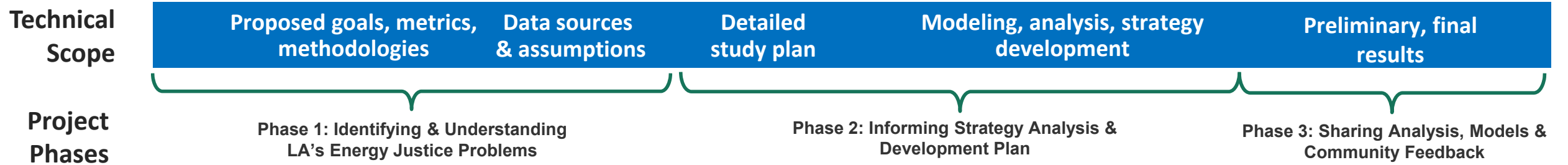
What Has Been Done and Where Are We Today?



LA100 Equity Strategies: Where Are We Going?

Developing Energy Justice Strategies

LA100 Equity Strategies will co-develop practical, implementation-ready strategies intended to increase energy equity outcomes on LA's road to 100% clean energy.



Community Priorities



Affordability & Burdens



Access & Use



Health, Safety, & Resilience



Jobs

Strategy Development Pathways

- Energy bill stability
- Energy burdens
- Universal home cooling
- Solar, storage, energy efficiency (multifamily, renter-occupied buildings)
- Community solar
- Light-duty electric vehicles & charging
- Mitigation of heavier-duty vehicle health impacts
- Building weatherization and resilience
- Resilience through solar-plus-storage siting
- Support electric reliability through distribution grid upgrades
- Clean energy jobs and workforce development

Topics

- Rates and affordability
- Buildings
- Local solar & storage
- Transportation
- Reliability and resilience
- Air quality and health
- Jobs and workforce development



LA100

ACHIEVING 100% RENEWABLE ENERGY IN LOS ANGELES



LA100 Study

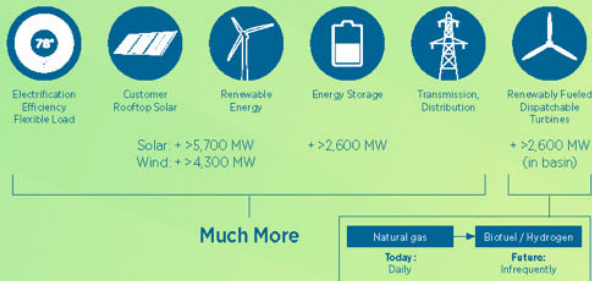
Completed

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

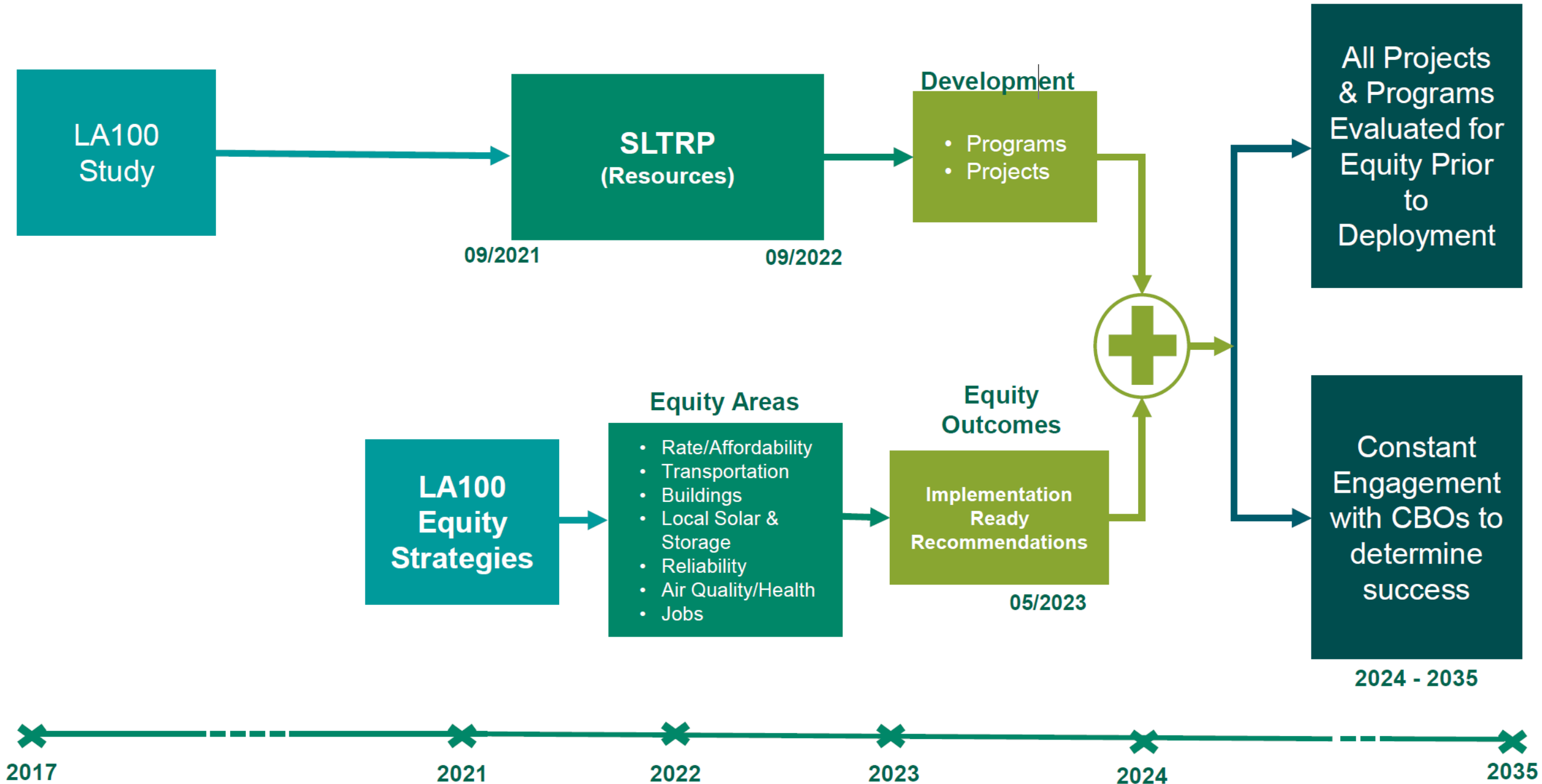
Recommends path forward to achieve our goals

- 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

Next Steps



Thank you!

Discussion and Q&A



SLTRP Air Quality and Health Impacts (Initial Results)

Garvin Heath, National Renewable Energy Laboratory





Analysis of LADWP Power Plants Emissions Under SLTRP Cases: Methods and Preliminary Results

September 22, 2022
SLTRP Advisory Group

Garvin Heath, PhD
Distinguished Member of the Research Staff
National Renewable Energy Laboratory

Goals



Evaluate SLTRP cases' effect on emissions, air quality (concentration), health, and equity.



