

**Joint San Pedro Neighborhood Councils  
Environment & Sustainability Committee  
Meeting  
4/08/21  
LA100 Summary**

**Summary Presentation Prepared by Richard Havenick, Chair of Coastal San Pedro  
Neighborhood Council Environment & Sustainability Committee**

## Joint San Pedro Neighborhood Councils Environment & Sustainability Committee Meeting, 4/08/21

### LA100 - The Los Angeles 100% Renewable Energy Study - Intro

- In coordination with the Office of Los Angeles Mayor Eric Garcetti, LADWP established the LA100 Advisory Group in 2017.
- LADWP, the largest municipal utility in the country, currently generates over half of its electricity from renewable and zero-carbon resources.
- LADWP partnered with the National Renewable Energy Laboratory (NREL) on the Los Angeles 100% Renewable Energy Study (LA100).
- The Advisory Group conducted 15 quarterly meetings from June 2017 through March 2021 and helped NREL to further tailor its analysis to LA's needs.

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LA100 - The Los Angeles 100% Renewable Energy Study - Intro

- Using cutting-edge technology to combine dozens of economic, energy, and public health models, LA100 produced more than 100 million simulations to identify a series of pathways that will lead the Department to 100% renewable energy.
- The analysis affirms that reaching a 100% renewable, reliable, and resilient grid is within Los Angeles' grasp and will provide a wide range of health and economic benefits.

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LA100 - The Los Angeles 100% Renewable Energy Study- Results

- Results show that meeting LA's goal of reliable, 100% renewable electricity is possible by 2035 and will entail rapid deployment of wind, solar, and storage technologies along with aggressive electrification targets for buildings and vehicles.
- With NREL's supercomputers and expertise, the team defined four different scenarios for success.
- The scenarios ranged from the SB100 scenario, which requires that 100% of electricity sales be renewable or zero carbon by 2045, to the Early & No Biofuels Plan to achieve 100% clean energy by 2035.

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LA100 - The Los Angeles 100% Renewable Energy Study - 2035

- Coincidentally, US President Joe Biden issued on January 27, 2021 the Executive Order on Tackling the Climate Crisis committing to decarbonize the nation's electric power sector by 2035.
- The Early & No Biofuels Plan scenario, 100% by 2035, assumes higher levels of customer rooftop solar adoption, prohibits the use of biofuels because of concerns about sustainability, and builds infrastructure to produce hydrogen gas from renewable-based electricity. The hydrogen-fueled power plants use would be limited to only when wind and solar power are insufficient to meet customer demand, just as the biofuel plants are used in other scenarios.

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LA100 – City Council Action

- On March 31, 2021, two City Council members, Paul Krekorian 2<sup>nd</sup> District and Mitch O’Farrell 13<sup>th</sup> District, proposed the Motion, seconded by Council President Nury Martinez, that would direct the DWP to prepare a Long Term Strategic Plan to achieve 100% carbon free energy by 2035 in an equitable way that has minimal adverse impacts on rate payers.
- The LTSP must include a list of shovel-ready projects to seize on Federal and State funding opportunities.

## MOTION

In 2016, the Los Angeles City Council unanimously approved a motion (CF 16-0243, Krekorian and Bonin) recognizing that “the city has an opportunity to re-create its utility in a way that recognizes the potential for a fossil-free future, demonstrates global leadership in its commitment to clean energy, and protects ratepayers from the increasing costs of carbon-based fuels.” The motion instructed the Department of Water and Power (DWP) to develop a partnership with the US Department of Energy and other entities to determine what investments must be made to achieve a 100% fossil-free energy portfolio for the DWP. This project is known as LA100.

As a result of the Council's action on the Krekorian/Bonin LA100 motion, the DWP entered into an innovative, first-in-the-nation partnership with the US Department of Energy's National Renewable Energy Lab (NREL) to study the technical feasibility of achieving a 100% clean energy grid. The NREL study team, made up of nearly 100 technical experts, working with some of the most powerful supercomputers in the nation, led a thorough process on behalf of, and in close partnership with, the DWP. The study provides objective, technically rigorous, science-based recommendations on different 100% carbon-free energy scenarios, and considers their technical feasibility, cost, reliability, resiliency, health improvements, job benefits, and environmental justice implications.

