

ANNOUNCEMENTS

- **Mute Microphone** – in order to prevent background noise that disturbs the meeting, if you aren't talking, please mute your microphone or phone.
- **Chat Box** – if you aren't being heard, please use the chat box or raise your hand to ask a question.
- **Recording Meeting** – we will record and post the board meetings (www.ctgreenbank.com/hydrogentaskforce), can also access meeting dates and dial-in information through Secretary of State.
- **State Your Name** – for those talking, please state your name for the record.



Special Act 22-8

Task Force to Study Hydrogen Power

July 12, 2022

Online Meeting

Welcome

Green Hydrogen Room – Dr. Baker Conference Room



Agenda

- Welcome and Launch of Task Force – 5 min
- Charge from the Leadership of the E&T Committee – 10 min
- Task Force – Member Introductions – 15-30 min
- Special Act 22-8 – Overview – 15 min
- Process – Ground Rules, Structure, Logistics, and Timeline – 15 min
- Hydrogen 101 – An Introduction by Strategen – 30 min
- Public Comments – 15-30 min

Charge from the Leadership of the Energy & Technology Committee



Charge from the Leadership

Energy and Technology Committee



Representative
David Arconti
109th District
(Danbury)
Co-Chair



Representative
Charles Ferraro
117th District
(Orange, Milford, West Haven)
Ranking Member

