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ABOUT ADVANCECT



OUR MISSION

AdvanceCT strives to build a place where business, government, higher education and nonprofits come together to implement high impact and inclusive economic development solutions to advance the overall competitiveness of Connecticut.

ECONOMIC DEVELOPMENT

AdvanceCT is a private nonprofit corporation that drives job creation and new capital investment in Connecticut through high-impact economic development including business attraction, retention, and expansion.

WHAT WE DO

AdvanceCT works in close cooperation with the Connecticut Department of Economic and Community Development (DECD), the private sector, and various state, regional, and local partners to promote Connecticut as a place to do business. Our team is dedicated to ensuring that industries expand, residents thrive, and businesses feel at home in our state.

LEARN MORE AT ADVANCECT.ORG



A NATIONAL LEADER IN CLEAN ENERGY

CONNECTICUT IS POISED FOR SUCCESS

PORTS AND PHYSICAL INFRASTRUCTURE

LOCAL, REGIONAL AND GLOBAL SUPPLY CHAIN

SKILLED WORKFORCE

- Strategically located along the Northeastern coast
- A thriving, robust, and experienced supply chain operating in a 90-mile radius
- World-class education and skilled workforce
- Home to 3 deep water ports and a multitude of small harbors, rail lines, and interstate highways crisscrossing the state

Connecticut plans to power 100% of electricity from zero-carbon sources by 2040.

Connecticut is committed to deploying up to 2,000 MW of offshore wind energy, the equivalent to 30% of the state load – **enough to power 1 million homes.**

SOURCE: CT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 2019



The **largest solar farm** in New England¹



The first EV charging station company that is both made & assembled in the U.S.⁴



The nation's first ever

Green Bank²



State-run Clean Energy Procurement Plan with **100% zero carbon** goal⁵



4th best state for energy consumption per dollar of real GSP³



7th highest share of electricity generated from **nuclear power**⁶

SOURCE: 'HARTFORD COURANT, 2021; ²CT GREEN BANK, 2011; ³U.S. ENERGY INFORMATION ADMINISTRATION, 2020; ⁴CISION 2021; ⁵CT OFFICE OF THE GOVERNOR, 2022; ⁶U.S. ENERGY INFORMATION ADMINISTRATION, 2021.



OFFSHORE WIND PROJECTS IN CONNECTICUT

Revolution Wind

Powered by Ørsted & Eversource

704 MW

Joint venture between Ørsted & Eversource Energy, providing 304 MW to Connecticut and 400 MW to Rhode Island

\$255M public-private investment in the State Pier Terminal

The first in North America to accommodate turbine assembly, staging and maritime cargo



804 MW

Largest purchase of renewable energy in state history³

AVANGRID is redeveloping an 18.3-acre waterfront industrial site for assembly & staging

Project will generate approximately \$890M in direct economic benefits and thousands of jobs

SOURCE: ¹REVOLUTION WIND, 2022; ²PARK CITY WIND, 2022; ³CT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 2019.



SOURCE: LOCATIONS OF U.S. OFFSHORE WIND PIPELINE ACTIVITY AND CALL AREAS AS OF MAY 31, 2022, U.S. DEPARTMENT OF ENERGY.



Connecticut: A Manufacturing Powerhouse

Driven by leading global OEMs in high-tech industries and supported by thousands of supply chain participants, Connecticut is home to more than 200 aerospace and defense manufacturing companies that support a variety of subsectors.



- **\$23.6** Billion of defense spending in Connecticut in 2020¹
- #2 state for defense spending per capita¹
- 3 of the top 10 defense vendors in 2020¹
- #5 state for concentration of engineers²

Company	Industry	Revenue ('21) ³	CT Jobs⁴
Electric Boat	Ship Building	\$10 billion	10,000
Collins Aerospace	Aerospace & Defense	\$18.4 billion	4,000
Pratt & Whitney	Aerospace & Defense	\$18.2 billion	8,300
ASML	Semiconductors	\$22 billion	1,700
Stanley Black & Decker	Tools & Accessories	\$15.6 billion	500
Amphenol	Electronic Connectors	\$10.9 billion	300
Sikorsky	Aerospace & Defense	\$5.4 billion ¹	7,000
Perkin Elmer	Diagnostics & Research	\$5.1 billion	500
OTIS Worldwide	Elevator Systems	\$3.6 billion	400
Kaman Aerospace	Aerospace & Defense	\$709 million	1,000