The study was enhanced by the participation of more than 100 members of the stakeholder advisory panel, representing nearly 50 organizations that included environmental justice groups, industry representatives, local technical experts, and government agencies.

All scenarios in the LA100 analysis share dramatic local benefits, including:

- Significant improvements to local air quality and reduced hospitalization and death from respiratory ailments associated with ozone and particulate matter;
- Thousands of local, good-paying jobs created, such as maintenance of clean energy systems and construction of new transmission and distribution lines;
- The opportunity to reverse decades of environmental injustice by replacing dirty gas-fired plants in working class neighborhoods with clean energy; and
- A reliable and resilient grid, capable of adapting to a changing climate and shocks caused by natural disasters.

LA100's “stress” scenarios, which assume high amounts of building and transportation electrification but modest energy efficiency and demand response programs, demonstrate the imperative of creating much more robust and creative programs to address future demand. Energy efficiency programs, which make LA100 goals more feasible, must prioritize low-income customers and ensure that all communities share in the benefits of the clean energy economy.

In the coming months, LADWP will prepare a Strategic Long Term Resource Plan (SLTRP), which is the first opportunity to create a schedule and begin planning and approving investments needed to reach the 100% clean energy goal. As the Department prepares its

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proposals for Council approval, the SLTRP should feature "no regrets" investment strategies, including:

- Substantial investments in new transmission capacity
- Substantial investments in new storage capacity
- A ramp up of distributed energy generation programs, particularly rooftop solar
- Expanded energy efficiency programs
- Rate structures that promote electrification of buildings, transportation, and facilitate demand response

In 2018, SB100 committed all power utilities in California to achieve 100% renewable energy by 2045, which represents the DWP's current legally mandated requirement. In 2019, this City Council adopted the LA Green New Deal, which further sets Los Angeles on a path to achieve net zero carbon by 2050, including strategies to electrify our building and transportation sectors.

In his January 27, 2021 Executive Order on Tackling the Climate Crisis, President Joe Biden committed the federal government to decarbonizing the nation's electric power sector by 2035. Given this national target, the hope for federal funding to support these goals, and the technical knowledge acquired from LA100, Los Angeles is in a position to lead.

I THEREFORE MOVE that the Council INSTRUCT the Department of Water and Power to prepare a Strategic Long Term Resource Plan that achieves 100% carbon-free energy by 2035, in a way that is equitable and has minimal adverse impact on ratepayers.

I FURTHER MOVE that the Strategic Long Term Resource Plan prioritize equity for environmental justice communities, defined as those scoring at or above the 80th percentile on CalEnviroScreen. The plan should ensure that emissions are not increased for any period of time at facilities in environmental justice communities, particularly Valley Generating Station.

I FURTHER MOVE that the Council INSTRUCT the Chief Legislative Analyst, with the assistance of the Department of Water and Power, to report on the "no-regrets" projects that are common to all LA100 paths and present an accelerated pathway to launch and complete those projects. This report should include a list of "shovel-ready" projects that DWP can be ready to act on in order to seize on Federal and State funding opportunities.



Presented by: \_\_\_\_\_

PAUL KREKORIAN  
Councilmember, 2<sup>nd</sup> District



MITCH O'FARRELL  
Councilmember, 13<sup>th</sup> District

Seconded by: \_\_\_\_\_



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### The Los Angeles 100% Renewable Energy Study - References

- City Council Resolution, <https://assets.documentcloud.org/documents/20536634/la-city-council-resolution.pdf>
- LA100: The Los Angeles 100% Renewable Energy Study home, <https://www.nrel.gov/analysis/los-angeles-100-percent-renewable-study.html>
- LA100: The Los Angeles 100% Renewable Energy Study Executive Summary, <https://www.nrel.gov/docs/fy21osti/79444-ES.pdf>
- American Public Power Association statement, <https://www.publicpower.org/periodical/article/nrel-study-outlines-how-los-angeles-can-meet-goal-reliable-100-renewable-electricity>
- Food and Water Watch statement, <https://secure.foodandwaterwatch.org/act/LA-ready-for-100-by-2030>
- California News Updates/Roseville Today, <https://www.rosevilletoday.com/press-releases/los-angeles-announces-findings-of-100-renewable-energy-study/>