Place LADWP facility's emissions in context to other sources in Los Angeles

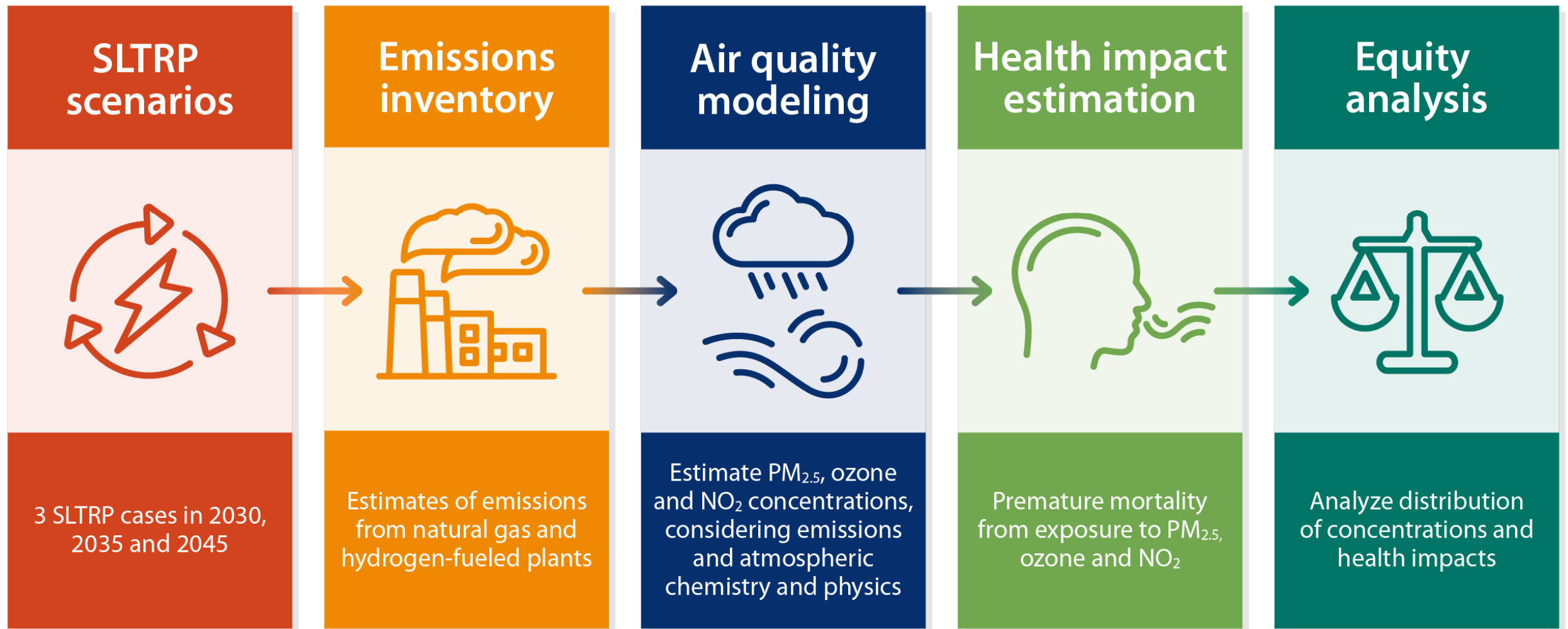


Define a baseline for comparison to future cases



Evaluate emissions at hourly timescales, accounting for time-varying emissions.

How to estimate air quality and health effects



NREL's Scope and Timing

Phase 1 – Air emissions and air quality (concentrations)

Topic	Tentative Due Date	Description
Air emissions	October	<ol style="list-style-type: none">1. Power sector compared to other sectors2. SLTRP compared to baseline years
Air quality	November	PM _{2.5} , ozone and NO ₂ concentration

Phase 2 – Health and equity

Health	December/January	Mortality and morbidity effects relevant to pollutants analyzed
Equity	January	Distribution of concentration and health effects (DAC/non-DAC)
All topics	March	Final report

Work in Progress

- NREL accelerated to meet this year's SLTRP
- The analysis is still in progress, and thus results are preliminary
- Will continue to QA/QC these results
- Results can change until included in SLTRP final report

NREL's LA100 Equity Strategies Team



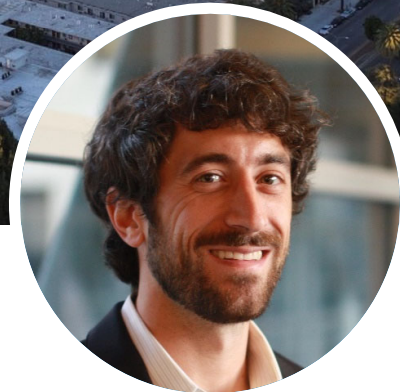
Dr. Garvin Heath

Sustainability analyst
and air quality
modeler



Dr. Vikram Ravi

Air quality, public
health, and
environmental
justice analyst



Dr. Brian Sergi

Grid and air quality
modeler



Qian Luo

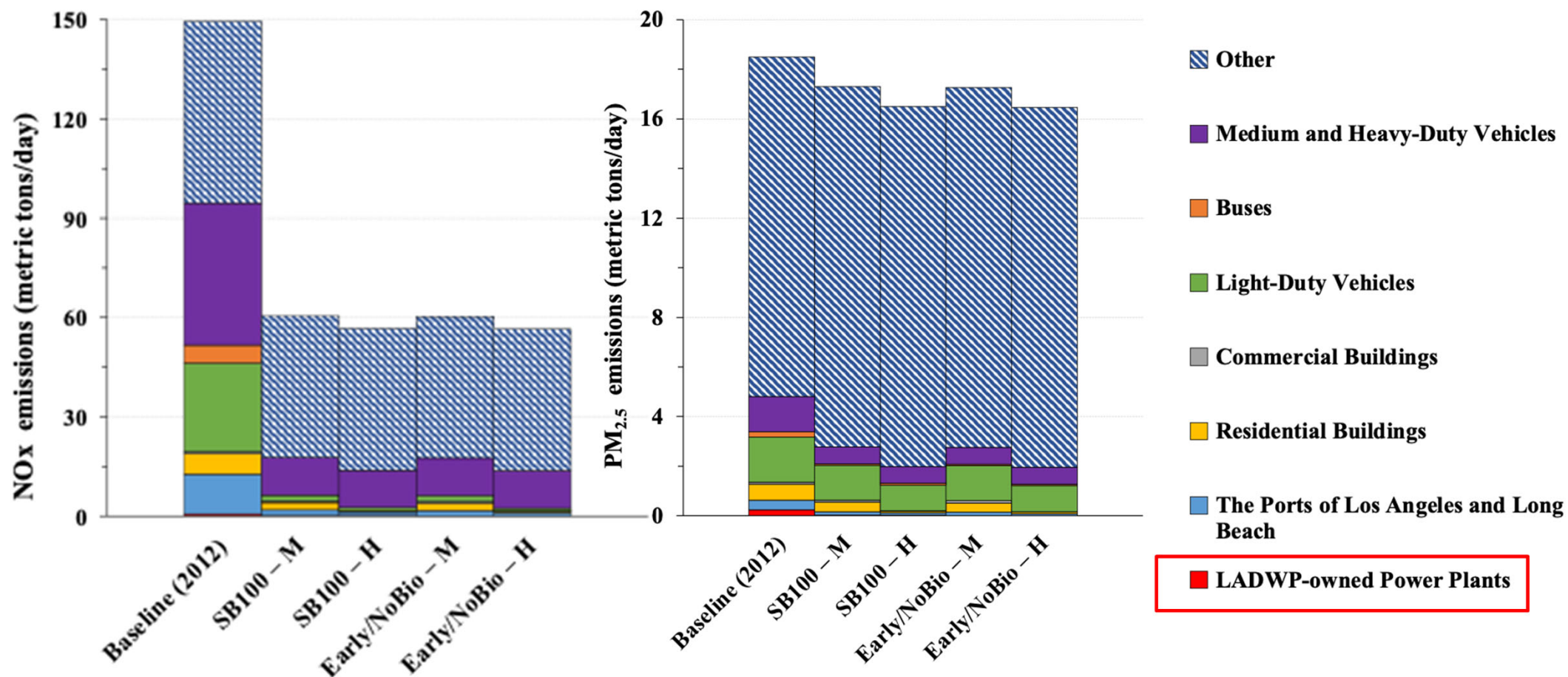
Late-stage Ph.D.
student and air
quality modeler



