



GREATER NEW ORLEANS
INC
REGIONAL ECONOMIC DEVELOPMENT



H₂theFUTURE

ENERGY TRANSFORMATION IN SOUTH LOUISIANA

AAPA Wind Presentation—August 2023

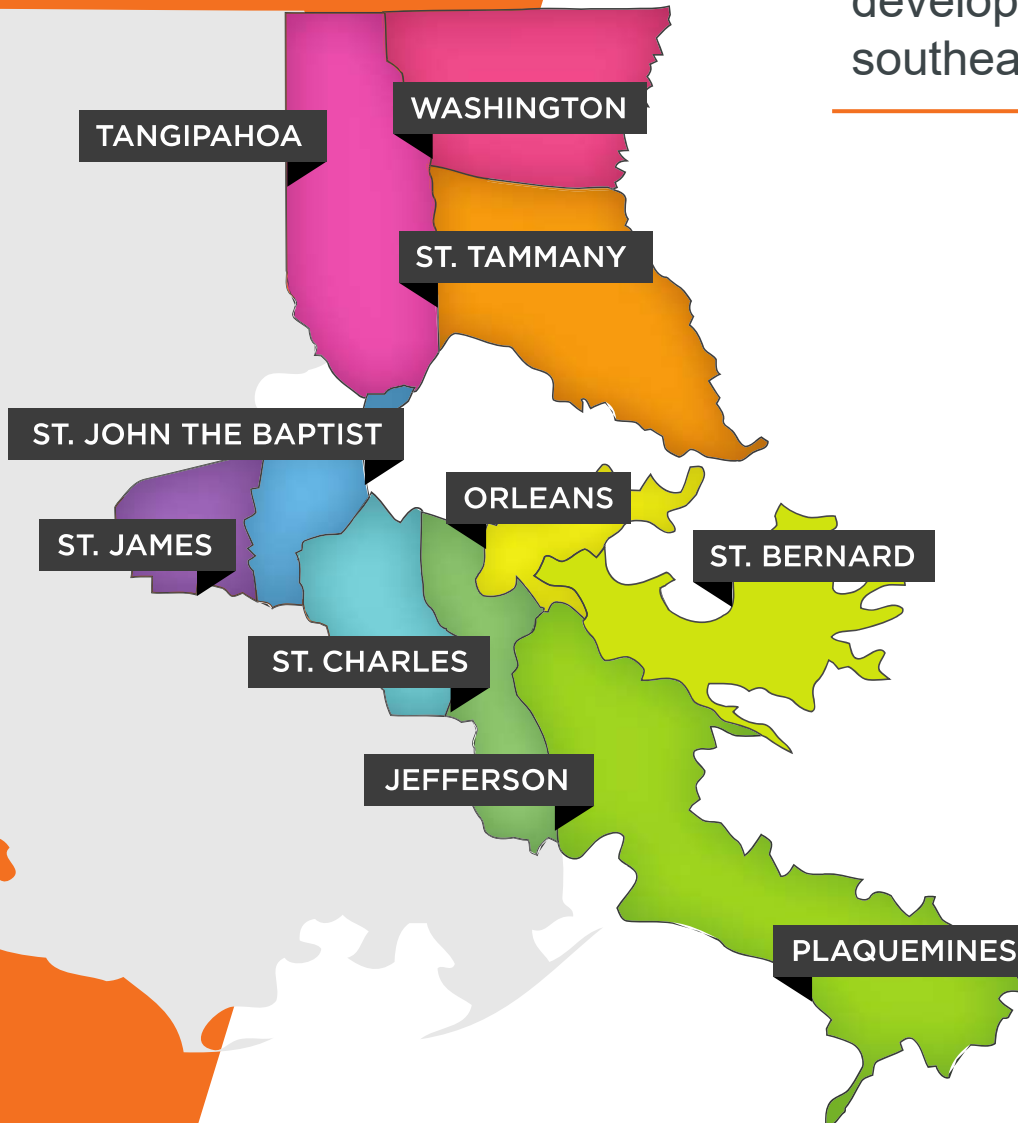
GNO, Inc. is the economic development organization for southeast Louisiana.

