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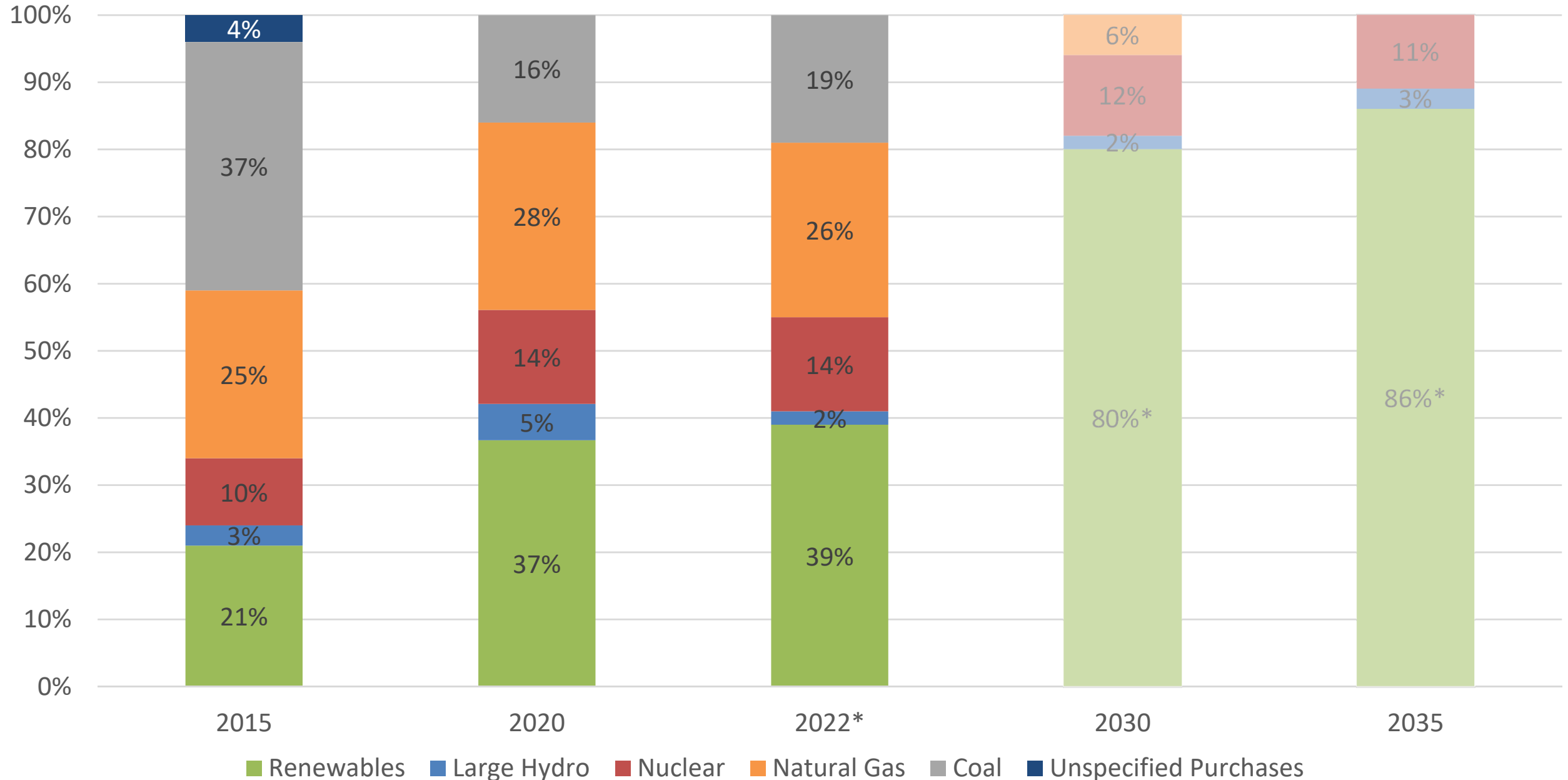
# LADWP PLANS FOR ACHIEVING SB100 GOALS

