

<b>DOCKETED</b>	
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<b>Project Title:</b>	Emerging Topics
<b>TN #:</b>	243603
<b>Document Title:</b>	Presentation - LOS ANGELES GREEN HYDROGEN EFFORTS
<b>Description:</b>	2B. Louis Ting, LADWP
<b>Filer:</b>	Raquel Kravitz
<b>Organization:</b>	Los Angeles Department of Water & Power
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# LOS ANGELES GREEN HYDROGEN EFFORTS

CEC IPER Commissioner Workshop

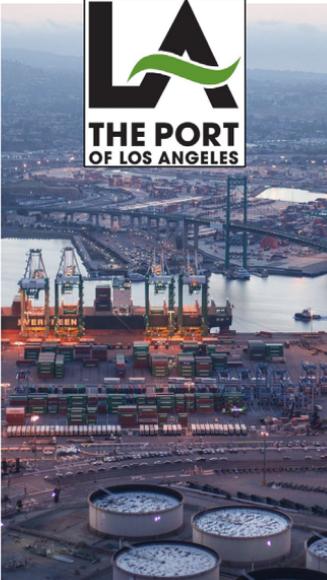
June 21, 2022

# GREEN HYDROGEN – CITYWIDE COLLABORATION

LOS ANGELES HAS LARGE GREEN HYDROGEN POTENTIAL – OFFTAKE & PRODUCTION



LOS ANGELES



**C&I  
Customers**



# LA100 STUDY – BULK ELECTRIC SYSTEM

ACROSS ALL LA100 SCENARIOS



Electrification  
Efficiency  
Flexible Load



Customer  
Rooftop Solar



Renewable  
Energy



Storage



Transmission,  
Distribution



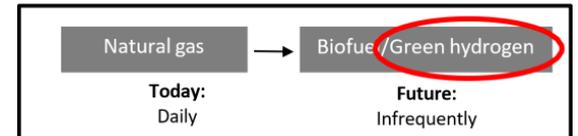
Renewably Fueled  
Dispatchable Turbines

Solar: + >5,700 MW  
Wind: + >4,300 MW

+ >2,600 MW

+ >2,600 MW  
(in basin)

