



# EQUITY AND ENVIRONMENTAL JUSTICE IN THE ENERGY TRANSITION

29 SEPTEMBER 2022

GREATER HOUSTON  
**PARTNERSHIP**

“

Houston has the responsibility—and an opportunity—to lead the world towards a lower carbon future.

”

**BOBBY TUDOR**

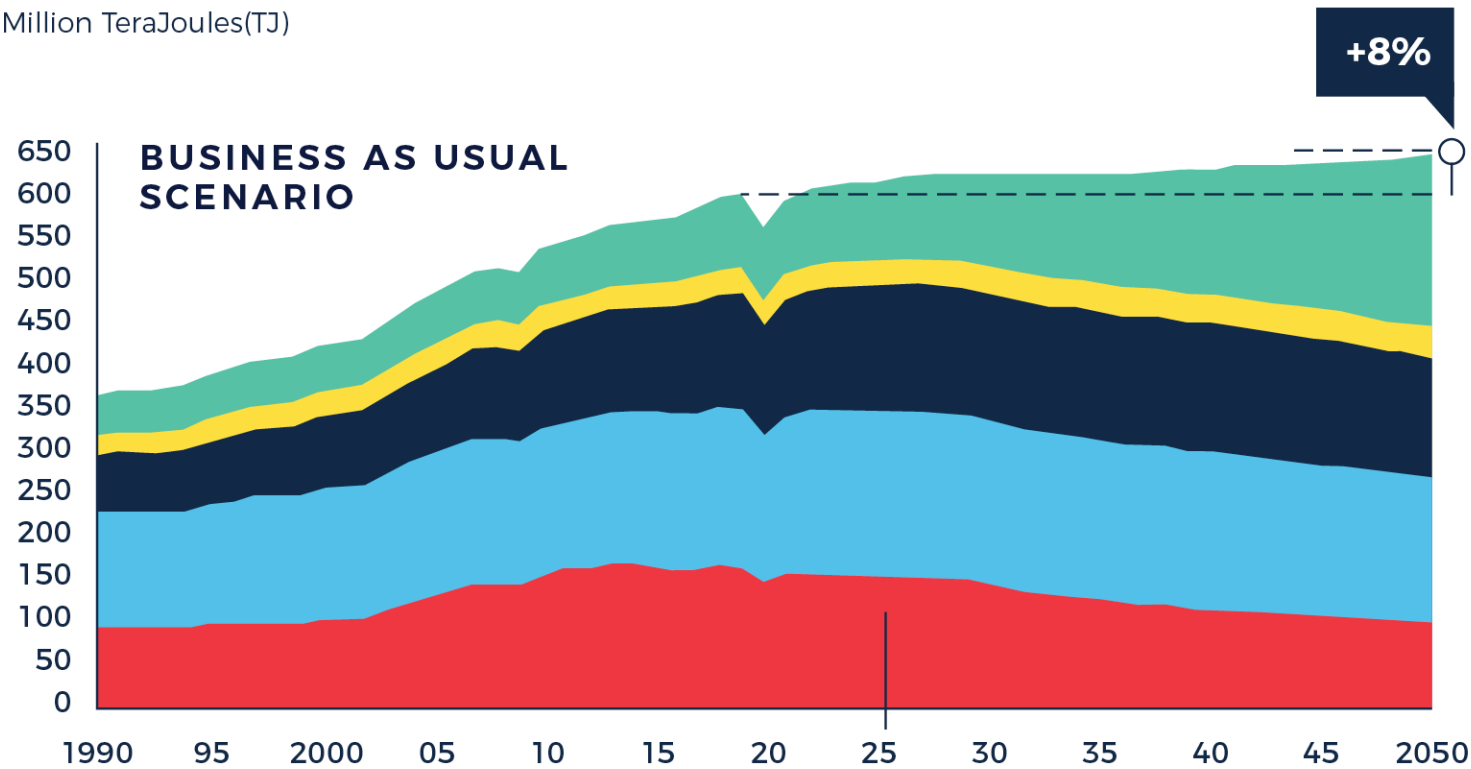
2020 BOARD CHAIR, GREATER HOUSTON PARTNERSHIP

JANUARY 2020

# THE ENERGY TRANSITION IS EXPECTED TO CREATE MASSIVE CHANGES IN THE ENERGY ECONOMY

## Global Primary Demand Per Fuel

Million TeraJoules(TJ)