SOURCE: ¹U.S. DEPARTMENT OF DEFENSE, 2020; ²LIGHTCAST, 2020; ³2021 FINANCIAL DISCLOSURES: ELECTRIC BOAT; STANLEY; KAMAN; AMPHENOL; PERKINELMER; OTIS; COLLINS AND P&W; ASML; ⁴DATA AXEL, 2022.



GREEN CONNECTICUT



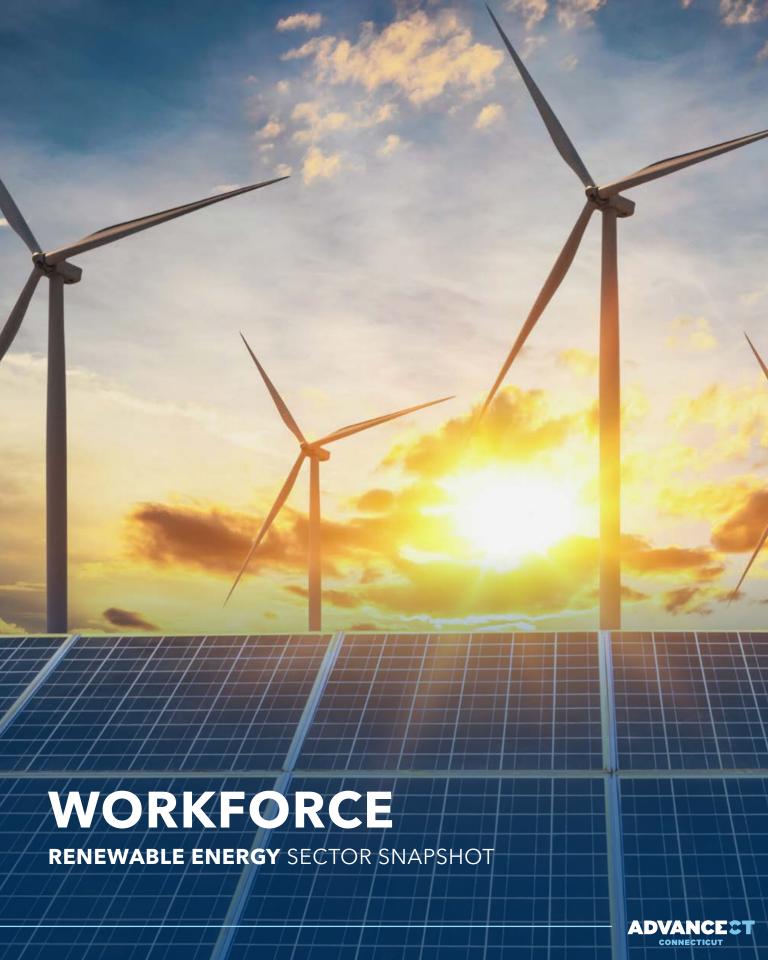
#1 lowest state contributor to climate change

(WALLETHUB, 2022)



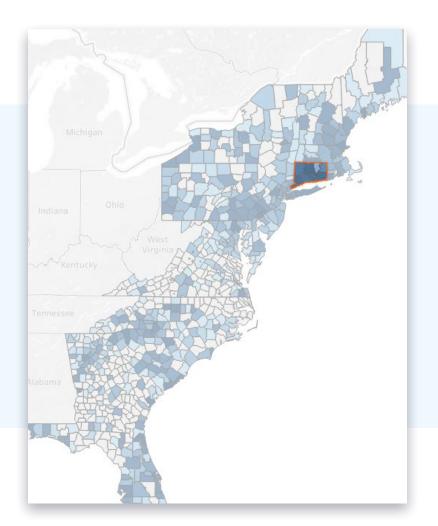
- #3 in the nation for total fuel cell patents
 - (CT DEPARTMENT OF ECONOMIC & COMMUNITY DEVELOPMENT, 2021)
- in the U.S. for offshore wind power
- most energy-efficient state in the nation

 (AMERICAN COUNCIL FOR AN ENERGY EFFICIENT ECONOMY, 2022)
- greenest state in the U.S.





