



Long Beach Water

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Board of Water Commissioners

September 29, 2022

CHRISTOPHER J. GARNER, General Manager

Subject

Authorize the General Manager to execute a Memorandum of Cooperation with Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) for the purposes of informing future energy efficiency and clean energy work.

Executive Summary

The Long Beach Water Department (LBWD) delivers high quality and safe drinking water to the City of Long Beach and manages wastewater collection in an environmentally-responsible manner while continually providing exceptional customer service. As a recognized leader in water-use efficiency and innovation, LBWD contributes to creating a sustainable community, develops collaborative partnerships, and fosters a quality workforce. We also recognize the water industry is an energy-intensive industry.

As a department, we have been expanding the footprint of our local water infrastructure to meet local water supply needs and become more drought resilient. This is an action we must take to adapt to climate change and ensure water supply reliability; it is also an action that will increase LBWD's overall energy use, despite our commitment to energy efficiency. Concurrently, across the nation and in California, advances in clean energy are happening. This confluence of events presents opportunities for LBWD to engage in partnerships that may have applications for water. The ARCHES coalition presents such an opportunity.

ARCHES is California's public-private hydrogen hub consortium. It was formed to accelerate the development of clean, renewable hydrogen projects and infrastructure with the belief that clean hydrogen can supplement renewable energy sources to reduce greenhouse gas emissions and advance a zero-carbon economy in the future. Its formation allows the State of California to organize around an anticipated \$8 billion national investment by the United States Department of Energy (DOE) to develop hydrogen hubs that can become self-sustaining in the future. The DOE is interested in investing where hydrogen development, infrastructure and use can be supported.

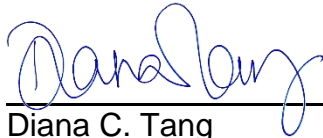
On July 12, 2022, the Long Beach City Council voted to consider joining ARCHES as a way to partner with the University of California, Governor's Office of Business and Economic Development, State Building and Construction Trades Council of California, and International Brotherhood of Electrical Workers Local 11 on this work.

Joining ARCHES gives LBWD a unique opportunity to engage with research institutions, regulators and industry as clean hydrogen is developed. It is an invaluable learning opportunity that can be used to inform future decisions. We expect the City of Long Beach and Port of Long Beach to also be key stakeholders in the ARCHES coalition.

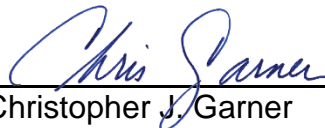
Recommendation

Authorize the General Manager to execute a Memorandum of Cooperation with Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) for the purposes of informing future energy efficiency and clean energy work.

Fiscal Impact: There would be no fiscal impact to the Water Department's Fiscal Year 2022-23 budget.



Diana C. Tang
Deputy General Manager



Christopher J. Garner
General Manager