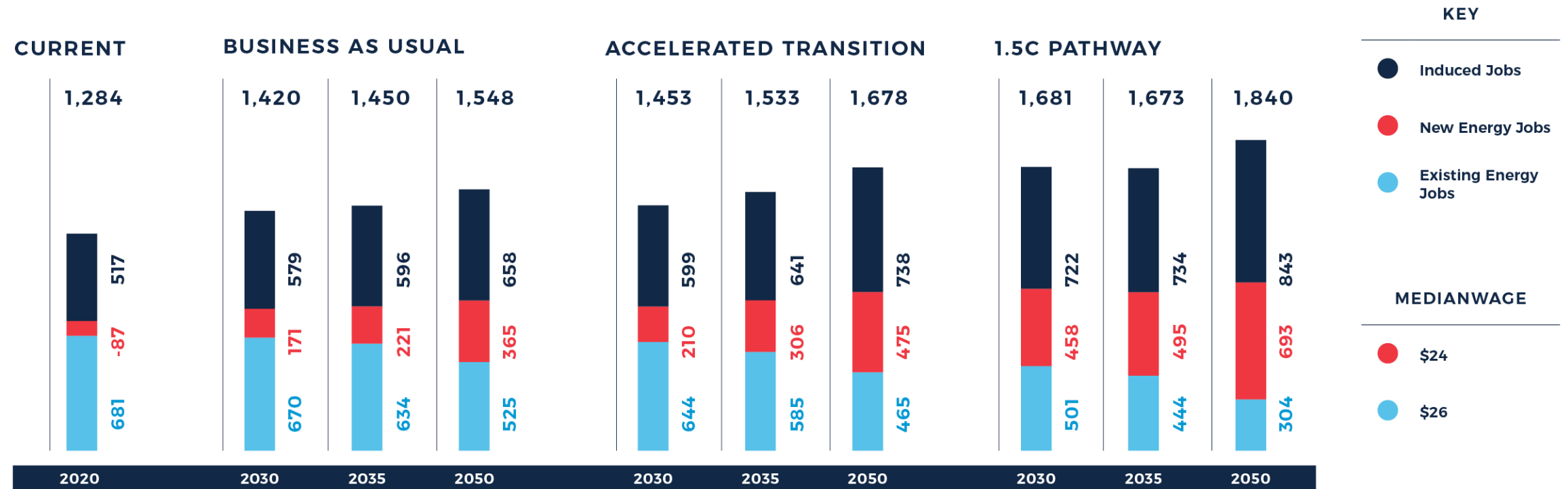


**Share of renewables will more than double by 2050**

	SHARE IN 2019	SHARE IN 2050
RENEWABLES	14%	31%
NUCLEAR	5%	6%
NATURAL GAS	23%	22%
OIL	31%	26%
COAL	27%	15%

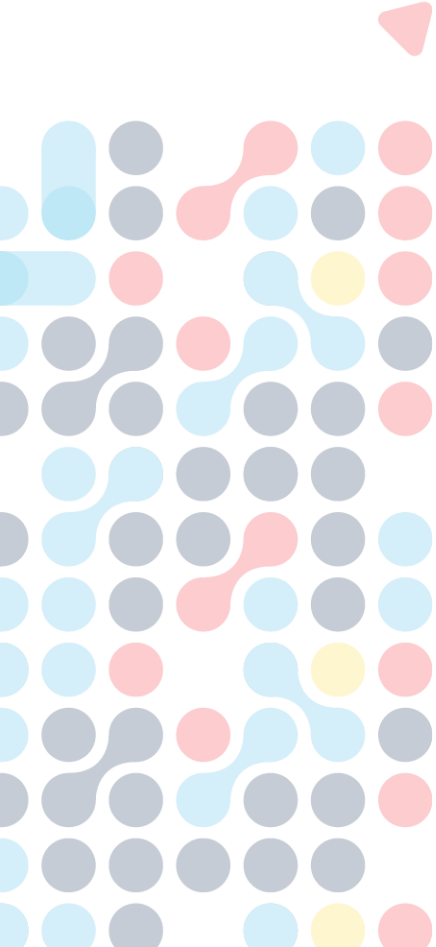
# WITH DECISIVE ACTION, HOUSTON COULD GAIN 560,000 JOBS

Houston Energy Employment Across Scenarios (Thousand Direct and Indirect Jobs)



Source: McKinsey analysis; E2 "Clean Jobs, Better Jobs" report (October 2020)

# VISION



Leverage  
Houston's energy  
leadership to  
accelerate global  
solutions for a  
low-carbon future.