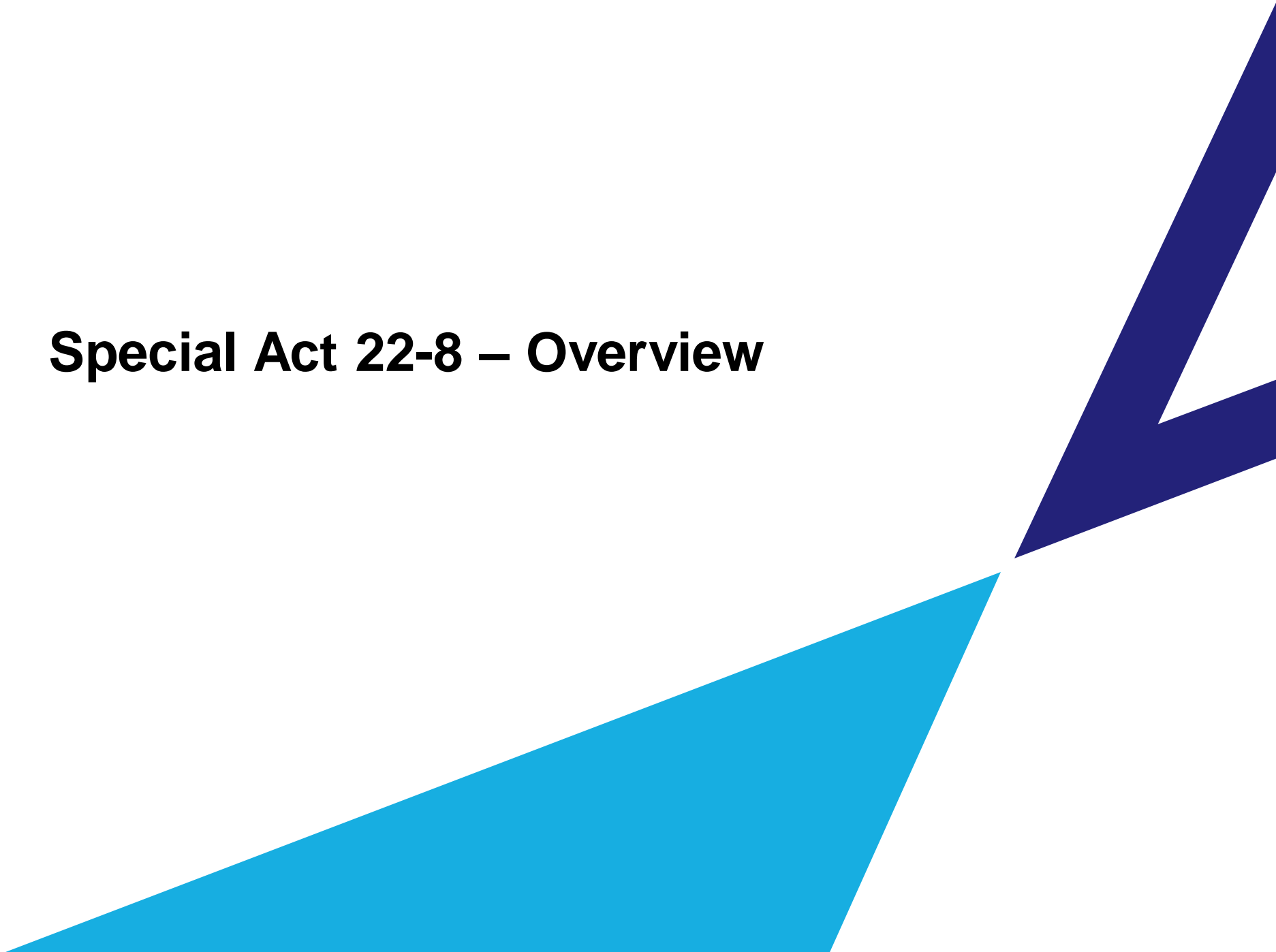


Senator
Paul Formica
20th District
(Bozrah, East Lyme, Old Lyme,
New London, Salem, Waterford,
and portions of Montville and
Old Saybrook)
Ranking Member

Task Force – Member Introductions



Special Act 22-8 – Overview



Special Act 22-8

Background

- **Passage** – unanimously bipartisan (May 10, 2022) and signed by the Governor (May 23, 2022)
- **Overview** – establishes a task force to study hydrogen-fueled energy in the state's economy and energy infrastructure (i.e., first meeting no later than 60 days from passage)
- **Composition** – identifies ex officio and political appointed members to the task force (i.e., no later than 30 days from passage)
- **Deliverable** – not later than January 15, 2023, the task force shall submit a report on its findings and recommendations to the Energy & Technology Committee

Task Force

Ex Officio Members

Appointer	Organization	Name	Title
Ex Officio	DEEP	Katie Dykes	Commissioner
Ex Officio	PURA	Marissa Gillett	Chair
Ex Officio	UCONN	Ugur Pasaogullari	Professor (Designee)
Ex Officio	CCAT	Joel Rinebold	Director
Ex Officio (Chair)	CT Green Bank	Bryan Garcia	President and CEO
Ex Officio (Co-Chair)	CT Green Bank	Sara Harari	Associate Director

Task Force

Political Appointee Members

Appointer	Organization	Name	Area of Expertise
President Pro Tempore			<ul style="list-style-type: none"> ▪ EDC (Electric – 17-) ▪ CT H2 Manufacturer ▪ ENGO (RE Advocate)
Majority Leader Senate			<ul style="list-style-type: none"> ▪ Building Trades
Minority Leader Senate			<ul style="list-style-type: none"> ▪ EDC (Electric – 17-) ▪ EDC (Gas – 17-) ▪ ENGO (RE Advocate) ▪ CHFCC
Speaker of House	<ul style="list-style-type: none"> ▪ Eversource ▪ Nel Hydrogen 	<ul style="list-style-type: none"> ▪ Digaunto Chatterjee ▪ Katherine Ayers 	<ul style="list-style-type: none"> ▪ EDC (Electric – 18+) ▪ CT H2 Manufacturer
Majority Leader House			<ul style="list-style-type: none"> ▪ EDC (Gas – 18+) ▪ ENGO (RE Advocate) ▪ CHFCC
Minority Leader House	<ul style="list-style-type: none"> ▪ Dominion Energy ▪ Infinity Fuel 	<ul style="list-style-type: none"> ▪ Mary Nuara ▪ William Smith 	<ul style="list-style-type: none"> ▪ EDC (Electric – 18+) ▪ Nuclear Power ▪ CT H2 Manufacturer

Special Act 22-8

Areas to Address

Such study **shall** include, but **need not be limited to**:

1. A review of regulations and legislation needed to guide the development and achievement of economies of scale for the hydrogen ecosystem in the state
2. Recommendations for workforce initiatives to prepare the state's workforce for hydrogen-fueled energy-related jobs
3. An examination of how to position the state to take advantage of competitive incentives and programs created by the federal Infrastructure Investment and Jobs Act
4. Recommendations for funding and tax preferences for building hydrogen-fueled energy facilities at brownfield sites through the Targeted Brownfield Development Loan program*
5. Recommendations regarding funding sources for developing hydrogen-fueled energy programs and infrastructure
6. An examination of the sources of potential clean hydrogen, including, but not limited to, wind, solar, biogas and nuclear
7. Recommendations for potential end uses of hydrogen-fueled energy