Plus, lots of support from LADWP!

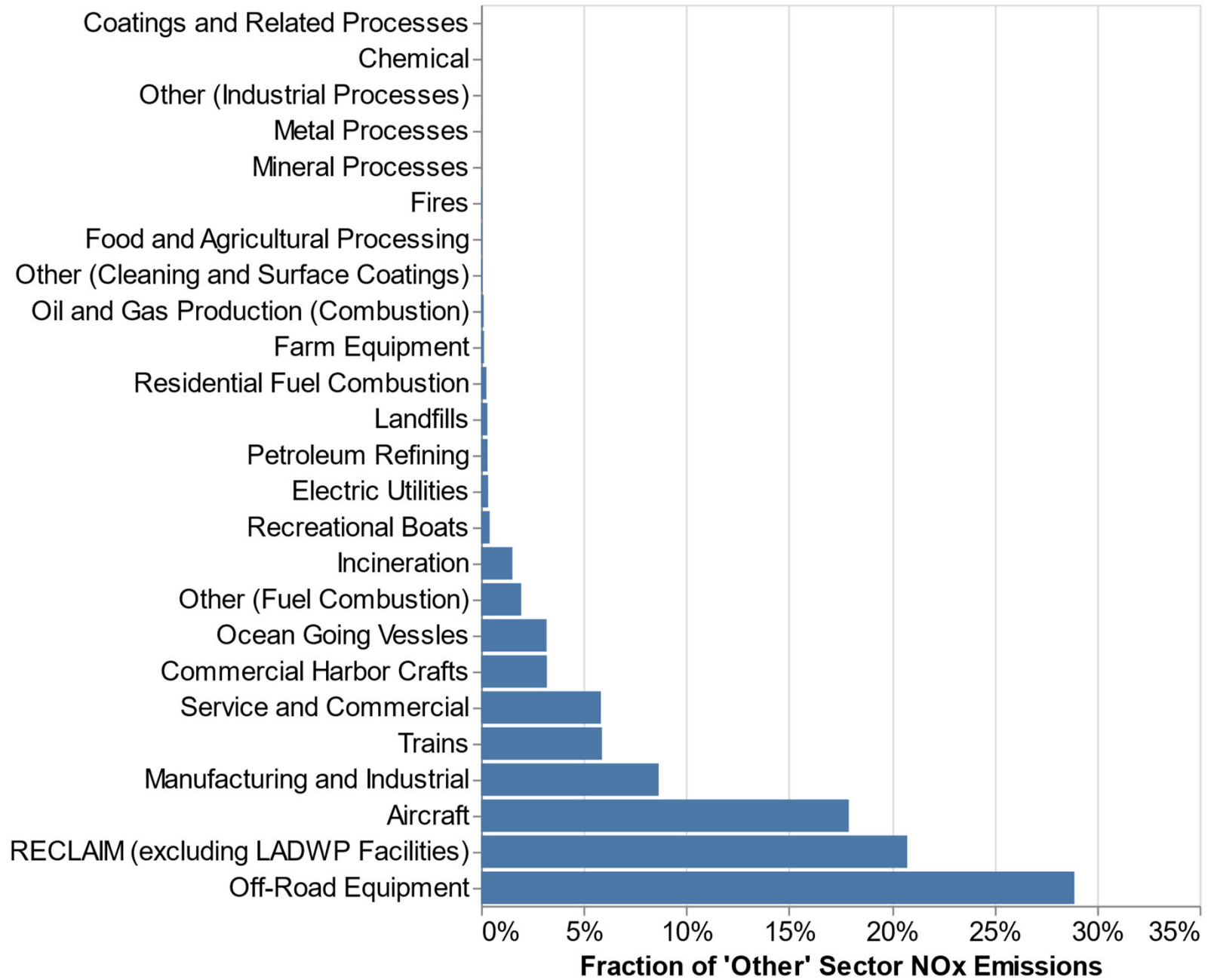
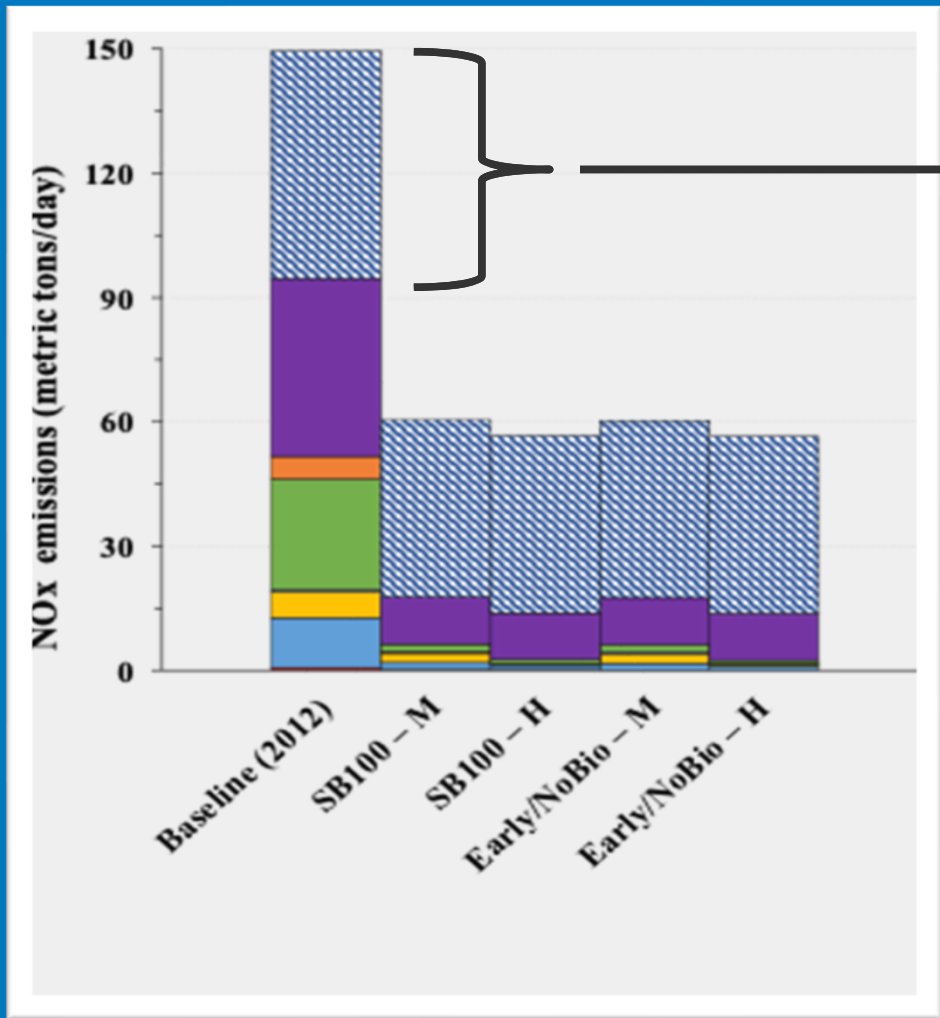
Level set: Power sector emissions in context – LA100 results