#1 OFFSHORE WIND SUPPLY CHAIN IN THE U.S.



48,300 Jobs
MOST ON THE EAST COAST

Highest Job Concentration
6.25 TIMES NATIONAL AVERAGE

\$11 Billion State GDP
HIGHEST ON EAST COAST & 4TH IN U.S.



16,900 Jobs – **18x** the national concentration



11,800 Jobs – **11x** the national concentration

SOURCE: LIGHTCAST, 2020; ADVANCECT CALCULATIONS. INDUSTRIES BASED ON RESEARCH FROM NAVIGANT CONSULTING,
NREL, BVG ASSOCIATES, AND MCALLISTER MARINE ENGINEERING



ABUNDANT OSW TALENT



6.8X
the national concentration of
Marine Engineers and
Naval Architects



More than double
the national concentration of
Aerospace Engineers,
Fiberglass Laminators &
Fabricators, Machinists, and
Tool & Die Makers



3.2X
the national concentration of
Mining and Geological
Engineers, Including
Mining Safety

SOURCE: LIGHTCAST 2020; ADVANCECT CALCULATIONS

Educated Workforce



#1 state for college readiness

(U.S. NEWS & WORLD REPORT, 2021)

#3 state for employees with advanced degrees

(U.S. CENSUS BUREAU, 2021)

#4 state for knowledge jobs

(INFORMATION TECHNOLOGY & INNOVATION FOUNDATION, 2020)

#3 most educated state workforce in the U.S.

(WALLETHUR 2021)

#4 on the Human Capital Investment Composite Index

(MILKEN INSTITUTE, STATE TECHNOLOGY AND SCIENCE INDEX. 2022)

#7 in the U.S. for employed science, engineering, & health doctorates in the workforce

(NATIONAL SCIENCE FOUNDATION, 2019)

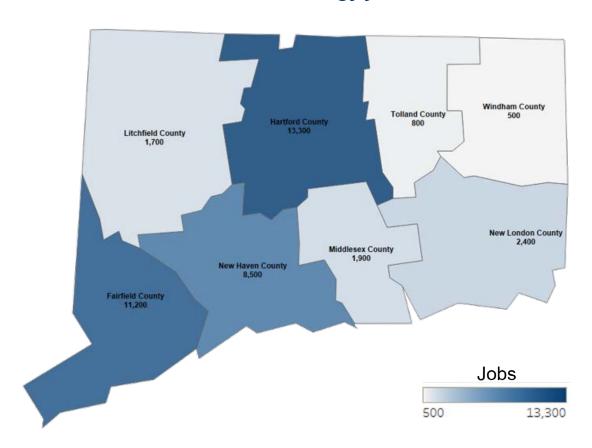


Clean jobs that directly involve Energy Efficiency, Clean Grid & Storage, or Clean Energy Generation:

Solar (PV and Thermal)
Wind Generation
Geothermal Generation
Bioenergy/Biomass/Biofuels
Hydroelectric Power

Nuclear Generation and Fuel Combined Heat and Power Energy Star Efficiency Advanced Building Materials Recycled Building Materials Smart Grid/Microgrid Hydropower Storage Thermal Storage Batteries

More than 40,000 clean energy jobs in Connecticut



SOURCE: CT GREEN BANK, 2021 CT CLEAN ENERGY INDUSTRY REPORT ESTIMATES



CONNECTICUT IS AFFORDABLE



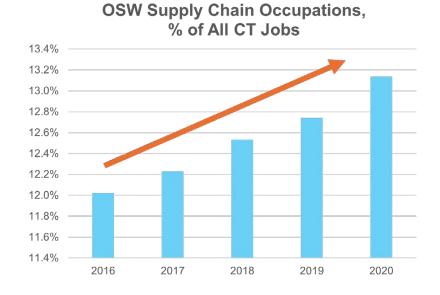


Connecticut OSW supply chain talent is **more affordable** than many other hubs.

