



PURPOSE

HETI's Industrial Decarbonization working group is enabling Houston to lead the world in pathways to decarbonize high-emitting and hard-to-abate sectors that deliver low-carbon energy and products affordably and reliably, drive sustainable economic growth, and create skilled jobs across the Houston region.

MEETING THE CHALLENGE

- Industrial processes are 20-30% of all US emissions, decarbonizing high-emitting and hard-to-abate industrial processes is complex and fragmented
- Multiple technologies and solutions required to reduce emissions while delivering low-carbon energy and products affordably and reliably
- DOE announced funding opportunities to accelerate emissions reduction and position US as a global leader in decarbonization of industrial sectors
- Industrial decarbonization can have greatest impact in petroleum refining, chemicals, iron & steel, cement, and food & beverage sectors
- Houston is home to many of these industries, and has an opportunity to lead the world in industrial decarbonization pathways that create positive environmental and economic impact for the community

STRATEGY

Goals & Priorities:

- 1 Data & Reporting:** building knowledge and consistency in data required for effective emissions measurement, reporting, and optimized emissions reduction goals
- 2 Carbon Market & Value Chain Creation:** realizing value from decarbonization investments and products through enabling carbon market maturity and value chain creation with economic certainty and alignment of incentives
- 3 Supply Chain Leadership:** developing supply chain leadership needed to align supply and demand across industry
- 4 Technology & Policy Levers:** levers to move large decarbonization projects forward through advancing innovation & technology and advocating for policy & regulatory clarity and consistency

Actions & Objectives:

- 1 Measure & Assess:** benchmarking to establish GHG emissions baseline for Houston region and assess progress on emissions reduction goals
- 2 Collate & Disseminate:** case examples of decarbonization successes, facilitated knowledge sharing, and developing the "case for change" at all levels (asset, product, corporate)
- 3 Inspire & Innovate:** develop unified decarbonization vision for the Houston region, amplify key success stories from Houston, promote innovation ecosystem
- 4 Transform:** convene key industry players and partners to identify opportunities and facilitate cooperation, advance decarbonization project development, and accelerate value chain creation

HOW THE WORKING GROUP OPERATES

Committee of HETI members to guide the working group's efforts with 1:1 engagements of key stakeholders on their decarbonization commitments, progress, and priorities

Strategic partnership with Mission Possible Partnership and RMI, supported by the Bezos Earth Fund, for broad decarbonization and accelerated development and deployment of a clean industrial hub in Houston

Roundtable series convening industrial leaders to socialize the working group's decarbonization roadmap and connect problems with solutions across key sectors and emerging themes

COMMITTEE

Baker Hughes | Bechtel | bp | Calpine | Chevron | Dow | ExxonMobil | Hess | NRG | Occidental Petroleum | SLB | Shell | Sodexo | Vopak North America | Wood

TIMELINE

2022

Spring 2022: Initiated from HETI Steering Committee members seeking to provide a forum to accelerate decarbonization of industry

Summer 2022: Committee formed from subset of HETI members

September 2022: Roundtable kickoff event to engage HETI and Partnership members on decarbonization challenges and opportunities

December 2022: Formed strategic partnership with Mission Possible Partnership to decarbonize heavy industry in Houston through accelerated development and deployment of a regional clean industrial hub

2023

2023: Developing Decarbonization Roadmap to define opportunities for long-term decarbonization pathways across the Houston Region

Fall 2023: Convening roundtable sessions on highest priority industry decarbonization levers to enable long-term emissions reduction pathways

IF SUCCESSFUL, HOUSTON IS...

A recognized global leader in industrial decarbonization, creating an environment to attract and grow companies and talent in a thriving energy innovation ecosystem

Catalyzing the development and deployment of several key industrial decarbonization projects, including low-carbon hydrogen, CCUS, electrification, and production and use of low-carbon fuels

An influential voice on decarbonization of industrial processes

A model for urban sustainability

HOW CAN BUSINESSES AND STAKEHOLDERS ENGAGE?

We welcome companies to learn more about HETI's work and progress and join other Houston area companies that have signed on to a letter of support for HETI at Houston.org/energy-transition. To learn more about HETI's Industrial Decarbonization Working Group contact kgautreau@houston.org.

ABOUT THE HOUSTON ENERGY TRANSITION INITIATIVE

The Houston Energy Transition Initiative (HETI) is an initiative of the Greater Houston Partnership, dedicated to strengthening Houston's position as the Energy Capital of the World. HETI builds on the best of traditional energy skills and systems to leverage Houston's industry leadership to accelerate global solutions for an energy-abundant, low-carbon future. HETI is a coalition of industry, academic and community partners working together to ensure the long-term economic competitiveness and advancement of the Houston region as leaders of the global energy transition. HETI is committed to strengthening Houston's position as a leader in this effort by convening key leaders, advocating for sound public policy and attracting innovative companies who share our vision.