Emissions from LADWP facilities compared to other sectors are very small (<<1%) and are included even when not visible



Annually-averaged daily (a) NO_x and (b) PM_{2.5} emissions from all anthropogenic sources in the City of Los Angeles for LA100 scenarios in 2045

What are the major sources within 'other' sectors?

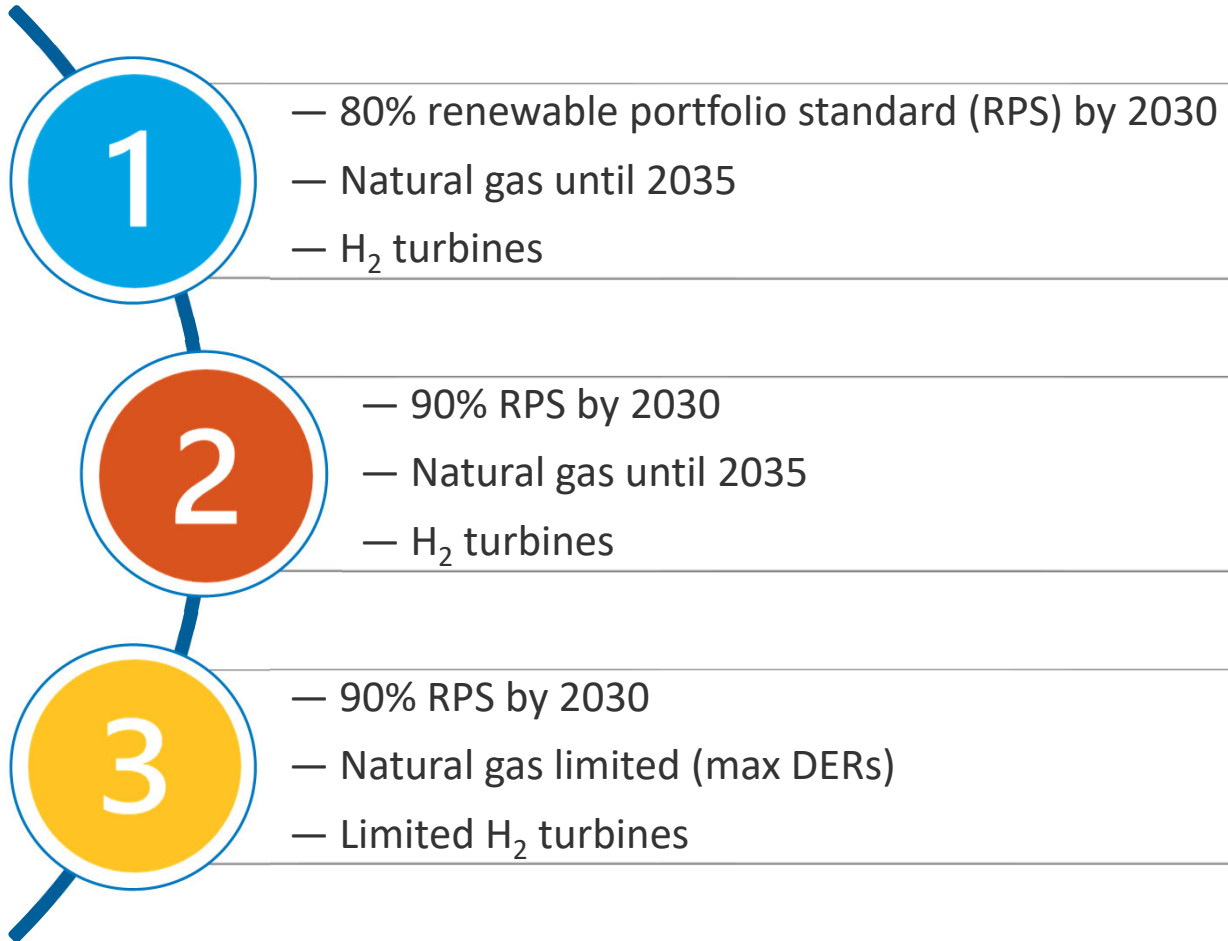


25 of the largest contributing sources are shown

Why analyze air quality in SLTRP? *NOx*

- **LA100 study found that across all scenarios, there was a need for in-basin firm, dispatchable capacity**
 - Frontline communities surrounding LADWP facilities, and other concerned stakeholders, want to know about potential air quality and health effects
- **Hydrogen combustion is cleaner than natural gas**
 - **Green H₂ is carbon free**; it's use displaces emission from natural gas and can be **part of a pathway to 100% clean energy by 2035**
 - Since H₂ has no carbon, there are **no PM, CO, VOC or air toxic emissions**
 - There can be some ammonia emissions as slip from selective catalytic reduction control technology (as occurs from any SCR system, including on gas turbines)
- **Yet H₂ combustion still emits nitrogen oxides (NO_x)**
 - NO_x emissions from H₂ combustion comes from nitrogen in the air, catalyzed by flame temperature
- **Hydrogen combustion can have higher flame temperatures**
 - But especially as used in the South Coast Air Basin, LADWP, turbine vendors and South Coast Air Quality Management District (SCAQMD) are collaborating to **ensure flame temperature is controlled, emissions control technologies can still be used and current/future NO_x emissions regulations can be met**
 - We have vetted this extensively with numerous experts, e.g., see [Pollutant Emissions Reporting and Performance Considerations for Hydrogen–Hydrocarbon Fuels in Gas Turbines](#), *J. Eng. Gas Turbines Power* (2022)

