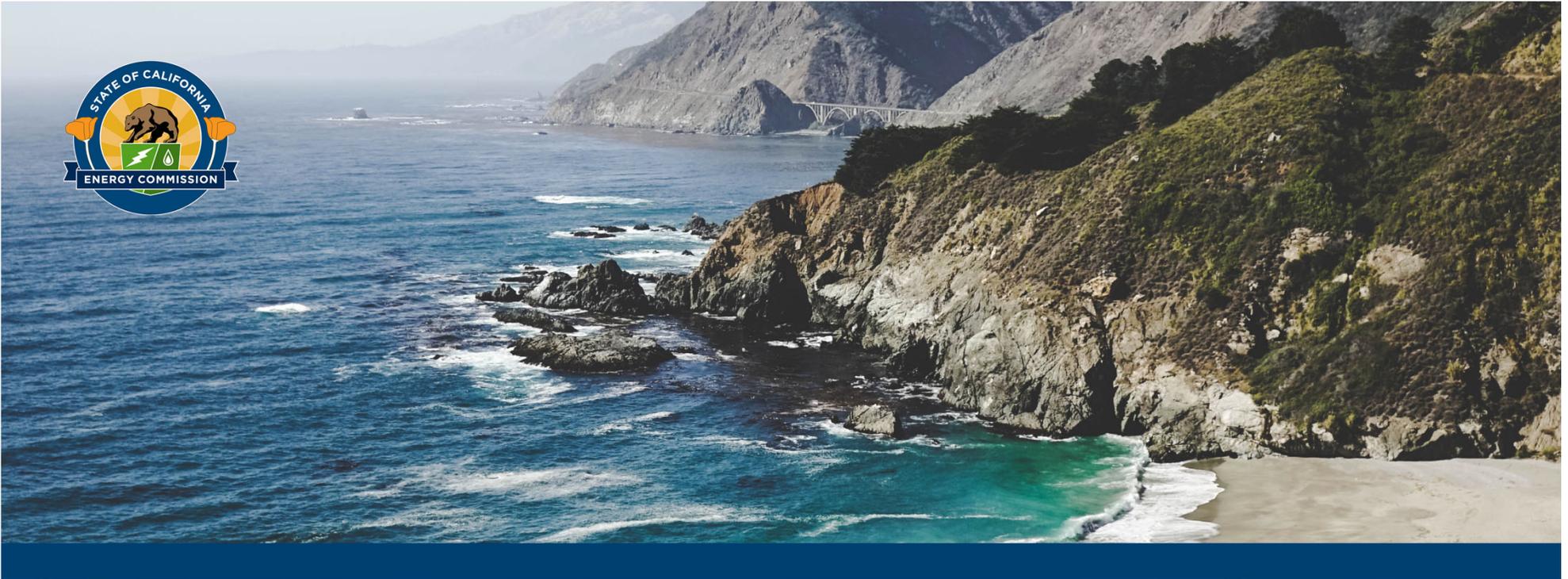


DOCKETED	
Docket Number:	22-IEPR-05
Project Title:	Emerging Topics
TN #:	243609
Document Title:	Presentation - Green Hydrogen Research, Development and Deployment
Description:	1C.1 Rizaldo Aldas CEC
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/20/2022 12:32:43 PM
Docketed Date:	6/20/2022