*JAY L. LIM*

*MANAGER OF RESOURCE PLANNING*

*AUGUST 22, 2023*

# LADWP's Resource Mix (2022 SLTRP)



\*Note: 2022 estimated from CP4 report; 2030 and 2035 are forecasts and renewables include storage (e.g. batteries, IPP green hydrogen)

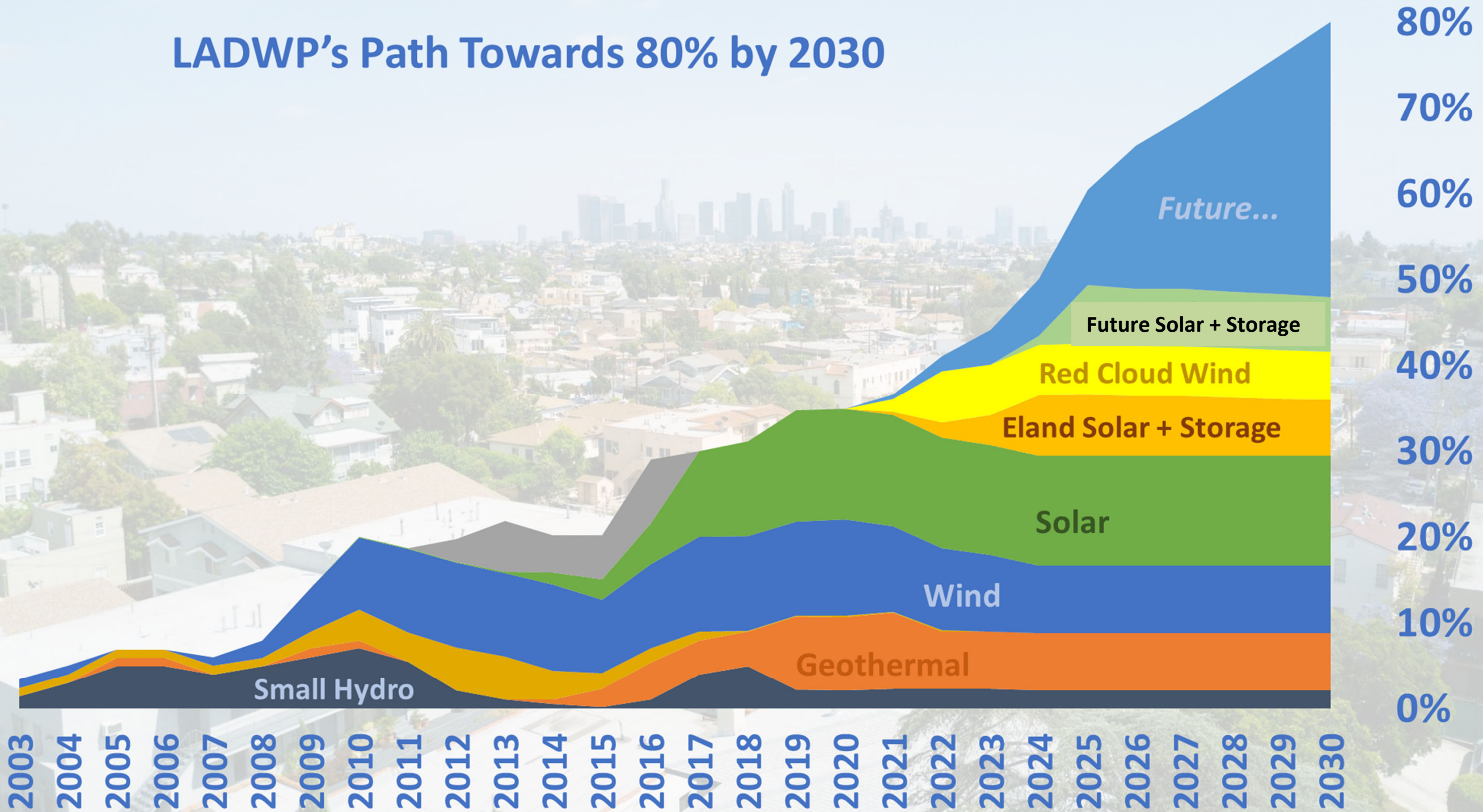
# ACCELERATE TO 80% RENEWABLE AND 97% CARBON FREE BY 2030

