## 22Q1 CRITICAL INFRASTRUCTURE, EQUITY & RESILIENCE TASK FORCE SUMMARY

The.

# OBSTACLE



#### AEG CHICAGO 22Q1 SELECTED OBSTACLE

REGARDING CRITICAL INFRASTRUCTURE, EQUITY & RESILIENCE, TO ACHIEVE CHICAGO'S CARBON & EQUITY GOALS, A CRITICAL OBSTACLE TO OVERCOME IS ...

Bringing diverse stakeholders together to develop the leading hydrogen hub proposal & attract federal dollars that will establish a hydrogen infrastructure network to advance the climate leadership of the state.



- COLLEEN WRIGHT VICE PRESIDENT, CORPORATE STRATEGY



## SOLUTION





AEG CHICAGO 22Q1 STAKEHOLDER CHALLENGE: CRITICAL INFRASTRUCTURE, EQUITY & RESILIENCE

#### **SELECTED 12 MONTH SOLUTION:**

#### H2 FOA Ready!

M1: Develop a GIS Storymap to ID and recruit relevant stakeholders
M2: Facilitate round table to gain commitments from private and public stakeholders
M3: Develop analysis of specific environmental and equity benefits of proposal

# 21Q4/22Q1 CHICAGO HYDROGEN **HUB TASK FORCE UPDATES:**

- Held & recorded Midwest Hydrogen Panel
- Drafting H2 "Roadmap" infographic
- Published whitepapers in Q1 & Q2: "Midwest **Regional Hydrogen Economy**" and "Global Benchmarking"
- Connected hub with Bright Star Community Outreach for workforce development
- Worked with Chicago Metropolitan Agency for Planning (CMAP) to create GIS map with relevant overlapping layers to ID potential geographies.



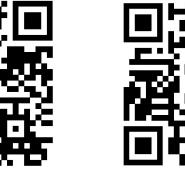
Panel Recording



Q1 White Paper



Q2 White Paper



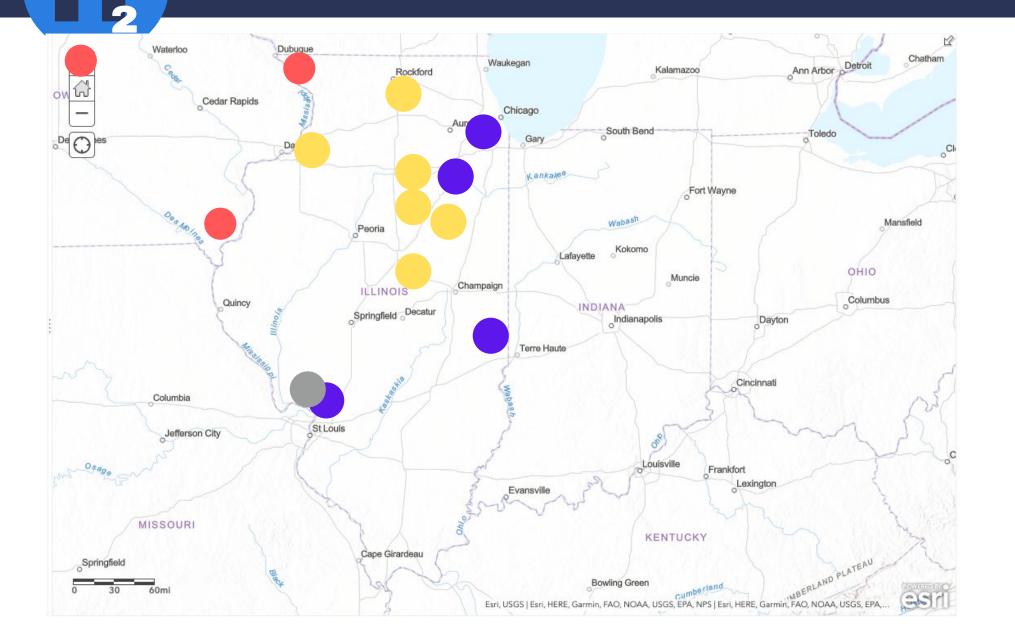




**Advanced Energy Group #AEGChicago** 

### HYDROGEN ROADMAP FOR MIDWEST REGION







## **HYDROGEN ROADMAP FOR MIDWEST REGION**





## **CHALLENGES**

## **NEXT STEPS**

PERCEIVED SAFETY CONCERNS AND **RELIABLE LOW AND ZERO EMISSION POWER COMMUNITY OUTREACH ON** LIMITED AWARENESS AND PUBLIC **GENERATION & LOCAL WATER RESOURCES H2 FACTS AND SAFETY** PERCEPTION ABOUT THE BENEFITS OF H2 ++++ MAJOR TRANSPORTATION NETWORKS MAJOR INFRASTRUCTURE GAPS FOR SOME ENGAGEMENT WITH END-USERS TO UNDERSTAND 2 USE CASES (TRANSPORTATION, STORAGE, **ADVANTAGES OF SWITCHING TO H2 FUEL FOR INCLUDING RAIL, OVER-ROAD, AND** TRANSPORTS AND END USE) **CLEAN FUTURE ENERGY** WATERWAY PORTS LACK OF REGULATORY SUPPORT FOR **DEVELOP LOCAL AND REGIONAL** ≡® ~~=

STRONG INDUSTRIAL **INFRASTRUCTURE, INCLUDING EXISTING INDUSTRIAL H2 USERS** 



EDUCATED WORKFORCE WHO ARE RELATIVELY SKILLED IN THIS TYPE OF ENERGY

**EXISTING FRAMEWORK FOR REGIONAL COOPERATION ACROSS GOVERNMENTAL,** ENVIRONMENTAL, AND LABOR GROUPS EXEMPLIFIED BY THE 2021 CLEAN ENERGY JOBS ACT





**NEED FOR MORE TECHNICAL TRAINING & PEOPLE** 

WEAK VENTURE CAPITAL ECOSYSTEM **RELATED TO ENERGY PROJECTS** 

DIFFICULT ENVIRONMENT TO FUND PROJECTS INTO THE FULL ECONOMY

END USERS ARE UNSURE OF VIABILITY FOR

HYDROGEN AS MAJOR FUEL SOURCE

**PIPELINE & GENERATION** 

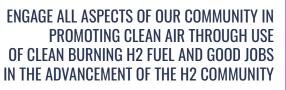


SUPPORT PROJECTS THROUGHOUT THE VALUE CHAIN TO HELP THE TRANSITION TO H2 BASED FUEL ECONOMY IN OUR REGION

**REGULATORY FRAMEWORK FOR H2** 

PIPELINE DELIVERY AND ONSITE USAGE





ENGAGE WITH EDUCATIONAL AND LABOR TRAINING TO

PREPARE OUR REGION WORKERS FOR THE H2 FUTURE