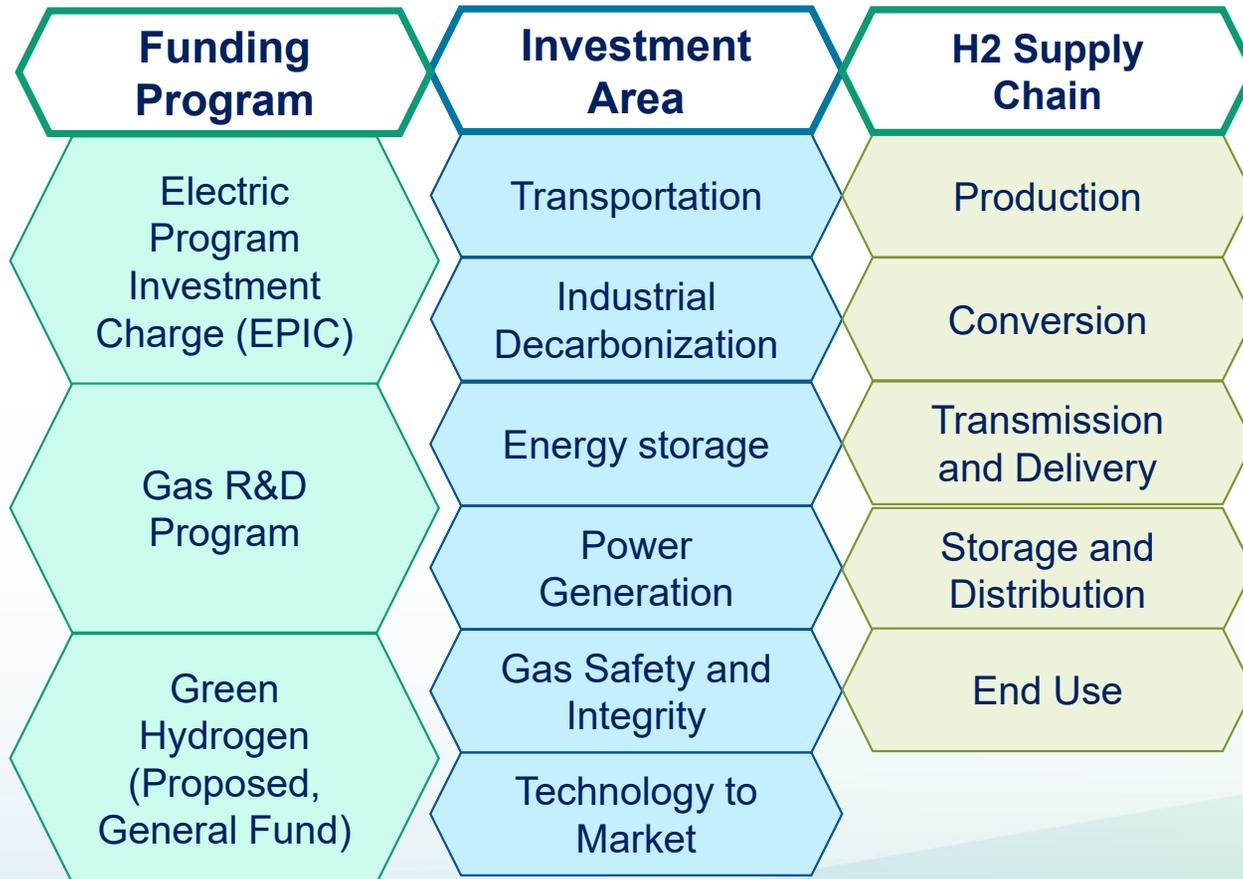
IEPR Commissioner Workshop on Role of Hydrogen in California's Clean Energy Future

Green Hydrogen Research, Development and Deployment

Rizaldo Aldas
Energy Research and Development Division
June 21, 2022



Green Hydrogen



- Hydrogen programs advance key technology sectors and stages of the supply chain
- Scientific and techno-economic analyses, roadmap, technology development, pilot tests, demonstration and deployment



Green Hydrogen: EPIC and Gas R&D Programs

☐ Over \$45M in active and planned investments

Production, Conveyance and Storage

- Hydrogen production
- Blending into existing gas system
- Large-volume hydrogen storage
- Mobile energy storage for emergency power



End Use

- Fuel cells transportation demonstration
- Refueling infrastructure for heavy transport
- Industrial clusters and end uses
- Power generation and emissions control



Green Hydrogen Program: General Fund (Proposed)

- \$100 M fund to advance the state of technology and demonstrate scaling of electrolyzers
- Onsite production and local storage or use of green hydrogen
- Large-scale production, central storage and transport of green hydrogen
- Leverage federal fund on hydrogen R&D and regional hub
- Workshop in Fall 2022