- Deploy 3,500 MW of new renewable energy projects
- Leverage significant existing external transmission
- Upgrade local transmission critical to delivering renewable power
- Increase local generation and transmission capacity critical to integrating renewables and resiliency



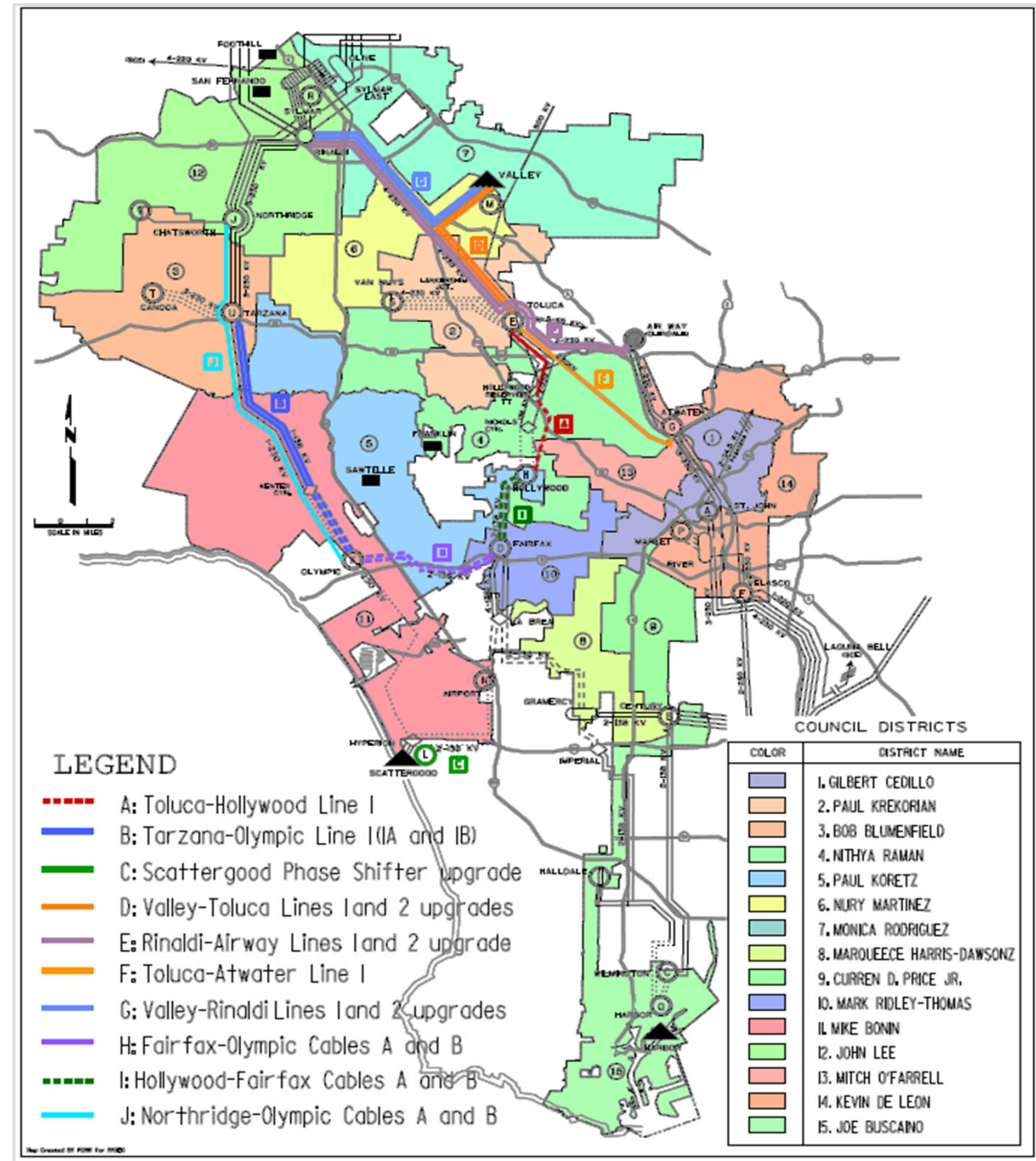


# LADWP's Path Towards 80% by 2030



# ACCELERATE LOCAL TRANSMISSION PROJECTS

- 10 Transmission Projects over 10 years to bring renewable power where its needed within the City
- Unprecedented deployment of transmission infrastructure
- **Flexible generation capacity in-basin needed to complete transmission projects in time for 2035**





# ACCELERATE ENERGY STORAGE

- Build over 1,200 MW of energy storage by 2030 in-basin and out-of-basin
- Large scale energy storage at or near all in-basin generating stations
- Expand energy storage by co-locating storage at all future utility-scale solar projects
- Increased usage of Castaic pumped hydro to integrate increased renewables
- Advertised Energy Storage Rolling Request for Proposals (RFP) in 2022
- Evaluating long duration energy storage (LDES) proposals from RFP for pilot project deployment to evaluate technology performance and reliability in preparation for further grid deployment.
- Develop Community Energy Storage Program



# DEPLOYING DISTRIBUTED ENERGY RESOURCES EQUITABLY

We need: 1,500 MW of local solar, 500 MW of demand response, double energy efficiency, and support 690,000 electric vehicles by 2030. Progress:

- LA100 Equity Strategies study through 2023
- Expanded FiT from 150 MW to 450 MW and introduced a carport incentive to spur growth
- Launched FiT+ allowing energy storage
- Launched VNEM Pilot Program
- Launched the Commercial Energy Storage to Grid (CES2G) Pilot Program to expand FTM Battery/V2G