Business Development

- Business Attraction
- Business Growth
- Business Retention
- Research

Business Environment

- Policy
- Workforce
- Brand Development
- Ecosystem Development



MARKETS PRIME FOR INNOVATION

Louisiana possesses unique market conditions that will catalyze unprecedented investment and advancement in renewable energy technology, manufacturing, and innovation.



ENERGY CONSUMPTION

Ranked #2 highest per/capita energy consumption in the nation



HYDROGEN

Ranked #1 highest per/capita demand for hydrogen



OFFSHORE WIND

Ranked #4 in net technical potential for offshore wind energy (NREL)

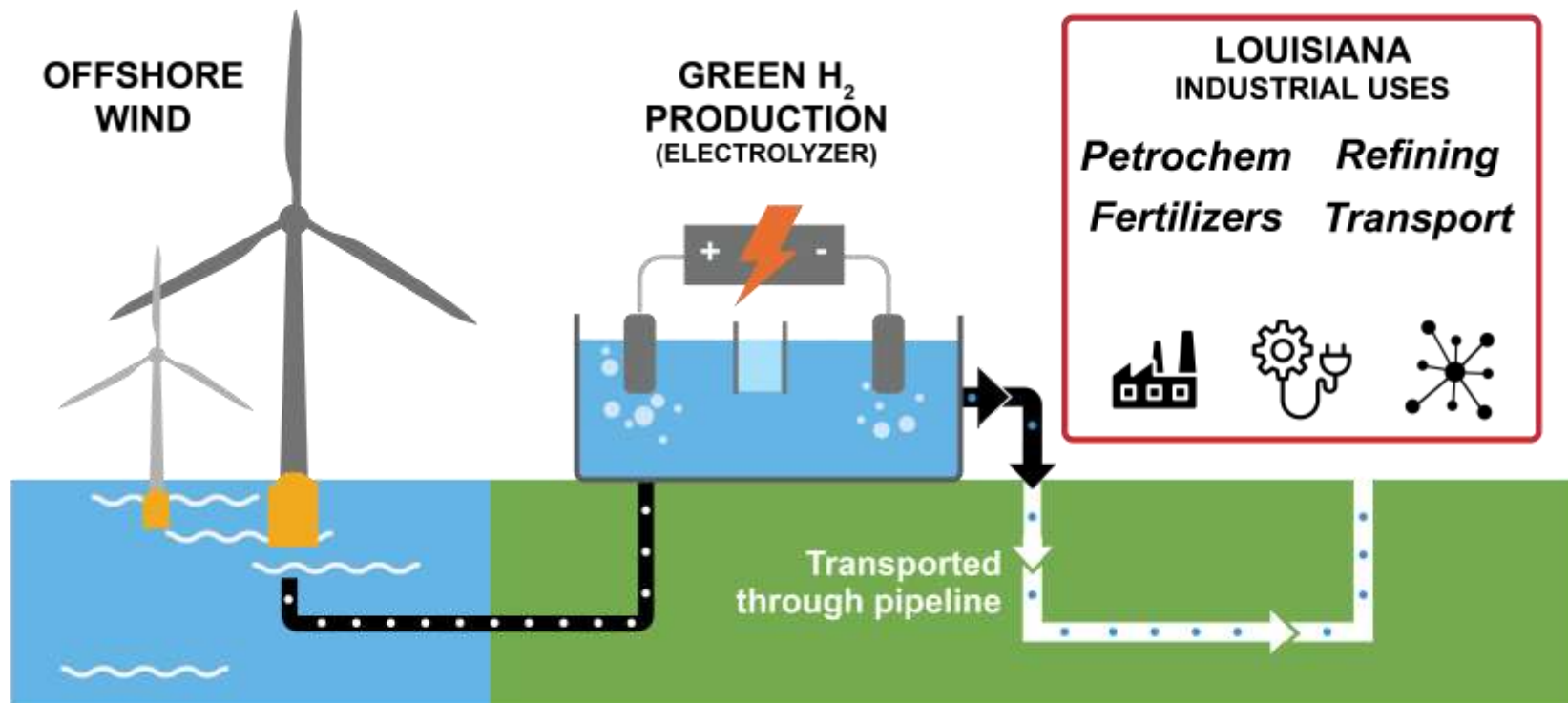


INNOVATIVE TECHNOLOGY

With carbon capture (CCUS) and hydrogen electrolysis, the State can retain its position as a global energy and industrial hub while reducing carbon emissions

Build Back Better Award: H2theFuture

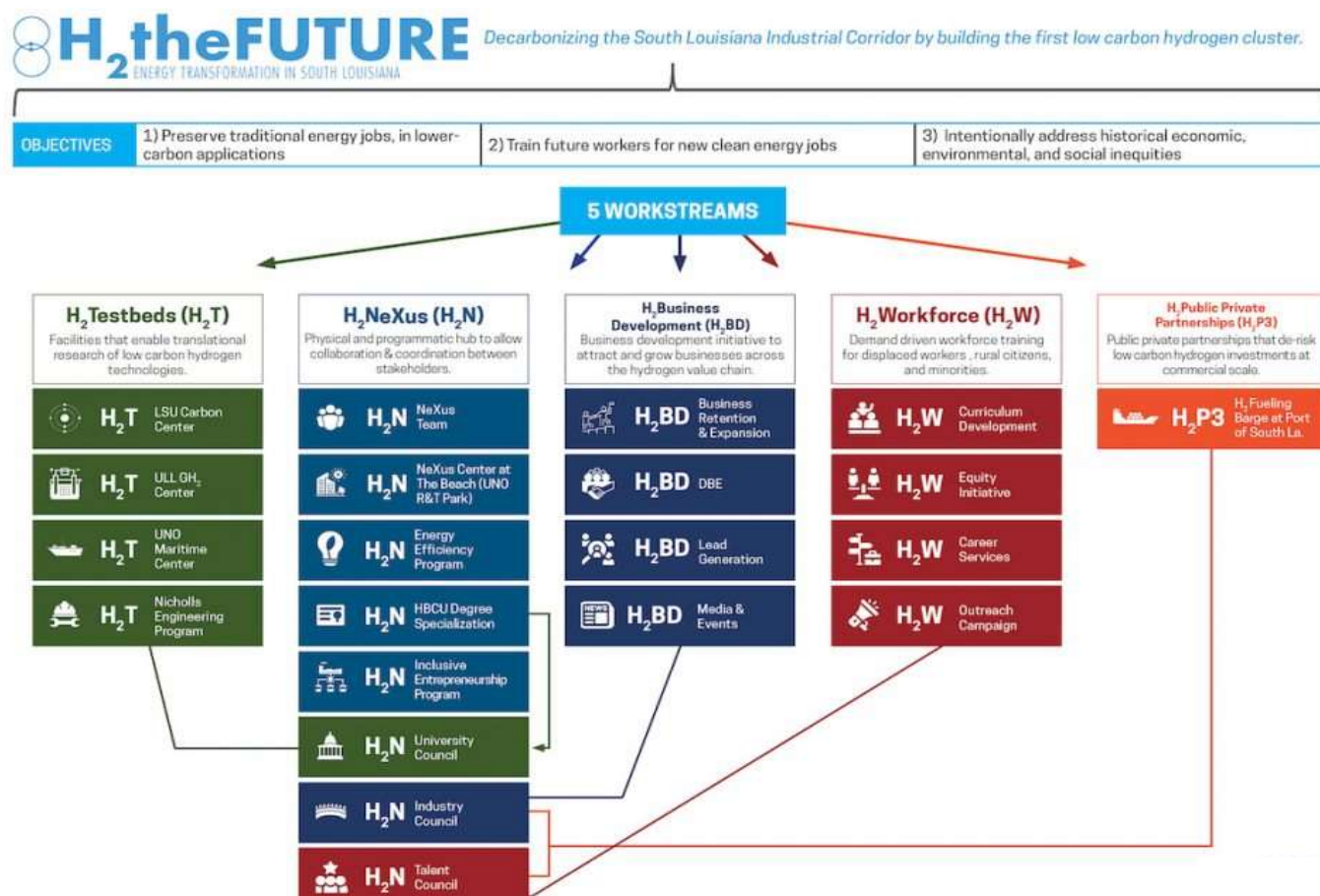
South Louisiana is well positioned to bridge to a higher-job, lower carbon future. A transition to the production and use of clean hydrogen can both decarbonize South Louisiana's industrial corridor and can create and preserve good jobs.