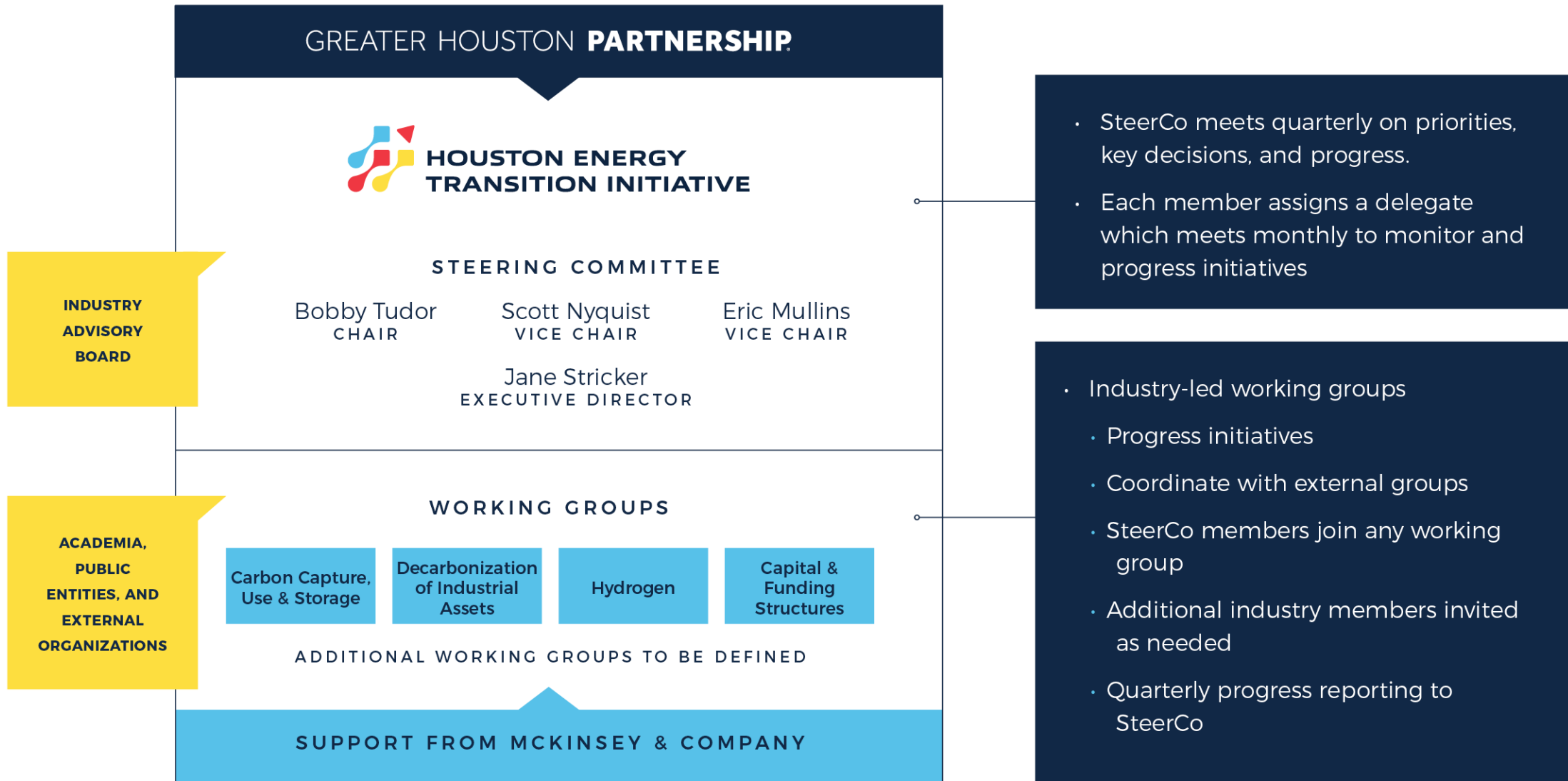
**Drive sustainable and equitable economic growth in the Greater Houston region** through a portfolio of technology, policy, and market initiatives that embrace and create value from the world's transition to low-carbon energy systems.