Process – Ground Rules, Structure, Logistics, and Timeline



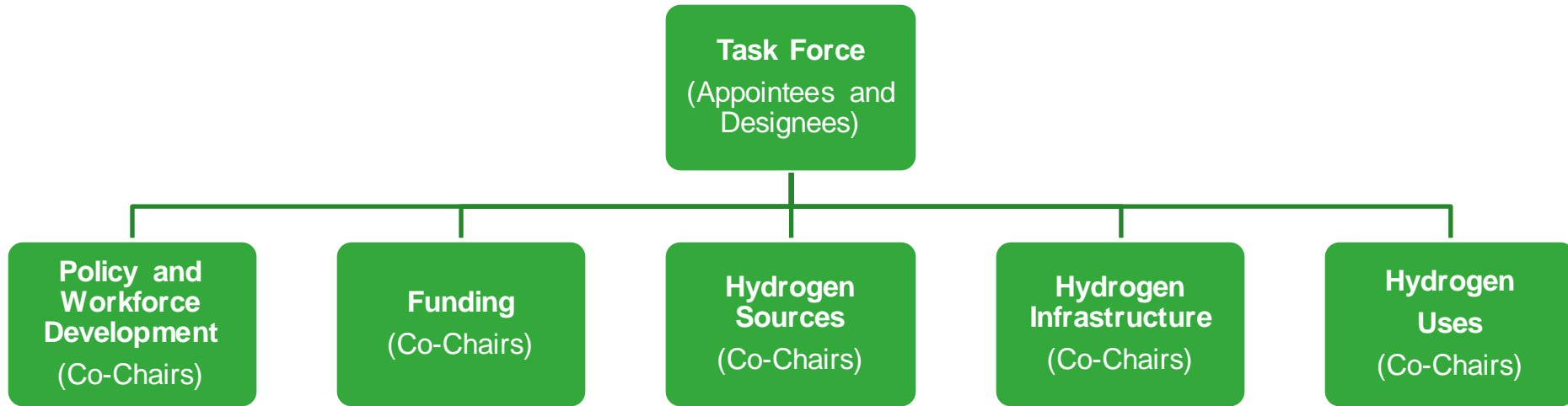
Ground Rules

Task Force Meetings

- **Agenda** – let's honor the agenda
- **Questions** – use the chat feature throughout the event – please share and/or ask questions which contribute to a meaningful discussion.
- **Recordings** – Meeting will be recorded. Meeting recording and materials (e.g., agenda, minutes, reports) will be made available online at www.ctgreenbank.com/hydrogentaskforce

Structure

Task Force and Working Groups (“WG”)



- **Working Groups** – to begin following the August 9th meeting
- **Cross-Cutting Issues**
 - **Environmental Justice** – within the “Policy and Workforce Development” WG to establish objective(s), but applies to all WGs
 - **Supply Chain** – across “Sources,” “Infrastructure,” and “Uses” WGs
 - **Safety** – across “Sources,” “Infrastructure,” and “Uses” WGs
 - **R&D** – across “Sources,” “Infrastructure,” and “Uses” WGs
 - **Insurance** – within the “Policy and Workforce Development” WG, but applies to all WGs

Working Groups and Areas of Responsibility

Policy and Workforce Development

- **Co-Chairs** – Chair Marissa Gillett (PURA) and **TBD**
 1. A review of regulations and legislation needed to guide the development and achievement of economies of scale for the hydrogen ecosystem in the state
 2. Recommendations for workforce initiatives to prepare the state's workforce for hydrogen-fueled energy-related jobs
- **Additional** – environmental justice, insurance

Working Groups and Areas of Responsibility

Funding

- **Co-Chairs** – TBD
- 3. An examination of how to position the state to take advantage of competitive incentives and programs created by the federal Infrastructure Investment and Jobs Act
- 4. Recommendations for funding and tax preferences for building hydrogen-fueled energy facilities at brownfield sites through the Targeted Brownfield Development Loan program*
- 5. Recommendations regarding funding sources for developing hydrogen-fueled energy programs and infrastructure
- **Additional** – environmental justice, insurance