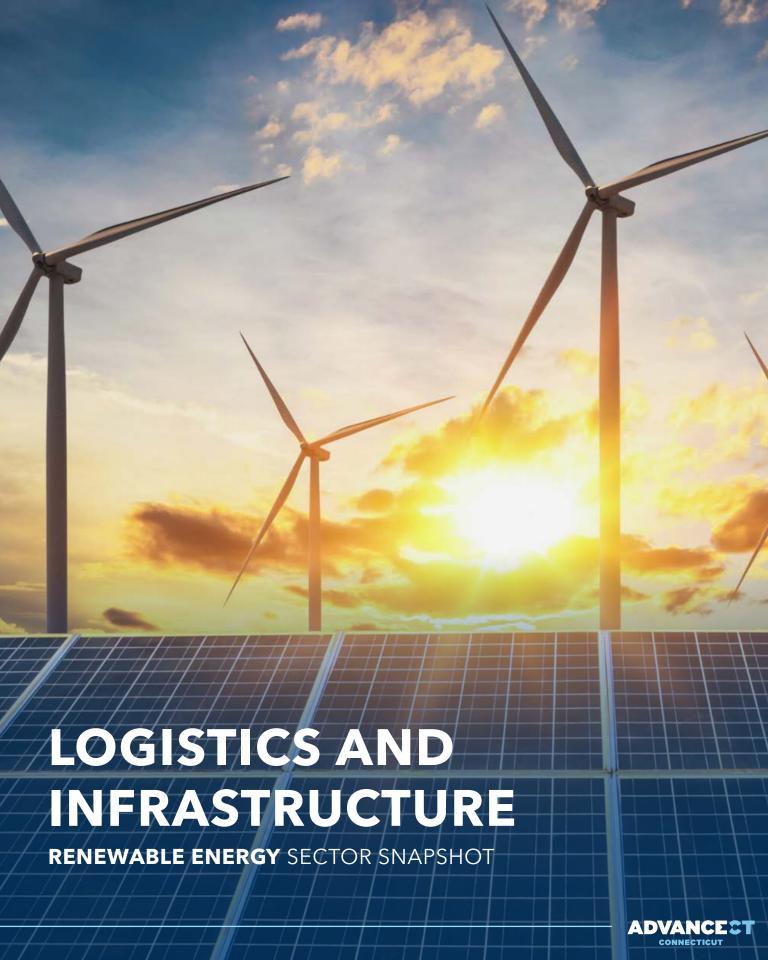


OSW supply chain talent

is increasingly prominent in the Connecticut workforce.



SOURCE: LIGHTCAST, 2020; ADVANCECT CALCULATIONS.OCCUPATIONS BASED ON RESEARCH FROM NAVIGANT CONSULTING, NREL, BVG ASSOCIATES, AND MCALLISTER MARINE ENGINEERING.





TRANSPORTATION





BY WATER

Three deep water ports in Connecticut: New London, New Haven, and Bridgeport



BY AIR

Hartford port at Bradley International Airport, with 8 additional airports across the state



BY ROAD

Highway I-95 & I-91 connect Canada to Florida I-84 connects Connecticut to Massachusetts and to New York State



BY RAIL

Connecticut's freight is handled by CSX, Housatonic Railroad, Naugatuck Railroad, PanAm Southern Railway, and Providence & Worcester Railway, serving interstate and intrastate transportation



NEW LONDON

STATE PIER TERMINAL

The only U.S. East Coast site with bridge-free passage that can assemble & ship wind towers.¹



"It is probably the best site for this work between Norfolk, Virginia, and Halifax, Nova Scotia."

Joe Nolan
 CEO, Eversource¹

IMAGE: CT PORT AUTHORITY, 2022

UNIQUELY POSITIONED WITH OFFSHORE WIND ESSENTIALS:2

Close to offshore wind lease areas with zero overhead obstructions State of the art, well-protected, deep water, heavy lift port facility Freight rail link

ROBUST PUBLIC AND PRIVATE SUPPORT:3

\$255M public-private investment Ørsted and Eversource sign 10-year lease with CT Port Authority

STAGING AND ASSEMBLY:

55-90 wind turbine generator delivery and installation vessels⁴ More than 12,000 Ship and Boat Building jobs in New London⁵

SOURCE: ¹HARTFORD COURANT, 2022; ²U.S. ECONOMIC DEVELOPMENT ADMINISTRATION, 2022; ³CT PORT AUTHORITY, 2022; ⁴REVOLUTION WIND, 2020; ⁵LIGHTCAST, 2021, NORWICH - NEW LONDON MSA.