Green hydrogen production for industrial use in LA

Build Back Better Award: H2theFuture

EDO's, Higher Education Institutions, Community Colleges and Non-Profits collaborating to create **5,000 new jobs**, **\$2B in CapEx** and **15 project announcements in clean energy** by 2026 with \$50M BBBRC Award



H2theFuture: Research and Development

Three Louisiana research institutions are being funded to expand their R&D capacity through test beds that will support industry/higher ed collaborations



Carbon
Capture and
Sequestration
Well + Flow
Loop



Naval Engine
Hydrogen
Conversion+
Fluid Dynamic
Structure



Solar test bed
+ Biomass
Gassifier +
Electrolyzer

H2theFuture: Business Development

Over the last six months, the GNO-region had three announcements totaling 1,503 jobs related to Future Energy

- **United Utility—New Orleans**
National headquarters
 - 308 total jobs (141 direct jobs)
 - Average Salary of \$95K
- **St Charles Clean Fuels—St. Rose**
Ammonia production & export facility
\$4.6 Billion CapX
 - 1165 total jobs (216 are direct)
 - Average Salary of \$90K
- **Shell Gulf Wind Technology Accelerator—Avondale**
Research, training and technology demonstration program
 - \$10M investment
 - 30 new direct jobs
 - Average Salary of \$83K

Talking Business: Ali Azad explains why New Orleans is now the heart of United Utility's business

BY AMT 04.19.23

St. Charles Clean Fuels Proposes \$4.6 Billion Reduced-Carbon Ammonia Facility in St. Rose

Proposed production and export project could result in more than 1,000 new jobs in the Southeast Region

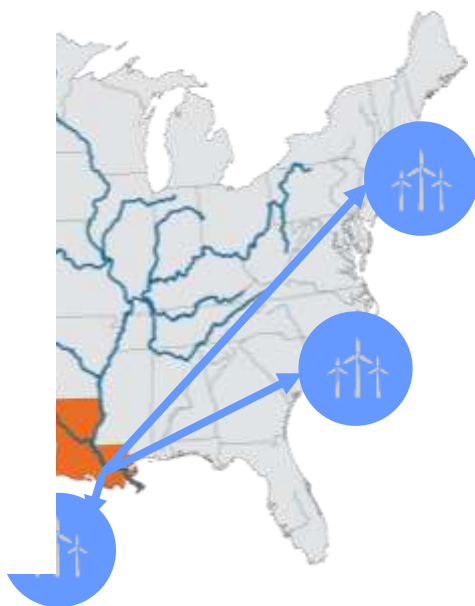


Shell Invests \$10M in Gulf Wind Technology Research and Training Program

03/13/2023 by Rich Collins

H2theFuture: Business Development

At the epicenter of the US offshore maritime sector, coastal Louisiana is the smart location for OSW market leaders.



Ranked 4th among all US states in net technical potential for OSW energy.

Source: National Renewable Energy Laboratory



A 70-year legacy in offshore maritime work rooted in safety and innovation.