Working Groups and Areas of Responsibility

Hydrogen Sources

- **Co-Chairs** – Ugur Pasaogullari (UCONN) and Kathy Ayers (Nel Hydrogen)
- 6. An examination of the sources of potential clean hydrogen, including, but not limited to, wind, solar, biogas and nuclear
- **Additional** – supply chain, safety, R&D, environmental justice, and insurance

Working Groups and Areas of Responsibility

Hydrogen Infrastructure

- **Co-Chairs** – Sara Harari (Green Bank) and **TBD**
- **Additional** – supply chain, safety, R&D, and environmental justice, and insurance

Working Groups and Areas of Responsibility

Hydrogen Uses

- **Co-Chairs** – Joel Rinebold (CCAT) and **TBD**
- 7. Recommendations for potential end uses of hydrogen-fueled energy
- **Additional** – supply chain, safety, R&D, environmental justice, and insurance

Task Force & Working Group

E⁴ Objectives

- **Educate** – inform Task Force, Working Groups, and Stakeholders about the science and markets for clean (green) hydrogen (i.e., from 101 through 301) nationally, regionally, and locally
- **Engage** – facilitate interaction amongst Task Force and Working Group members, including Public engagement, and tours of various facilities around the state
- **Enable** – Working Groups to make recommendations for Task Force consideration within final report to the Energy & Technology Committee
- **Environmental Justice** – Task Force and Working Groups must include voices from the EJ community to go from inform and consult to collaborate and empower.

Educate

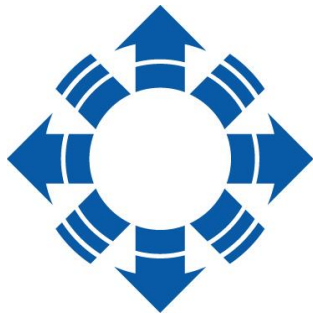
Seeking Federal Laboratory Involvement



**Sandia
National
Laboratories**



Pacific Northwest
NATIONAL LABORATORY



NREL



BERKELEY LAB
Lawrence Berkeley National Laboratory

Engage

Seeking to Organize Tours of Various Facilities



Task Force Meetings

Second Tuesday of Every Month from 10:00 to Noon

July 12

- Welcome and Launch – Charge from the E&T Committee
- Task Force Introductions
- Special Act 22-8 Overview
- Ground Rules, Logistics, and Process
- Hydrogen (H₂) Introduction and Market Overview – Hydrogen 101 from Strategen

August 9

- Environmental and Climate Justice Fireside Chat
- Working Group – Composition and Task Review
- H₂ in Connecticut – Funding and the Infrastructure Investments and Jobs Act
- H₂ Primer Sessions #1 – Sources – Hydrogen 201 from Federal Lab
- Tour of the Innovation Partnership Building at UCONN and C2E2 in Storrs

September
13

- Environmental and Climate Justice Fireside Chat
- Working Group – Report Outs
- H₂ in Connecticut – Policies and Programs
- H₂ Primer Sessions #2 – Uses – Hydrogen 201 from Federal Lab
- **Tour of Facility – TBD**

Task Force Meetings (cont'd)

Second Tuesday of Every Month from 10:00 to Noon

October 11

- Environmental and Climate Justice Fireside Chat
- Working Group Report Outs
- H₂ in Connecticut – Regional Hydrogen Hub Update
- H₂ Primer Sessions #3 – Transportation and Storage – Hydrogen 301 from Federal Lab
- Tour of Facility – TBD

November 8

- Working Group Findings and Recommendations
- H₂ Primer Sessions #4 – Safety – Hydrogen 301 from Federal Lab
- Tour of Facility – TBD