SLTRP Cases



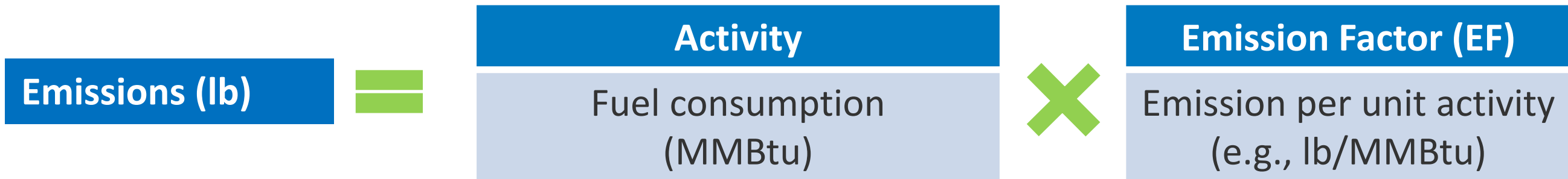
- All 3 cases achieve 100% Carbon Free Energy by 2035
- Examining **2030**, **2035**, and **2045**
- Green hydrogen starting use in 2029
 - 30% blending (by volume)
- 100% green hydrogen starting 2035
- Green hydrogen means there are *no upstream air pollutant emissions from hydrogen production* to account for

Methods

Photo from NREL

Emission calculation approach

Looks simple, actually very detailed



- Emissions can change when either activity or EF changes
 - Often, emission estimates are developed on an annual basis, assuming an average, constant EF
 - This approach would not support accurate modeling of hourly-varying pollutant concentration
- Fuel consumption relates to the generator's heat rate (efficiency), which can change in different operating modes
 - Note that fuel consumption is directly related to generation (MWh)
- EFs are also not constant throughout the year; they also differ by operating mode

Activity: Annual total generation

The most important factor modulating emissions

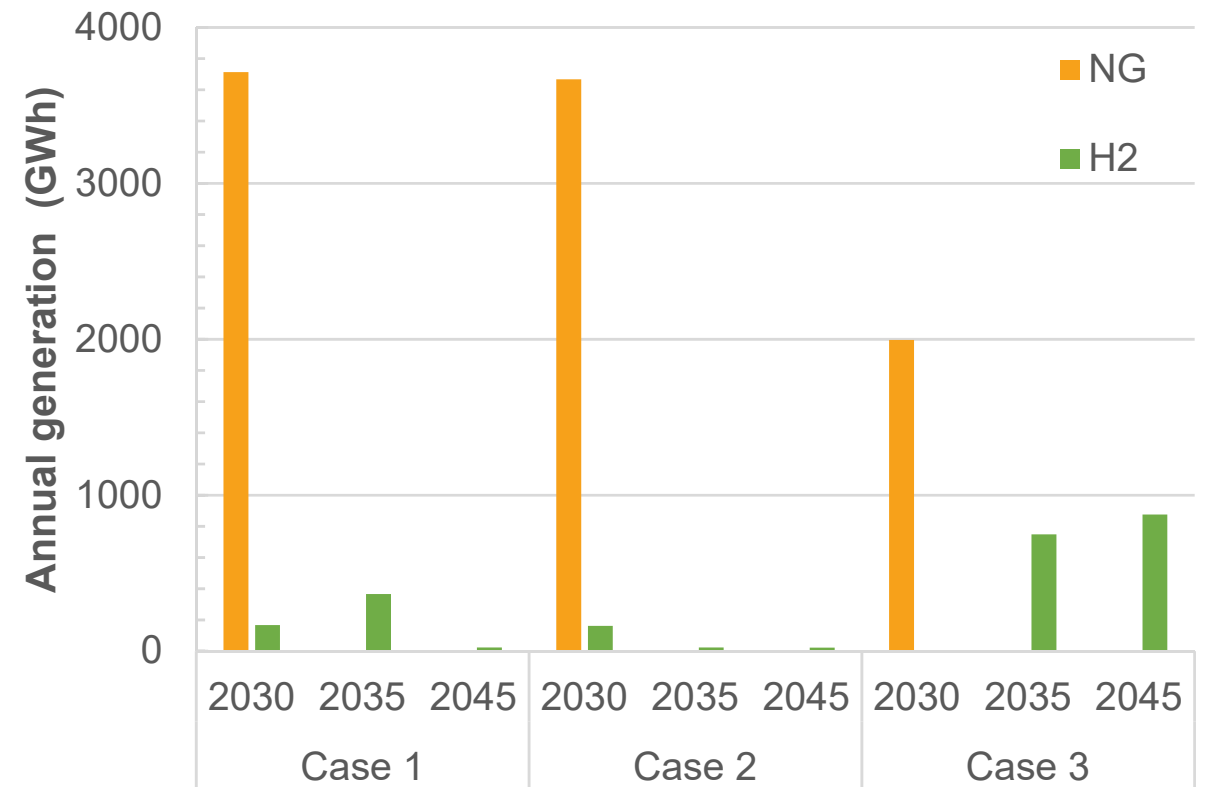
Generation by in-basin combustion units
 Historical LADWP gross load: ~24,000 GWh

**PRELIMINARY
RESULTS**

By case

GWh	2030	2035	2045
Case 1	3,881	366	24
Case 2	3,830	23	22
Case 3	1,996	749	876

By fuel

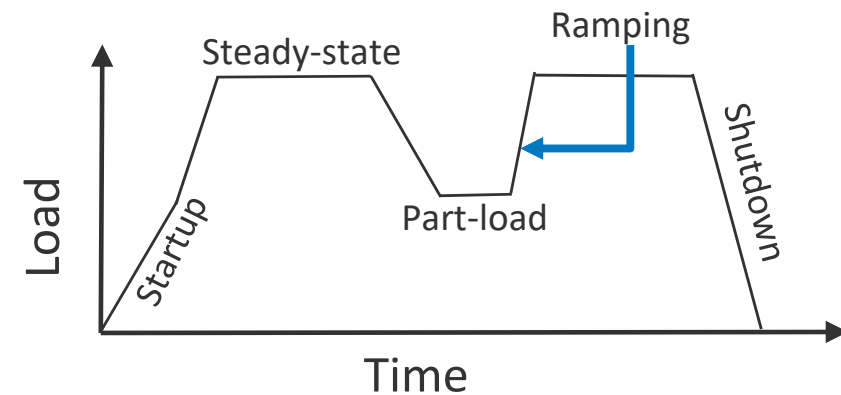


SLTRP created multiple weather-based simulations.