The largest port complex in the western hemisphere with ample site options.

Source: U.S. Corps of Engineers, Navigation Data Center



A low-cost business environment and top workforce training programs.



Pro-business and highly coordinated government entities in support of renewables

H2theFuture: Business Development

With the first Gulf of Mexico wind lease coming online later this summer, GNO, Inc. anticipates significant economic activity through wind development

3 Verticals of Opportunity:

Supporting U.S. Projects

8 Louisiana organizations employed to design, develop, and operate the Block Island Wind Farm – the first U.S. OSW development.

Leading GoM Developments

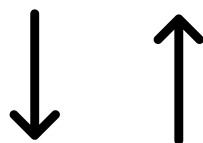
Louisiana's Climate Action Plan sets an offshore wind generation goal of 5 GW by 2035, enabling local industry to develop projects in the GoM.

Connecting Energy End-Users

OSW energy can be used to produce clean hydrogen for other industries in Louisiana, as well as power community grids for homes and businesses.



H2theFuture: Business Development



**GNowind
Alliance**
Laissez Le Bon Vent Souffler



Opportunity for synergistic
development across Clean
Hydrogen and Off-Shore Wind
industries in Louisiana

H2theFuture: Business Development



OFFSHORE WIND SUPPLIER DATABASE

Installation and
Commissioning

Professional Services

Operation and Maintenance

INSTALLATION AND COMMISSIONING

Company Name:

Company Name

Work Package:

Nothing selected

Subcategory:

Nothing selected

Tier 1 or 2 Category:

Nothing selected

Show 1 entries

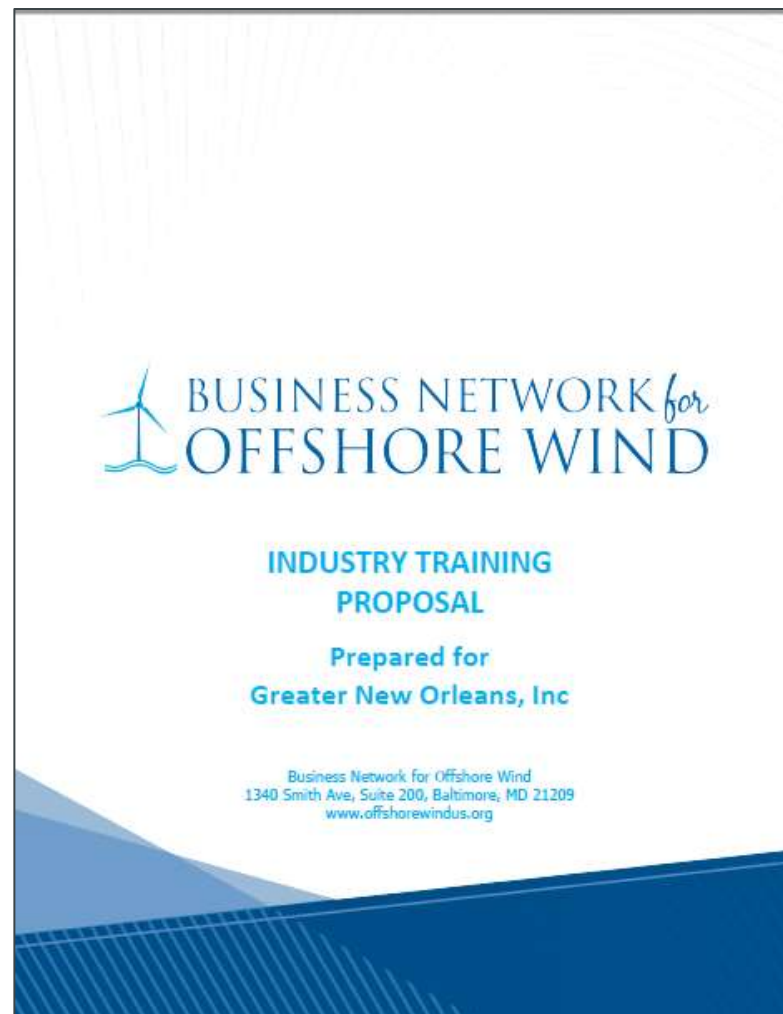
Search:

Company Name	Work Package	Subcategory	Tier 1 or 2 Category
Avondale Global Gateway	Installation and Commissioning	Port Redevelopment or Construction Activities	Stevedoring / Warehouse facilities
Danos LLC	Installation and Commissioning	Port Redevelopment or Construction Activities	O and M building
Deep South Crane & Rigging	Installation and Commissioning	Port Redevelopment or Construction Activities	Lay down area
Edson Chouest Offshore and its family of affiliated companies (ECO)	Professional Services	Engineering	Subsea services

- Launching Wind Supplier Database—in partnership with RWE—following August 29th BOEM auction
- Database includes over **130 Louisiana contractors** with capacity to work in wind
- Intent is to connect wind developers in the Gulf Coast and across the US with Louisiana talent and expertise in offshore energy planning, engineering, design, installation and maintenance

H2theFuture: Business Retention and Expansion

- Partnering with the Business Network for Offshore Wind
November 1-10th
- Hosting a workshop series across South Louisiana to introduce interested companies/contractors to the wind development process and contracting flow
- Workshop locations include: Lake Charles, Lafayette, Baton Rouge, Houma/Thibodeaux and New Orleans



H2theFuture: Workforce Development

The current workforce programs in South Louisiana are designed to support offshore energy production: curriculum updates and net new programs must be developed for the next generation of energy

Nunez Partners with Energy Innovation of Norway to Develop Renewable Energy and GWO Wind Curriculum

Posted November 18, 2022

menu

THE UNIVERSITY of NEW ORLEANS

CAMPUS NEWS: AUGUST 8, 2022

WIND ENERGY HUB

**The University of New Orleans
Launches Louisiana Wind
Energy Hub at UNO**

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The Louisiana Wind Energy Hub will be housed at The Beach at UNO, the University's Research & Technology Park.

**RIVER PARISHES
COMMUNITY COLLEGE
SECURES MAJOR U.S.
DEPARTMENT OF
LABOR GRANT FOR
RENEWABLE ENERGY
TRAINING**

H2theFuture: Workforce Development

The University of New Orleans, in partnership with the UNO Research & Technology Foundation, announced the launch of the Louisiana Wind Energy Hub at UNO. The Louisiana Wind Energy Hub at UNO will host the Gulf's premier ecosystem for innovation, entrepreneurship, and education in offshore wind energy.

The LA Wind Energy Hub activities include:

- Startup incubation support and services
- Wind innovation programming to advice the industry in LA
- Seed technology commercialization grants
- Develop the UNO Wind Scholars Program
- Launch offshore wind certification programs



H2theFuture: Workforce Development

Nunez Community College has a letter of intent with Energy Innovation of Norway to develop curricula and training center for construction and maintenance of on and offshore wind turbines.

Partnership will develop the following:

- Work together with industry partners to establish new curricula to meet GWO (Global Wind Organization Standards)
- Provide technical assistance to establish and implement training program that support global offshore wind efforts
- Develop a strong education to employment pipeline from K-12 through adult education systems
- Become a driver of economic development projects that will create the needed talent for industry growth



Nunez Partners with Energy Innovation of Norway to Develop Renewable Energy and GWO Wind Curriculum

Posted November 18, 2022

Nunez Community College in Chalmette has signed a letter of intent with Energy Innovation of Norway to develop a curriculum and training center for construction and maintenance of on and offshore wind turbines.

The Nov. 10 signing ceremony on the Nunez campus follows a trip taken this past summer by the Nunez executive team along with representatives from GNO Inc. and the St. Bernard Parish Government to the Block Island Wind Farm in Rhode Island. That trip, to



**THANK
YOU**

Lacy McManus

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