December 13

- Task Force Refining and Finalizing Recommendations
- Tour of Facility – TBD

January 10

- Task Force Planning for Report Submission

Next Meeting – August 9, 2022

UConn Innovation Partnership Building

Dial-In

(860) 924-7736
Access Code: 380 363
218#

Webinar

[Click here to join the meeting](#)
Meeting ID: 217 218 436
862 Passcode: CGxhZ6

In Person

UConn
Innovation Partnership
Building
159 Discovery Drive
Storrs, CT 06033

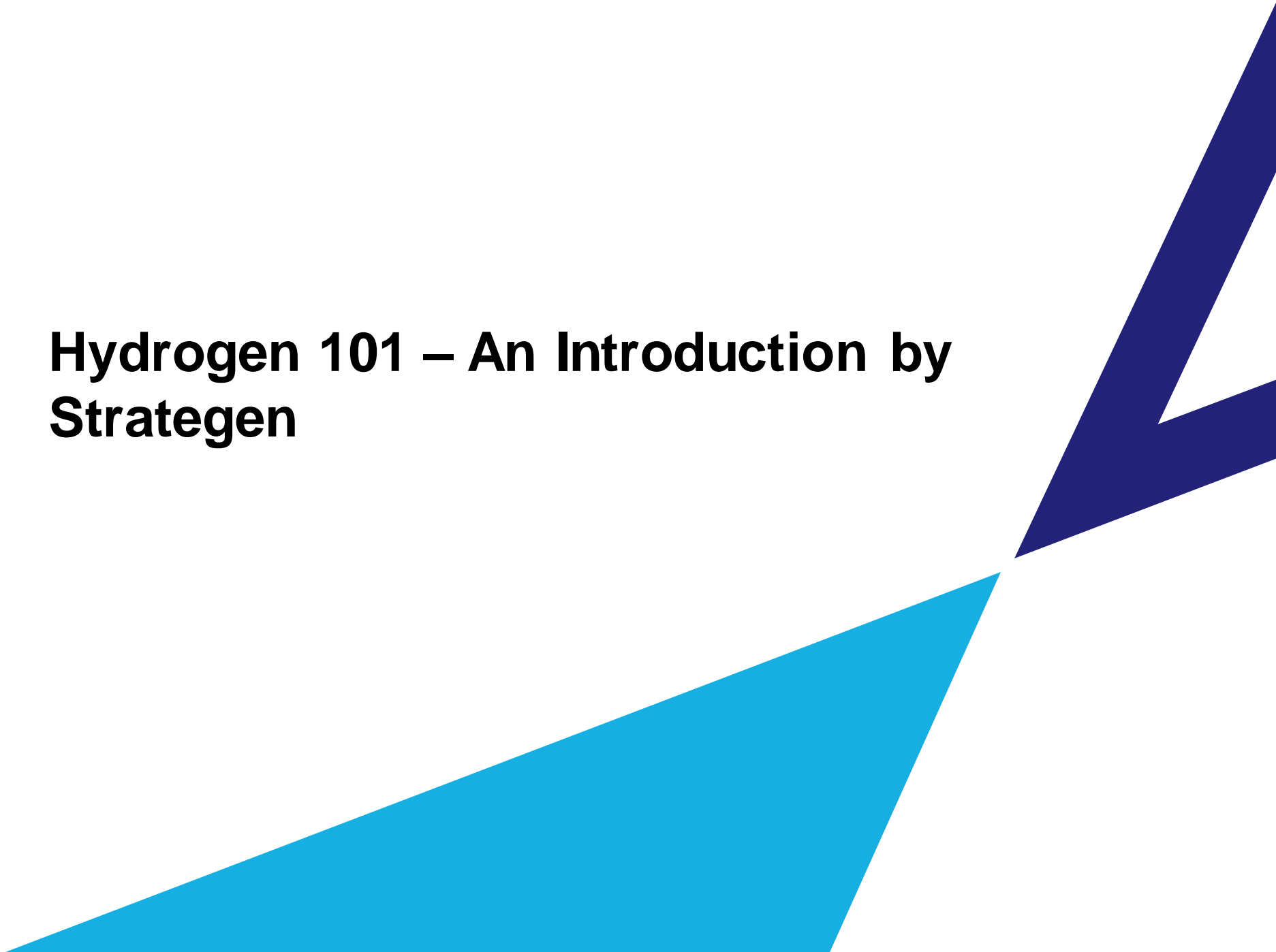


For access to Task Force materials, visit:

www.ctgreenbank.com/hydrogentaskforce



Hydrogen 101 – An Introduction by Strategen



Introduction to Strategen

Green Hydrogen 101



Erin Childs
Director



Nick Connell
Director

Technical Assistance and Coordination Support
for Task Force and Working Groups

Public Comments



Green Bonds US



Thank You

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www.greenlibertybonds.com