We are analyzing the case representing median annual generation for emissions.

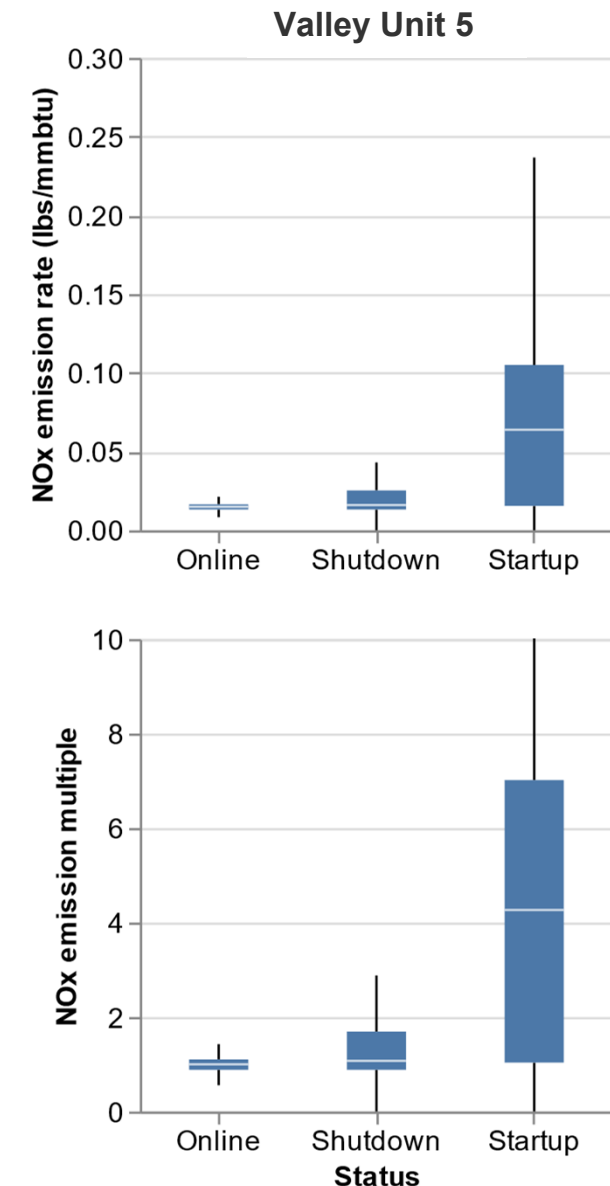
Operating modes

- Plants operating in steady state at full load perform best in terms of emissions
 - e.g., control technologies are operating with maximum effectiveness
- There are a few classic non-steady state conditions:
 - Startup
 - Shutdown
 - Ramping
 - Part-load (even if steady)
- These non-steady state conditions are also associated with reduced efficiency (heat rate)
 - We account for this change in estimating emission factors
- To estimate startup and shutdown emissions, we need to estimate the **emission factor and activity (count of these events and their duration)**



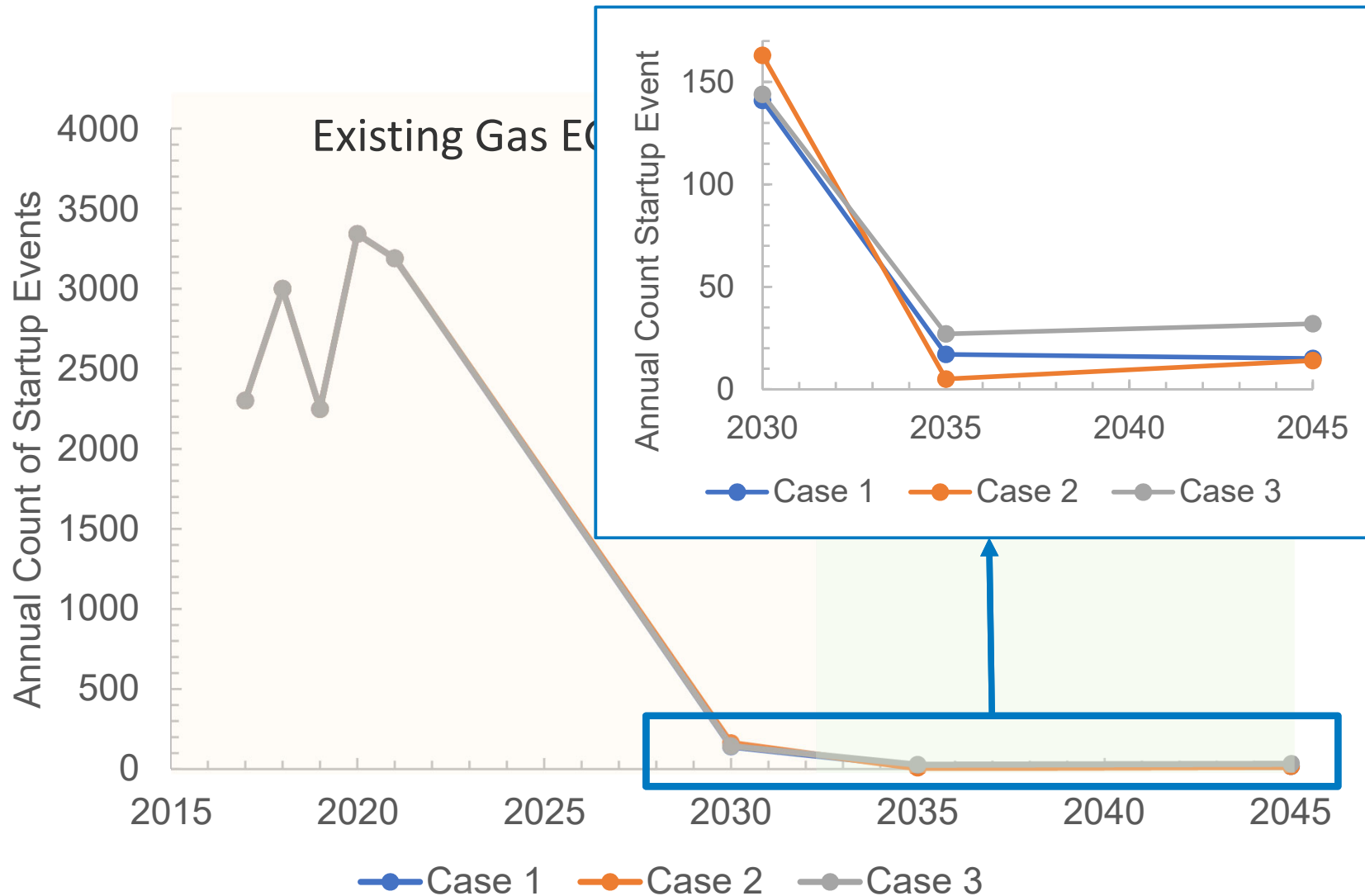
Non-steady state NOx emission factor

- Literature shows higher emissions during startup and shutdown events
 - Pollution abatement systems are less effective during startup/shutdown because they are not fully deployed
- **Startup and shutdown emissions are multiples higher than steady state emissions, across a very wide range**
 - See example figure to the right based on analysis of historical CEMS data for LADWP gas plants
- Emissions could conceivably be higher in part-load and ramping conditions
 - Upon analysis of CEMS data, this was not found to be the case for any LADWP unit
- **Therefore, we account for startup and shutdown events separate from “online” mode in our emissions analysis**