BRIDGEPORT & NEW HAVEN

BARNUM LANDING, BRIDGEPORT

Multimillion-dollar redevelopment of 18.3-acre waterfront industrial property

Park City Wind construction and staging location^{1,2}

- Storage and assembly of transition pieces
- Steel fabrication and final outfitting
- Operations & maintenance hub for 20+ year project





NEW HAVEN HARBOR

Growing in significance:

- \$2.5B moved in 2021³
- Value of goods up 158% over 5 years
- 35% increase of vessel traffic from 2020 to 2021⁴

Improvements underway:4

- \$63M for dredging and widening of port, safety and efficiency improvements
- \$160M for coastal resiliency: flood walls, roadway protections, pump station

SOURCE: ¹PARK CITY WIND, 2022 ²CT INSIDER, 2022 ³U.S. CENSUS BUREAU USA TRADE, 2021; ADVANCECT CALCULATIONS
⁴NEW HAVEN INDEPENDENT, 2022

*PROJECTS ARE ONGOING: INVESTMENT AMOUNTS LISTED ARE SUBJECT TO CHANGE FIGURES CURRENT AS OF 12/20/2022

FOREIGN TRADE ZONES





CONNECTICUT FOREIGN TRADE ZONES

Foreign trade zones were created to encourage activity and value-add at U.S. facilities by allowing delayed or reduced duty payments.

Connecticut has four foreign trade zones and 72 opportunity zones.

Connecticut's FTZs cover almost the entire state:

Bridgeport #76

Fairfield County Litchfield County New Haven County (Milford, Orange, Ansonia, Derby, Seymour, Oxford, Beacon Falls, Southbury, Middlebury, Naugatuck, Waterbury, Wolcott)

New Haven #162

New Haven North Haven

New London #208

New London County Two tribal lands

Windsor Locks #71

Hartford County Litchfield County Middlesex County Tolland County Windham County





ADDITIONAL STATE INFRASTRUCTURE INVESTMENT





\$5.3B federal funds over the next 5 years for 1...

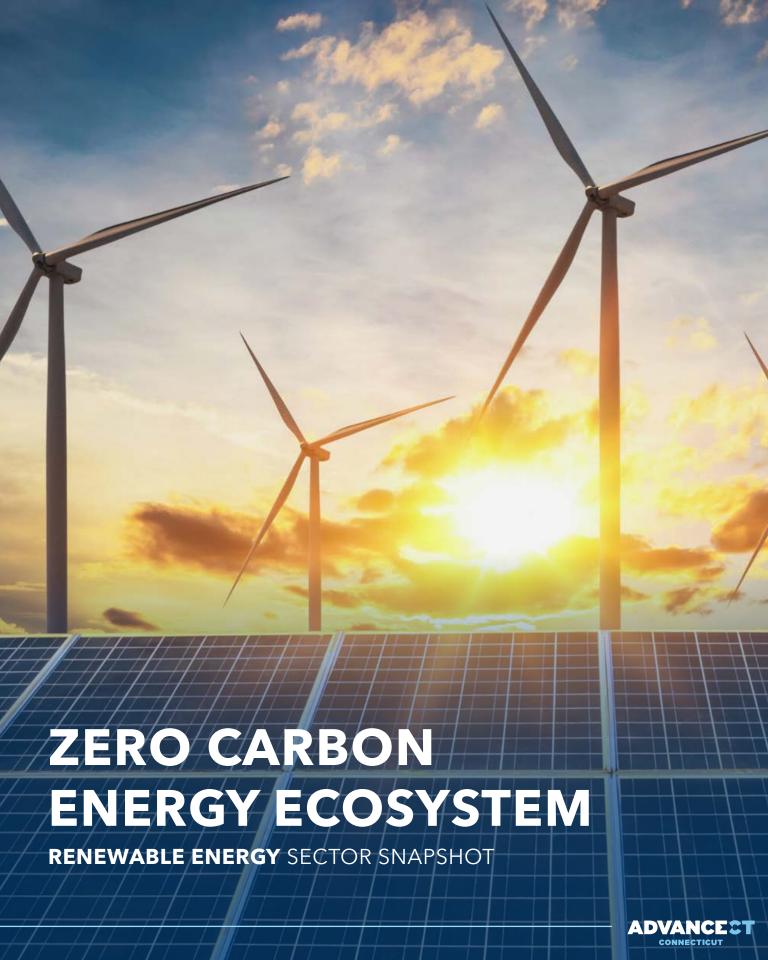
- \$1.3B public transit, bus and rail (additional \$85M rail improvement just announced²)
- \$561M bridges
- \$169M transportation resiliency, carbon reduction
- \$55M EV charging stations
- \$53M airport infrastructure³