- Expanded Power Savers (residential DR program)
- Developing a pathway to access the DSGS program
- More DER proposals under negotiations





# CAVEATS & CHALLENGES

Challenges in Achieving LADWP's Decarbonization Goals in an Affordable, Equitable, and Reliable Way

## Implementation Feasibility

- Human Resources, outage constraints, buildout schedule, real estate, and supply chain must be vetted and ramped up to support the buildout of clean energy resources.



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## System Reliability

- Firm, dispatchable capacity in-basin needs to be retained even in a decarbonized future Power System for reliability and resiliency.
- Address climate change impacts to reliability



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## Affordability and Equity

- Additional flexibility in planning to optimize resources is needed to improve cost affordability and minimize energy burden.
- Incorporate LA100 Equity Strategies



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## Availability of Technology

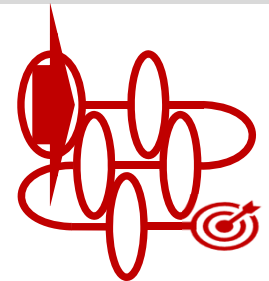
- Monitor emerging technologies for readiness and feasibility.
- Availability of certain resources (e.g. geothermal)



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## Power System Roadmap and Next SLTRP

- There is a critical need to review internal and external constraints, optimize future resource plans, which may ultimately impact clean energy goals.



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# THANK YOU

LADWP is on track to a zero carbon future.

We've demonstrated our commitment and leadership, but we can't do it alone. We need help with funding, permitting, and coordination to achieve these goals.