Startup frequency

**PRELIMINARY
RESULTS**



- Startup events significantly decrease compared to historical along with total generation in SLTRP cases

Startup and shutdown duration

- Startup and shutdown events are short in duration and are limited by SCAQMD air permits
 - These durations have decreased over time
- We estimate average startup and shutdown times for existing generators based on analysis of historical CEMS data
 - For combustion turbines (CT): 10-15 min
 - For combined cycle (CC): 30-80 min
- For new units, the following assumptions are made based on historical performance of newest generator, Scattergood:
 - New CT peaker plants are assumed to have 10 min duration of both startup and shutdown,
 - New CC plants have 30 min and 10 min for startup and shutdown

NOx emissions estimation – our approach

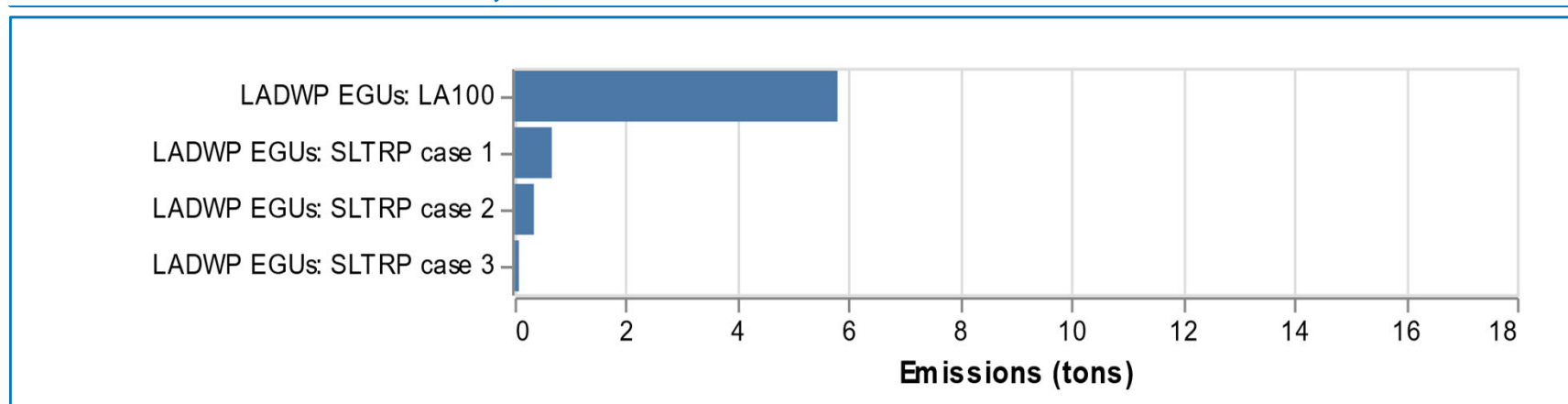
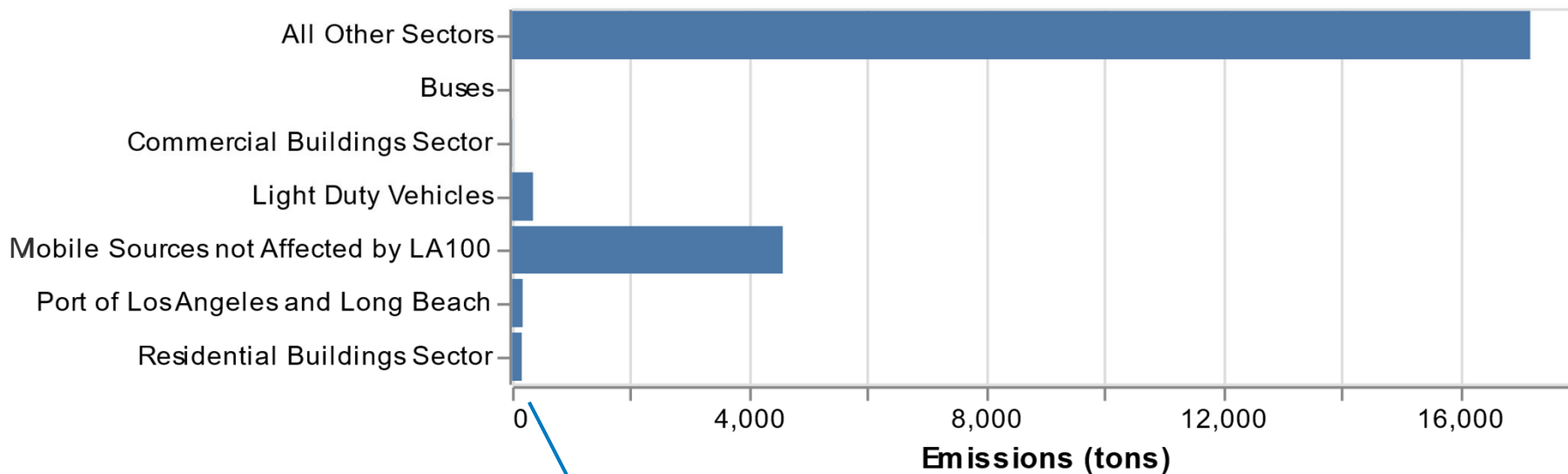
To estimate future emissions, we make the following key assumptions:

- **Steady state:** All units will meet SCAQMD emission standards (Rule 1135)
- **Startup/shutdown:** leverage analysis of CEMS data for emissions multiplier.
 - In a **simplified analysis, we use the median estimate** from the range
 - In **more detailed emissions analyses**, to better reflect the uncertainty introduced with a wide range in emissions multiplier, we develop a **probabilistic assessment method**
 - Sample non-steady state emissions 10,000 times from 15-min CEMS data (2017–2021)
- **Natural gas and hydrogen combustion are assumed to have the same emission multipliers**