State funds approved for...

- \$490M transportation, including bus electrification within 10 years⁴
- \$5.9M small harbor improvement projects program⁵

SOURCE: 1CT OFFICE OF THE GOVERNOR, 2021; 2CT DEPARTMENT OF TRANSPORTATION, 2022; 3CBIA, 2022; 4CT MIRROR, 2022; 5CT PORT AUTHORITY, 2022.





SOLAR IN THE CONNECTICUT ECONOMY



2,275 JOBS (2021) 67,621 CURRENT INSTALLATIONS

135 COMPANIES

\$2.8 billion total solar investment in state







SOLAR IS A POPULAR OPTION...

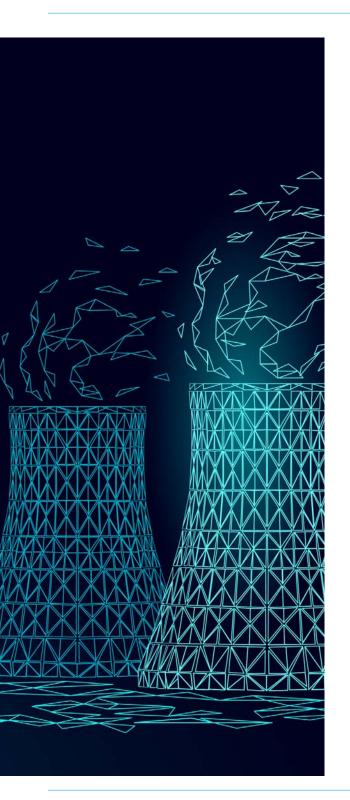
22nd in the U.S. – even though the 3rd smallest state 3.2% of state electricity total

...AND IS GROWING QUICKLY

1,137 MW installed 1,011 MW to be added over next 5 years



NUCLEAR ECONOMIC IMPACT



THE MILLSTONE POWER STATION



ABOUT

Produces 16.8MWhs/yr, almost enough for 2 million homes¹ 24/7, reliable, low cost, and carbon-free electricity¹

BENEFITS

10-year contract for 9 million MWh pushed CT electric costs below New England average²

Fixed price agreement allows customers to avoid price swings³

OPPORTUNITY TO PARTICIPATE

Wholesale provides a rapid path to 100% renewable energy

Purchase 100% clean energy with no additional infrastructure

SOURCE: ¹DOMINION ENERGY, 2022; ²CTEXAMINER, 2022; ³HARTFORD COURANT. 2022.



HYDROGEN AND FUEL CELL TECHNOLOGY

U.S. Department of Energy funded advancements:3





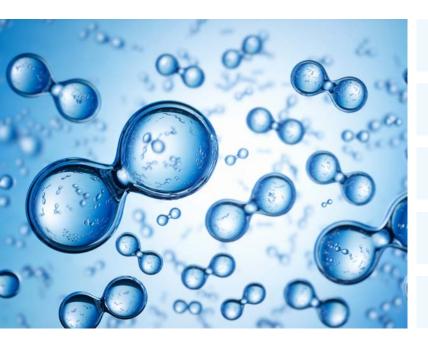








ROBUST HYDROGEN DEVELOPMENTS



10 OEMs¹

980+ Direct Jobs¹

600+ Supply Chain Companies¹

\$600+M Revenue and Investment¹

95 Active Fuel Cell Projects²

SOURCE: ¹CONNECTICUT HYDROGEN FUEL CELL COALITION, 2021; ²CONNECTICUT HYDROGEN FUEL CELL COALITION, 2022; ³U.S. DEPARTMENT OF ENERGY, 2020.



