

October 9, 2024

The Honorable City Council
Office of the City Clerk
Room 395, City Hall
Mail Stop 160

Attention: Councilwoman Katy Yaroslavsky
Chairperson, Energy and Environment Committee

Honorable Members:

Subject: Council File No. 21-0352 – LA100 / Strategic Long Term Resource Plan /
2035 100% Carbon-Free Energy / Los Angeles Department of Water

Attached is the Los Angeles Department of Water and Power's response to council file #21-0352, which includes the bi-annual LA100 Report Card and presentation for the City Council's Energy & Environment Committee.

If you have any questions or if further information is required, please call me at (213)367-3846 - Mr. Paul Habib, Director of Legislative and Intergovernmental Affairs.

Sincerely,



Janisse Quiñones
CEO and Chief Engineer

PH:tf

Enclosure

c/enc: Councilmember Tim McOsler, Energy and Environment Committee
Councilmember Nithya Raman, Energy and Environment Committee
Councilmember Bob Blumenfield, Energy and Environment Committee
Councilmember Kevin De León, Energy and Environment Committee
Mr. Paul Habib

LA100 Bi-Annual Report Card

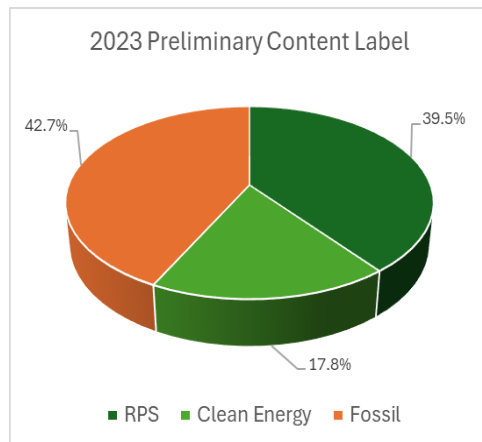
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Key Progress Updates on LA100 Planning & Implementation

- **Eland Phase 1 Project is near commercial operation**, partnering with Glendale Water and Power, providing **200 MW of Solar energy, coupled with 150 MW/4 Hr battery**. Construction of Eland Phase 2 Solar Project has commenced and will be commissioned in the first quarter of 2025, bringing online additional 200 MW of solar, coupled with 150 MW/4 Hr battery.
- The **Intermountain Power Project (IPP) Renewed Project**, 840 MW of green hydrogen ready combined cycle units, is on track for **commercial operation by mid-2025**, providing cleaner electricity and replacing 1,900 MW of LADWP's last coal-fired generating units.
- LADWP has successfully **applied to more than \$4 Billion in grants** and was **awarded more than \$59M**, with an additional **\$150M in negotiations** with funding.
- The **2024 SLTRP** is targeting a carbon-free grid by 2035. Five Advisory Group meetings have been held and modeling is underway with advanced modeling software, compiling critical input assumptions, and constructing detailed scenario and risks analyses.
- **LA100 Equity Strategies Implementation Phase** began in March 2024 by adding the Equity Strategies Advisory Committee as stakeholders to the 2024 SLTRP and including equity and energy burden as considerations for SLTRP analysis. Equity Strategies Advisory Committee is developing equity criteria and metrics for evaluation of DWP projects and programs and providing input into the near-term action plan for the Distributed Energy Resources program.
- Cool LA Initiative launched in 2022, offering customers on an income qualified rate a \$225 instant rebate for room air conditioners. The program had over 7,614 participants and has paid out over \$2.2 million in incentives. In last few months, LADWP has given out 856 free units to low-income customers.
- LADWP is integrating **Climate Vulnerability and Adaptation strategies** into its long-term plan, by analyzing climate data, conducting assessments, and developing targeted programs as needed.

Renewables & Energy Storage (ES)



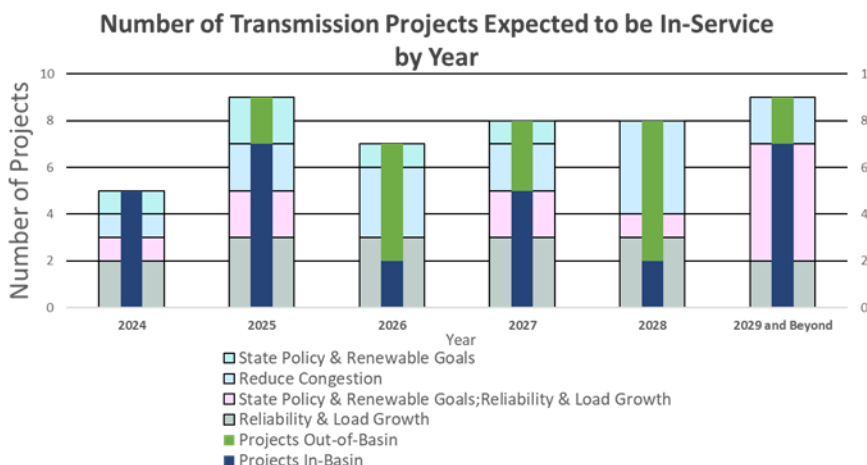
2024 SLTRP Targets of: 80% by 2030 & 100% by 2035.
49% RPS (Forecast for 2024)

Renewable Projects: More than 25 utility-scale projects are currently operational spanning seven Western States. Several in process of negotiations.

