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December 6, 2022

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HONORABLE MAYOR AND CITY COUNCIL
City of Long Beach
California

RECOMMENDATION:

Adopt Resolution in Support of the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES). (Citywide)

DISCUSSION

Pursuant to the City Council's request on July 12, 2022, we have prepared the attached Resolution in Support for the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) for the Council's review and approval.

This Resolution supports ARCHES' initiative as it applies for federal Hydrogen Hub designation and funding, as well as directs the City Manager, or designee, to coordinate with all relevant City departments under their direction to join the ARCHES public private partnership initiative with the objective of creating a winning Hydrogen Hub proposal for California.

SUGGESTED ACTION:

Approve recommendation.

Respectfully Submitted,

CHARLES PARKIN, City Attorney

By: 
MONICA J. KILAITA
Deputy City Attorney

MJK:ag
Attachment: City Council Resolution
A22-01913
01412688.DOCX

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RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE
CITY OF LONG BEACH IN SUPPORT OF THE ALLIANCE
FOR RENEWABLE CLEAN HYDROGEN ENERGY
SYSTEMS (ARCHES)

WHEREAS, the City of Long Beach (City), together with the Port of Long Beach, along with the numerous industry and utility partners operating within the territory of Long Beach, is committed to a long-term vision of deep decarbonization and pollution reduction in the City and especially along the 710-freeway corridor and the Port complex; and

WHEREAS, in November 2017, the Port of Long Beach, in partnership with the Port of Los Angeles, approved the updated San Pedro Bay Ports Clean Air Action (Ports' CAAP), which provides guidance to help the region achieve its clean air goals and to support the statewide vision for more sustainable freight movement with the ultimate goal of zero emissions goods movement; and

WHEREAS, the Ports' CAAP outlines near-term and long-term strategies which are, in part, dependent on new and emerging technologies; and

WHEREAS, on January 5, 2021, the City approved its Climate Action and Adaptation Plan, which is committed to helping reduce greenhouse gas (GHG) emissions, preparing the community for the impacts of climate change, improving the quality of life, and enhancing economic vitality in Long Beach; and

WHEREAS, in order to reach the vision of a carbon free economy, we will need a wide array of renewable resources, storage, and carbon free fuels such as green hydrogen, and many processes and sectors cannot currently be decarbonized using existing battery electric technology; and

1 WHEREAS, clean renewable (or “green”) hydrogen can lessen the impacts
2 on public health and environment of short-lived climate pollutants from fossil fuel
3 production, consumption, and transport activities; and

4 WHEREAS, with proper guardrails, green hydrogen can alleviate the
5 disproportionate safety and pollution burdens experienced by frontline workers and
6 communities surrounding transit corridors and ports, which have disproportionately borne
7 adverse health impacts from industrial pollutants, toxicity and emissions; and

8 WHEREAS, we recognize that the goods movement industry
9 disproportionately impacts people of color and Long Beach residents; and

10 WHEREAS, green hydrogen offers enormous promise in advancing zero-
11 carbon solutions and a replacement to diesel and natural gas, particularly for the most
12 difficult-to-decarbonize industrial sectors, such as long-haul goods movement through
13 trucking, shipping and aviation, heavy industry, long duration energy storage, and more;
14 and

15 WHEREAS, in advancing carbon-free energy to produce green hydrogen,
16 we can see gains in system reliability and resilience, create local jobs, secure our energy
17 independence, and minimize supply chain disruptions, all while curbing climate change
18 and growing the economy; and

19 WHEREAS, green hydrogen is also a promising source of next-generation
20 workforce opportunities and high-skilled, high-paid jobs and careers; and

21 WHEREAS, the federal Bipartisan Infrastructure Law (federal BIL), enacted
22 in 2021, mandates that starting in 2022 and through 2027, \$8 billion will be made
23 available to establish at least four regional public private partnership clean hydrogen
24 hubs across the United States, with at least one focused on the use of renewable
25 sources (solar, wind, etc.), to produce, store, and use clean (green) hydrogen; and these
26 private public partnership hubs will have to meet the goal of producing hydrogen for \$2/kg
27 in the first 5 years and position the industry to reach the Hydrogen Earth-Shot Challenge
28 (\$1/kg H2 in 1 decade); and

1 WHEREAS, clusters will prioritize significant renewable resources,
2 availability of large scale H2 off-takers, H2 storage possibilities, key H2 and clean energy
3 transportation corridors, and coastal/port systems and other hard to decarbonize
4 industries with a need for clean energy and reduced pollution; and

5 WHEREAS, to realize the goal of a green hydrogen hub in California, a
6 consortium of key California institutional, private, community, labor and civic sponsors
7 have come together to accelerate societal transition to a carbon free economy by
8 charting a path to a viable green hydrogen solution based on renewable energy under the
9 umbrella of the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) in
10 response to the federal BIL; and

11 WHEREAS, ARCHES will ultimately bring together and engage different
12 industries, academia, utilities, regional and state governments, unions, municipalities
13 including Long Beach and Los Angeles, trade organizations, non-profits, and others; and

14 WHEREAS, only by bringing together all relevant parties can a unified large
15 scale hydrogen vision and efficient, rapid deployment be realized, thereby allowing
16 validation and quick promulgation of discoveries, experience, learnings and know-how;
17 and

18 WHEREAS, the management and organization of ARCHES is by nature of
19 a broad and complex scope, thereby requiring the establishment of a new public private
20 partnership organization familiar and experienced with large, complex governance
21 structures, one which can also be agile, adaptable and holistic in its approaches; and

22 WHEREAS, on May 17, 2022, the Los Angeles City Council voted
23 unanimously to direct “the Department of Water and Power and the Port of Los Angeles,
24 in collaboration with other partners, to coordinate a local effort to create and submit a
25 proposal to the Department of Energy proposing the Greater Los Angeles Metropolitan
26 area for consideration to be a regional Green Hydrogen Hub to power hard-to-electrify
27 industries, made from electrolysis of renewable energy”; and the Los Angeles City
28 Council also directed that “the Department of Water and Power and the Port of Los

1 Angeles should engage with potential collaborators in the public, private and academic
2 sectors to further this regional effort to establish a local Green Hydrogen Hub, including
3 the County of Los Angeles, the City of Long Beach, Los Angeles World Airports, the
4 University of California, Green Hydrogen advocates, Labor, Investor Owned and Public
5 Utilities, Environmental and Environmental Justice organizations, and other producers,
6 end users, and potential collaborators”; and

7 WHEREAS, the Port of Long Beach entered into a Memorandum of
8 Cooperation with ARCHES to (1) continue its engagement in the discussions related to
9 the development of a hydrogen hub for California that could benefit the port industry in its
10 pursuit of zero emissions, and (2) participate in the process to develop a California
11 Hydrogen Hub proposal in response to the upcoming U.S. Department of Energy
12 solicitation for funding to develop regional hydrogen hubs throughout the nation;

13 NOW, THEREFORE, the City Council of the City of Long Beach resolves as
14 follows:

15 Section 1. The City of Long Beach hereby supports the Alliance for
16 Renewable Clean Hydrogen Energy Systems (ARCHES) initiative as it applies for federal
17 Hydrogen Hub designation and funding.

18 Section 2. The Long Beach City Manager, or designee, will coordinate
19 with all relevant City departments under their direction to join the ARCHES public private
20 partnership initiative with the objective of creating a winning Hydrogen Hub proposal for
21 California.

22 Section 3. This resolution shall take effect immediately upon its adoption
23 by the City Council, and the City Clerk shall certify the vote adopting this resolution.

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