Comparison of SLTRP power sector annual NOx emissions to other sectors in 2045

PRELIMINARY RESULTS

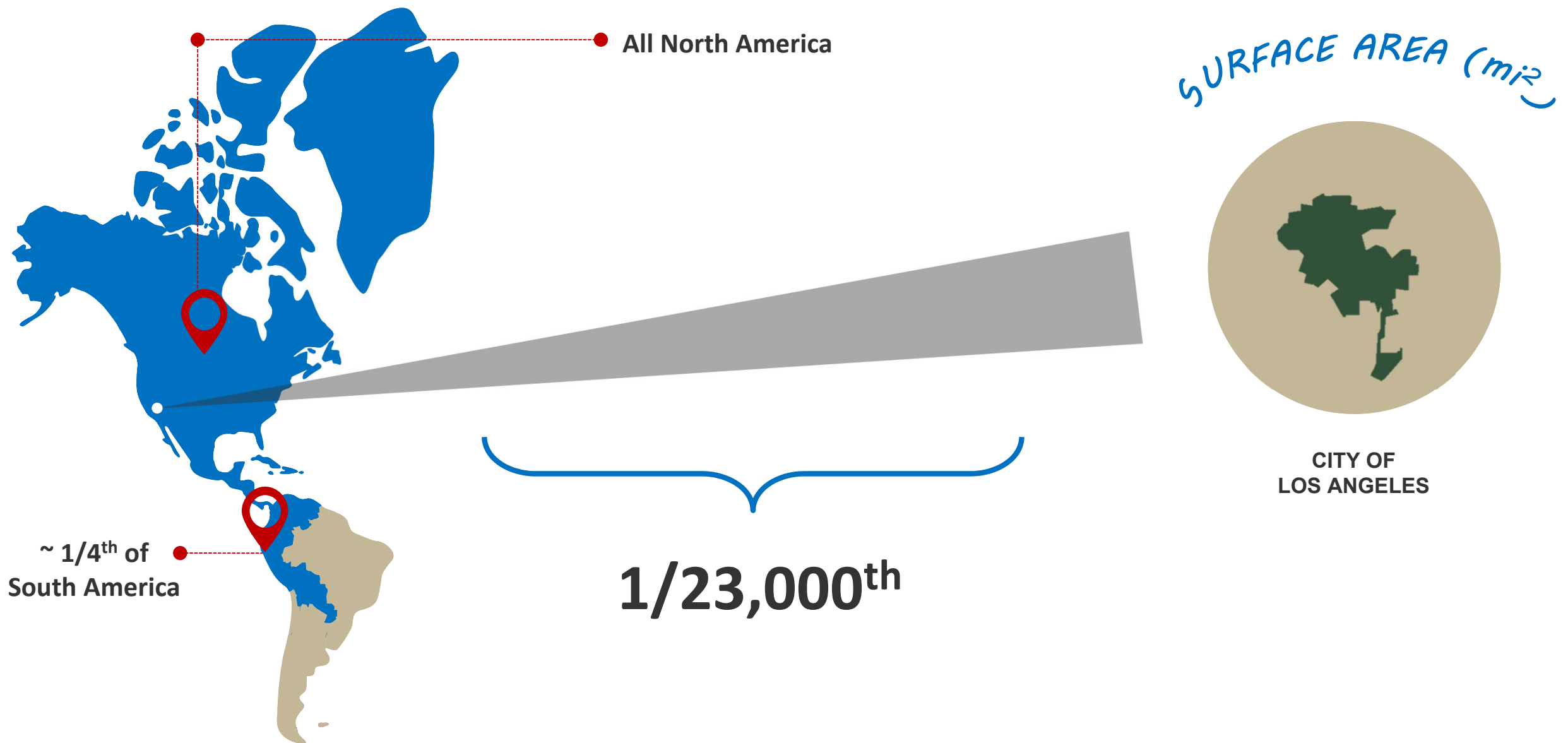
- SLTRP power sector emissions are ~23,000x less than total emissions from all other sectors
- Sum of emissions from all LADWP in-basin plants in the three SLTRP cases are <10% compared to LA100's Early & No Biofuels- High scenario



LA100: Early & No Biofuels - High scenario
 SLTRP: median emission estimates
 EGU = electricity generation unit

(note different x-axis scale)

Comparison in 2045 – A Sense of Scale





Next Steps for Emissions Analyses: Three Methods

1

Simplified annual

Median EFs

2

Probabilistic annual

10,000 samples
from
startup/shutdown
EF distribution

3

Probabilistic hourly

Developing best
method

Next steps after emissions analysis

Concentrations

- SCICHEM
- PM_{2.5}, O₃, NO₂
- Hourly concentrations in 2030, 2035, and 2040

Public Health

- BenMAP-CE
- Mortality and morbidity
- Los Angeles

Equity Analysis

- Distributional impacts
- DACs and non-DACs

Note that for steps after the emissions analysis, we must use a single emissions estimate (median)

Q&A. Thank you!

www.nrel.gov



List of Acronyms and Abbreviations

BenMAP-CE: Environmental Benefits Mapping and Analysis Program - Community Edition

MMBTU: metric million British thermal unit

CEMS: continuous emissions monitoring system

CO: carbon monoxide

DAC: disadvantaged community

DER: distributed energy resources

EF: emissions factor

EGU: electric generation unit

GWh: gigawatt-hour

H₂: hydrogen

LADWP: Los Angeles Department of Water and Power

NREL: National Renewable Energy Laboratory

NO₂: nitrogen dioxide

Non-DAC: non-disadvantaged community

NO_x: nitrogen oxide

O₃: ground-level ozone

PM: particulate matter

PM_{2.5}: fine particulate matter

RPS: renewable power system

SCAQMD: South Coast Air Quality Management District

SCR: selective catalytic reduction

SCICHEM: Second Order Closure Integrated Puff Model with Chemistry

SLTRP: Power Strategic Long-Term Resource Plan

VOC: volatile organic compounds

Discussion and Q&A



CLOSING REMARKS

JASON RONDOU

Director of Resource Planning,
Development, and Programs




NEXT STEPS

- **Selection of the 2022 SLTRP Recommended Case by Executive Management**
- **Presentation to Board of Water and Power Commissioners (October 11, 2022)** Progress update and feedback
- **Release Draft SLTRP:** Incorporate feedback from Advisory Group, Public, and Board
- **Finalize and Approve SLTRP:** Complete resource planning cycle and prepare for future iterations
- **Prepare for Future SLTRP:** Conduct Lessons Learned and continue dynamic development to prepare for 2023 SLTRP
- **Prepare Integrated Resource Plan based on 2022 SLTRP:** Requirement to submit to California Energy Commission by end of 2023
- **Continued Analysis of SLTRP Air Quality and Health Impacts**
- **LA100 Equity Strategies Updates will feed into the SLTRP as information becomes available**

SLTRP Board Date – October 11, 2022

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BOARD OF WATER AND POWER COMMISSIONERS
DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES
111 NORTH HOPE STREET, Room 1555-H, LOS ANGELES, CA 90012

REGULAR MEETING AGENDA

Tuesday, September 13, 2022, at 10:00 A.M.

Board of Water and Power Commissioners

President Cynthia McClain-Hill
Vice President Cynthia Ruiz
Commissioner Jill Banks Barad-Hopkins
Commissioner Mia Lehrer
Commissioner Nicole Neeman Brady

Wrap Up

Board Presentation:

October 11, 2022

Website: www.ladwp.com/SLTRP

Email: powerSLTRP@ladwp.com