Much More



# TRANSFORMING LOCAL GENERATION

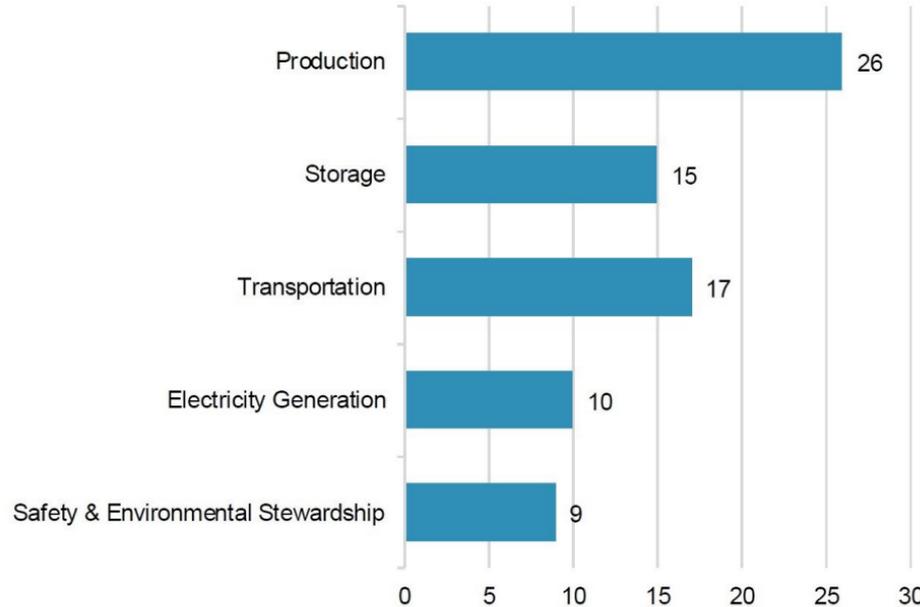
## ALIGNING WITH LA100 - GREEN HYDROGEN

- One of LA100's **key findings** is that L.A. will need **in-basin**, reliable combustion generation
- LA100 assumes **hydrogen in all of the scenarios** to help achieve the last 10% toward a 100% carbon-free power supply that is reliable and resilient
- Hydrogen may be critical in decarbonizing **hard-to-electrify industries**
- LADWP also plans to use green **hydrogen** as a **clean fuel to supplement** a generation portfolio largely dominated by renewables
- **Green hydrogen Request for Information (RFI)** for all in-basin generating stations. Construct **hydrogen capacity at Scattergood**. Retrofit **Haynes to recycled water cooling**.



# LADWP GREEN H<sub>2</sub> RFI - RESULTS

## REQUEST FOR INFORMATION - IN BASIN

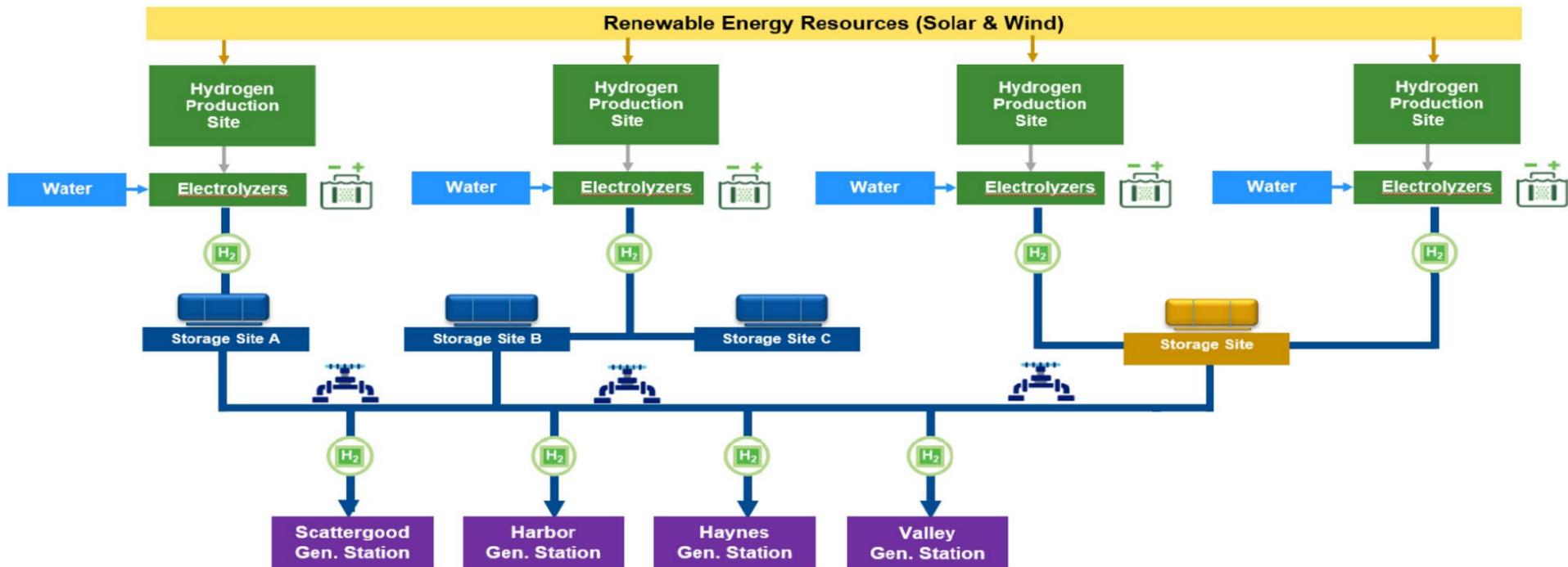


### Responding Industries

- Turbine OEMs
- Electrolyzer Manufacturers
- Fuel Cell Manufacturers
- Gas Providers
- Green Ammonia Producers
- Renewable Developers
- Safety Products
- Consultants
- Project Developers