Hydrogen is a key part of Connecticut's Comprehensive Energy Strategy¹





Connecticut partnered with New York, New Jersey, Massachusetts, Maine, and Rhode Island in a bid to be one of 4 regional Clean Hydrogen Hubs, part of \$8B in federal Infrastructure Investment and Jobs Act (IIJA) funding.^{2,3}

Focus: Advance safe, hydrogen energy innovation and investment, while improving the region's health, resiliency, and economic development²

Over 60 partners, including: 2,4,5,6



































SOURCE: ¹CT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 2022; ²CT OFFICE OF GOVERNOR, 2022 ³UNIVERSITY OF CONNECTICUT, 2022; ⁴COALITION OF NORTHEASTERN GOVERNORS, 2022; ⁵HYDROGEN CENTRAL, 2022; ⁶NY OFFICE OF GOVERNOR, 2022.





KEY INVESTMENTS

\$5.3 billion raised in 2021 by Connecticut companies committed to green energy.¹ Every dollar the state invests in clean energy is matched by \$7.5 from the private sector.²









\$4B

\$912M

\$314M

\$10M









\$10M

\$7.9M

\$6.3M

\$5M



\$4.3M



\$1.5M



\$1.2M



\$0.7M



\$0.2M



\$0.2M

SOURCE: ¹PITCHBOOK, 2022; ADVANCECT CALCULATIONS; ²CT GREEN BANK, 2021.

COMPANIES BASED ON PITCHBOOK CLEAN TECH AND CLIMATE TECH VERTICALS, AND SELECTED ENERGY AND MATERIALS AND RESOURCES SUBCATEGORIES RELEVANT TO RENEWABLE ENERGY AND ZERO CARBON.





GREENTECH RESOURCES

Connecticut Department of Energy & Environmental Protection¹

A state agency that is committed to making cheaper, cleaner and more reliable energy available has a variety of programs and incentives ranging from EV charging to energy storage.

Connecticut Innovations (CI) ClimateTech Fund²

\$100M investment fund focused on renewable energy, sustainability, and disruptive green technologies

Connecticut Green Bank³ and EnergizeCT⁴

Green energy solutions for property owners, contractors, towns and cities, and capital providers

Future Climate Venture Studio at UCONN⁵

Collaborates with startups addressing the most critical dimensions of the climate challenge, including decarbonization, alternative energy, social impact, and more.

ClimateHaven⁶

Climate focused tech incubator backed by Department of Energy, Yale University, and Connecticut Innovations.

UCONN Center for Clean Energy Engineering (C2E2)⁷

Education, research, and innovation in sustainable energy systems



Hydrogen Fuel Cell Policy Incentives

Mandatory Renewable Portfolio Standards (RPS)

- Interconnection Standards
- Net Metering/Virtual Net Metering
- Public Benefits Funds
- Utility Ownership
- Performance-Based Power Purchase
- Property Assessed Clean Energy Financing (PACE)
- Property Tax Incentives
- ZEV Purchase Incentives
- Refueling Infrastructure Incentives
- Fuel Efficiency Standard

FOR MORE INFORMATION: ¹CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION, 2023; ²CONNECTICUT INNOVATIONS, 2024; ³CONNECTICUT GREEN BANK, 2023; ⁴ENERGIZE CT; ⁵FUTURE CLIMATE VENTURE STUDIOS, 2022; ⁴NEW HAVEN INDEPENDENT, 2023; ¹UNIVERSITY OF CONNECTICUT

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LEARN ABOUT CONNECTICUT'S KEY INDUSTRIES AT ADVANCECT.ORG











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