



ENERGY FORWARD ALLIANCE



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ENERGY FORWARD ALLIANCE

The Mission

The Energy Forward Alliance drives advanced energy innovation and partnerships in the Tri-Cities, Washington region, leveraging existing capabilities and developing new solutions to build a reliable and sustainable clean energy future.

The Vision

A future in which the Tri-Cities secures a reliable and abundant supply of clean power, stands as a global leader in the deployment of innovative energy solutions, and inspires other regions across the state, nation, and world to adopt a sustainable energy community model.

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Policy Carrots & Sticks Refresher

Clean Energy Transformation Act (2019): A Brief Overview

CETA requires the state's electric utilities to fully transition to clean, renewable and non-emitting resources by 2045. The act sets the following mandatory targets:

- **2025** – All electric utilities must eliminate coal-fired generation serving Washington state customers.
- **2030** – All electric utilities must be greenhouse gas neutral—ex., remaining carbon emissions are offset by renewable energy, energy efficiency, carbon reduction project investments, or payments funding low-income assistance.
- **2045** – All electric utilities must generate 100% of their power from renewable or zero-carbon resources.

Climate Commitment Act (2021) Goals, according to WA Ecology:

- **Reduce Greenhouse Gas Emissions:** The CCA aims to reduce Washington's greenhouse gas emissions by 45% by 2030, 70% by 2040, and 95% by 2050, relative to 1990 levels.
- **Achieve Net-Zero Emissions by 2050:** The ultimate goal is to reach net-zero greenhouse gas emissions by 2050.
- **Invest in Climate Solutions:** The CCA supports investments in clean energy, clean transportation, and other initiatives to mitigate climate change.

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Tri-Cities At a Glance

- Energy Northwest, Amazon, & X-energy
- Cleanup to Clean Energy & Hecate Energy
- Hydrogen Hub & Atlas Agro
- Agricultural Symbiosis
- Bonneville Power Administration & South of Tri-Cities Reinforcement Projects
- Avalanche Energy & FusionWERX
- PNNL's Grid Storage Launchpad
- Washington Energy

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Tri-Cities Area Journal of Business - 12/13/2024 Page: C05

ENERGY FORWARD ALLIANCE

A year of innovative energy partnerships, collaboration



Steve Chavez
Energy Forward Alliance

The year has been a year of innovative energy partnerships, collaboration in the Tri-Cities, addressing the region's needs in the clean energy production of the Pacific Northwest. Clean energy partnerships and collaborations with utility, industry, and local governments have resulted in a number of innovative energy projects. These advancements offer the local community a number of clean, reliable and affordable energy while creating significant opportunities for economic development. The projects make us more resilient for the future in energy and energy jobs.

Hydrogen hubs collaboration. One of the most exciting developments in the advancement of the Pacific Northwest Hydrogen Hub (PNWH2), key component in the federal network based on establishing a hydrogen production and distribution network across the region. With projects spanning Washington, Oregon and California, the PNWH2 is a multi-state effort to establish a hydrogen network, including transportation, manufacturing, and heavy industry.

The Tri-Cities stands at the forefront of the green hydrogen effort. A strategic project, the Atlas Agro Pacific Clean Hydrogen facility in Richland, will revolutionize the facility's industry in the world's first multi-innovative plant will reduce the carbon footprint of the facility while increasing production by 80% with hydrogen electrolysis and storage. It's a game-changing project for the nation, right here in Richland.

Washington State University Tri-Cities plays a crucial role in the PNWH2, leading the university's efforts in building the hydrogen hub component in the region's hydrogen network. In the development of the industry.

In 2023, with the assistance of the Richland Area Chamber of Commerce, a project management and professional services contract, will support the hub component in the newly completed Richland Hydrogen Hub. The facility will support the hub component in the region's hydrogen network. The facility will support the hub component in the region's hydrogen network.

Advancing new nuclear energy. The new construction of the advanced nuclear reactors in Energy Northwest's advanced nuclear reactors will support the hub component in the region's hydrogen network. The facility will support the hub component in the region's hydrogen network.

As these projects and collaborations advance, local businesses and residents will benefit from the economic growth and job creation. The region's energy industry is thriving, and the future is bright. The region's energy industry is thriving, and the future is bright.

January 9, 2025 9:55 am GMT-8:00



WHERE VITALITY MEETS INNOVATION

INDUSTRIAL PROPERTY AVAILABLE IN THE NORTHWEST ADVANCED CLEAN ENERGY PARK

FOR LEASE, MANUFACTURING AND INNOVATION

NEW MANUFACTURING TAX INCENTIVES AVAILABLE FOR JOB CREATION

MORE INFORMATION: www.richlandbusiness.com

Powered by TSBUSINESS

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AI Data Centers, Energy, & Us

- NW Council predicts electricity demand in its four-state region could double in 20 years; PNUCC forecasts energy demand will increase by 7,800 average megawatts to 31,600 within a decade, the equivalent of adding seven Seattle-sized cities to the power grid.
- Currently nearly 6% of the average Pacific Northwest regional load, but it will grow rapidly during the next five years.
- In the local Seattle/Tacoma area, data centers already consume over 10% of available power.
- Data centers in the PNW currently require an average of 1,300 MW



Here in Tri-Cities:

- 4-5 ongoing developments; weekly inquiries
- Governor Ferguson Data Center Workgroup
- DOE AI Data Center RFI & Community Submission



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CLEANUP TO CLEAN ENERGY COMMUNITY VISION

OUR CONCEPT

- Enable industrial symbiosis through co-location of energy generation and industry to reduce:
 - Costs, CO2 emissions, waste streams, and energy intensity.
- Provide abundant, affordable, and carbon free energy for future economic growth across the Pacific Northwest.
 - Local projects in development will need over 1GW of electricity.
- Diversify the economy while adding high-wage, clean energy generation, manufacturing, and R&D jobs with high job multipliers.
- Develop solutions for hard to decarbonize industries, while helping meet aggressive regional and national clean energy/decarbonization goals.



NORTHWEST ADVANCED CLEAN ENERGY PARK

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1641 PROJECTS

Projects In Development:

- Atlas Agro: Carbon-Free Fertilizer
- Tucci Solar

Prospective Projects:

- Project Hyas: Carbon-Free Potato Chips and Flakes
- Project Charge: EV Battery Anodes
- Project Rail Port: Low-Carbon Steel Production



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316,600
Population



Global leader in nuclear innovation for over 75 years!



40% of WA's power is produced within a 100-mile radius



Hub for Clean Energy, Ag, and R&D

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Cityvision

THE ASSOCIATION OF WASHINGTON CITIES MAGAZINE

"WE'RE TALKING ABOUT INTERNATIONAL SCALE NOW. AND THE ROLE THAT THE CITY OF RICHLAND PLAYS IN THAT IS ONE THAT JUST REALLY CAN'T BE OVERLOOKED."

- Sean O'Brien, executive director of the Energy Forward Alliance

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