Delivering on this vision requires us to **build upon our history of leadership in the energy and chemical industries, provide new opportunities to our people, and leverage our assets and existing expertise, while creating conditions to attract new and innovative talent and capital.**

A successful effort would result in **economic growth and positive impact on the environment, thereby placing Houston as the leading hub of energy and clean tech innovation.**

# STRUCTURE

**Attributes:** Light touch governance; executed through the Partnership; resources/participation tailored to individual value-chain initiatives; consistent communication among ecosystem players; fast start; phased growth



## KEY WORKSTREAMS - OBJECTIVES



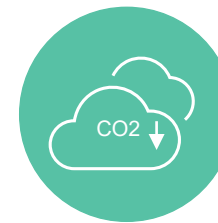
### Hydrogen

- Regional roadmap
- Value-chain development
- Research and funding opportunities



### CCUS

- Engaging stakeholders
- Shape and align advocacy
- Commercialization and funding opportunities



### Decarbonization

- Unified narrative
- Best-practice sharing
- Core operational activities
- Measurement and reporting
- Innovation



### Capital Formation

- Level and flow of capital needed for the energy transition
- Houston's leadership in energy transition financing

## CROSS-CUTTING INITIATIVES

**1. Communications and branding:** Develop content and creative to tell Houston's energy transition story

**2. Climate equity:** Develop a climate equity framework that includes community-based participatory research, a programmatic agenda to address issues identified, and metrics to assess progress

**3. Thought leadership:** Participate in key events to deliver HETI message, promote HETI member events, host annual Future of Global Energy Conference

**4. Innovation ecosystem:** Promote Houston innovation ecosystem, support Tex-E, support federal/state grant funding opportunities (e.g., NSF engines)

**5. Policy:** Assess energy transition policy landscape, identify areas of industry alignment, provide input to Public Policy agenda

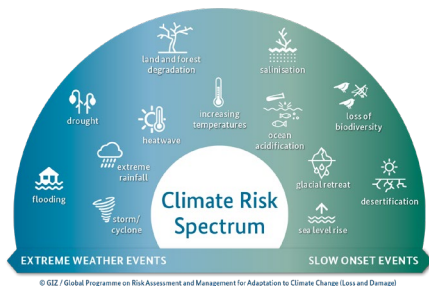


## ENVIRONMENTAL JUSTICE AND CLIMATE EQUITY

- **Environmental Justice** – the fair treatment and meaningful involvement of all people, regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations and policies (US EPA)
- **Climate Equity** – ensures the just distribution of the benefits of climate protection efforts and alleviates unequal burdens created by climate change
- The impacts from climate change pose the **greatest threat** to those least responsible for it and those **most vulnerable** to its effects
- The energy transition presents an **opportunity**, and a responsibility, for industry to **address historic inequities** as new low-carbon energy solutions are developed and deployed

## ADDRESSING ISSUES OF ENVIRONMENTAL JUSTICE & EQUITY

- **Climate Risk** – climate & flood adaptation and resilience to shocks and stressors, including urban heat island effect
- **Energy Burden** – access and affordability
- **Environmental Hazards** – quality of air, quality of water
- **Public Health** – challenges and opportunities, including issues beyond energy/pollution (e.g., food deserts)
- **Workforce Development** – preparation for and access to new energy jobs



## DEVELOPING A CLIMATE EQUITY STRATEGY

**ROADMAP: EXECUTIVE SUMMARY;** MAPS CLIMATE EQUITY STRATEGY, KEY DECISION POINTS, STAKEHOLDERS AND ACTIVITIES



**FRAMEWORK: CLIMATE EQUITY STRATEGY;** DETAILS PROCESSES TO **CO-CREATE** SOLUTIONS WITH CORPORATIONS AND COMMUNITIES



# CLIMATE EQUITY: HOW HETI IS PROGRESSING

## Developing a perspective on three questions...



What are the **baseline/current community engagement best practices** for the energy transition?

- Case Study Analysis
- Confidential 1:1 Research with Companies
- Federal, state and local requirements (e.g., EJ 40)



What **activities for community engagement** are best to bridge the gap between corporate climate action and community priorities?



What processes for **community engagement** would improve climate equity for the **energy transition**?



## ... and share a vision for how the Energy Transition can improve the quality of life for all members of society

Get underneath the **concerns and opportunities** associated with the energy transition...

- Identify transformative energy transition projects that have been announced publicly to **identify major opportunities for community engagement**
- Conduct **confidential 1:1 interviews with industry members and project developers** on community engagement current processes and best practices
- **Identify with communities the opportunities** for improved community engagement and effective two-way dialogue
- **Publish a climate equity framework** to document findings and share perspectives on **how Houston can lead the energy transition with equitable community engagement and co-created solutions**