Energy Storage: Currently, 1,336 MW of energy storage operates across the Power System, with 39.57 MW behind-the-meter (BTM) in-basin systems.

Transmission Development

Numerous transmission projects are in progress to enhance system resiliency, with various projects in different stages, including construction, planning, and design. LADWP is making a significant investment of \$1.8 billion into strengthening its transmission infrastructure. However, project delays can occur due to factors such as coordinating scheduled outages, as multiple outages cannot be performed simultaneously.



- **Diverse Project Type:** Existing transmission projects include overhead, underground and station work
- **Multiple Project Needs:** Projects are needed for reliability, State and Local Policy, renewable goals and load growth
- **Future Requirements:** Additional projects are expected to be developed to meet LA100 goals

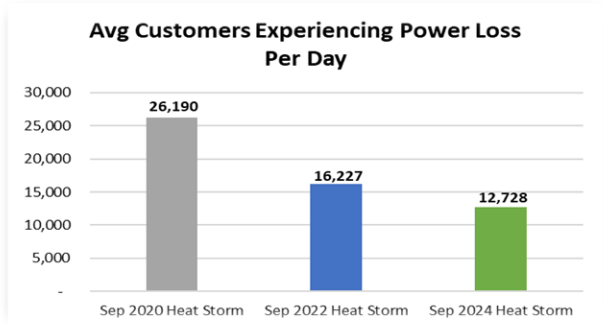
Generation Station (GS) Transformation

Valley, Haynes, Harbor, Scattergood, and IPP

	Project Name	Est. Completion	Project Phase
1	Valley GS Unit 1-4 & Stack Demolition	November, 2026	Demolition/Construction
2	Haynes GS Unit 8 Cooling System Retrofit	May 29, 2029	RFP Development
3	Intermountain Power Project (IPP) Renewed	June 30, 2025	Construction/Pre-Commissioning
4	Scattergood GS Units 1 & 2 Green Hydrogen Ready Modernization	December, 2029	Enviro Permitting/RFP Dev.
5	Harbor Generating Station Unit 5 Cooling System Retrofit	December 31, 2029	ED4 Process

Power System Reliability

- **Reliability metrics (as of 6/30/24):**
 - SAIFI (system frequency): 0.64 interruptions DWP target : 0.78
 - SAIDI (system duration): 109.28 minutes DWP target : 95
 - CAIDI (customer duration): 170.75 minutes DWP target : 165
- **Asset replacement (as of 6/30/24):**
 - Poles: 2,931 (3,700 target)
 - Crossarms: 10,947 (12,600 target)
 - Transformers: 1,305 (1,255 target)
 - Cables: 60.4 miles (60 miles target)
- **Budget (as of 6/30/24):**
 - \$1,375 million for all PSRP work:**
 - \$747 million on Capital jobs (\$838M target)
 - \$628 million on O&M jobs (\$605M target)



Impact on Electrical Distribution System

As LADWP progresses toward 100% carbon free goal, it cannot sacrifice reliability and resilience but will need to bolster it. LADWP will need to modernize the distribution system and execute large electrical distribution infrastructure projects inside the substations and in many neighborhoods.

Divers for Large Infrastructure Projects

- Light duty and commercial **EV** adoption targets
- **Electrification goals** and large capital projects from city agencies such as Port of LA, LA World Airport, LADWP Water System and LA Sanitation.
- Local Distributed Energy Resources (such as **Solar and Energy Storage**) adoption targets

Distributed Energy Resources

- **Customer programs** have introduced **new** building electrification Business Offerings for Sustainable Solutions (BOSS) Programs. Additionally, customer programs have **increased energy efficiency** and **building electrification** offerings across all customer segments including low income and DAC customers.
- **Local Solar.** Total local solar of **approx. 748 MW. Target of 926 MW** by 2025, 1500 MW by 2030, and 2220 MW by 2035.
 - Currently evaluating proposals from an RFP to **expand residential, commercial and industrial Demand Response portfolio** thru managed EV charging, Building Energy Management Systems, etc.
- Recently launched the **Demand Side Grid Support Program** under CEC guidelines, which **offers incentives** to electric customers, who reduce load and provide backup generation with a goal of encouraging more **behind-the-meter energy storage adoption** for both existing and new solar customers.
- **Energy efficiency** adoption is on track with LA100 projections. Current forecasts show LADWP is on track to achieve 350 GWh or more each year contingent on IHRP staffing allocations.

Electrification

EVs and charging stations have **exceeded** LADWP goals and the LA100 study scenarios projected high electrification to ensure low rates. New goals have been established to align with consumer demand, industry projections, state goals and distribution system infrastructure improvements. LADWP is in the process of developing EV Hubs to serve the community's charging needs. LADWP is developing two new EV Hubs to better serve the community. The first is located at Van Nuys Plaza (14531 Lanark St.) and the second at Normandie Plaza (18120 Normandie Ave), with both scheduled to be operational by February 2026.

Commercial EV Charging Targets:

- 45,000 charging stations by 2025 including 1,000 DC Fast Chargers (**33,051 as of 10/2024**)
- 120,000 charging stations by 2030 including 3,000 DC Fast Chargers

City of LA EV Adoption Targets:

- 250,000 Light Duty EVs by 2025 (**176,852 as of 6/2024**)
- 550,000 Light Duty EVs by 2028
- 750,000 Light Duty EVs by 2030