# LADWP GREEN H<sub>2</sub> RFI - POTENTIAL

REQUEST FOR INFORMATION - IN BASIN

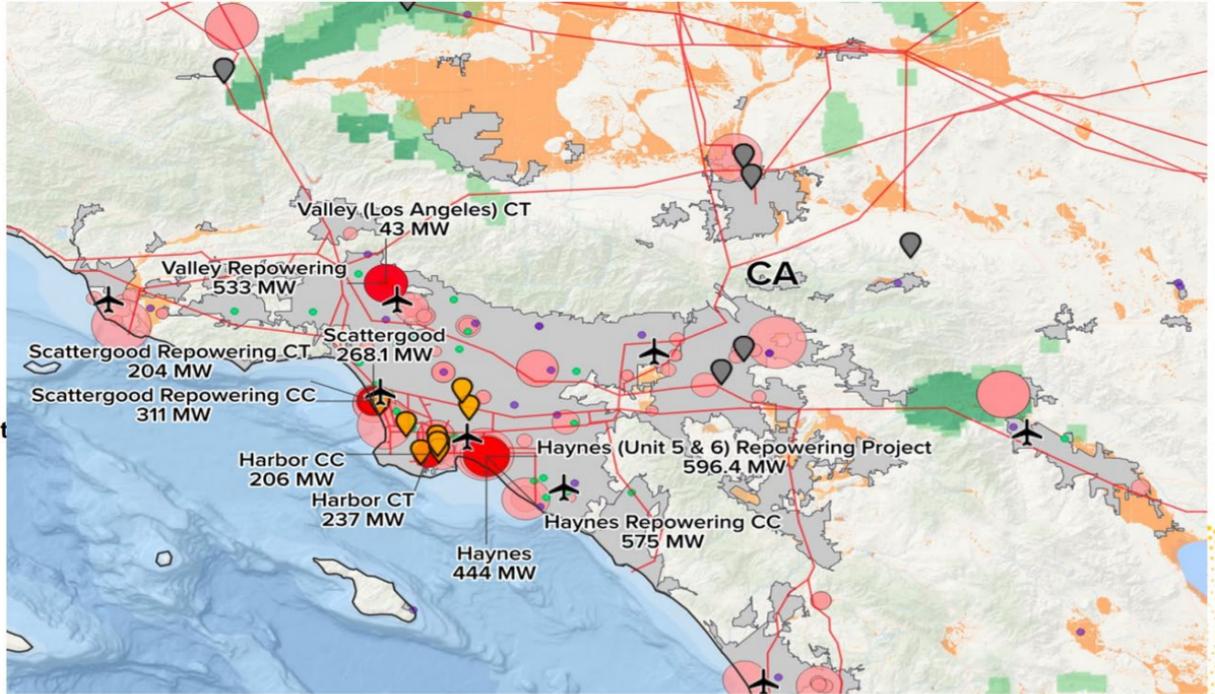


# HYDEAL LA 2 - GH2 OFFTAKE+

EQUITY, POLLUTION REDUCTION, JOB CREATION AND ECONOMIC DEVELOPMENT

Los Angeles is also the home of the 2028 Olympics – perfect context to become America’s first green hydrogen city

- Natural Gas Pipelines
- Gas Power Plants
- LAWP Power Plants
- Wind Resource
- Solar Resource
- Urban Areas of LA and LA Count
- Oil Refineries
- Cement Plants
- ✈ Airport
- Backup Generators
- Hydrogen Fuel Stations



# INTERMOUNTAIN POWER PROJECT

GREEN HYDROGEN PRODUCTION, STORAGE, GENERATION, DC TRANSMISSION TO LOS ANGELES



- Feb, 2020
  - 840 MW CC – Mitsubishi
  - 30% GH2 by 2025
- Jun, 2022
  - GH2 Production & Storage
  - DOE \$504.4M Loan Secured
- Q2 2022 – Q2 2025
  - GH2 Hub Development
  - Power Island EPC
  - Switchyard Expansion
- Over 2,000 MW Renewable in queue

**THANK YOU**