THE BUSINESS CASE FOR COASTAL LOUISIANA

March 2021
LOUISIANA ADVANTAGE

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.
- 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.
- A low-cost business environment and top workforce training programs.
- Pro-business and highly coordinated government entities in support of OSW.
LOUISIANA WILL BE THE OSW MANUFACTURING HUB

OSW manufacturers will want to benefit from LA’s superior assets and business environment to supply projects on each coast.
EACH COAST HAS UNIQUE OSW OPPORTUNITIES

Louisiana has a unique advantage given the shallow waters in the Gulf of Mexico that extend 90 meters off coast.

Source: NREL
The combination of shallow waters and moderate wind speeds places Louisiana fourth in net technical energy potential.

- > 7 m/s Wind Speed
- < 1000 Depth
- < 60 m Depth (Great Lakes)
- Conflicting Use and Environmental Exclusions

Source: NREL
The Edwards Administration paves the way for the exploration of offshore wind energy in the Gulf of Mexico with a Task Force request to BOEM.
THE WORKFORCE ADVANTAGE

For seventy years and counting, Louisiana is home to the world’s most specialized offshore maritime workforce.

<table>
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<tr>
<th>AUTOMATION</th>
<th>COATINGS</th>
<th>CONSTRUCTION</th>
<th>ENGINEERING</th>
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<tr>
<td>Drone services paired with AI pattern recognition</td>
<td>Blasting &amp; painting services identical as GoM platform activities</td>
<td>Offshore/Marine Surveyors, Geomatics-Techs, Riggers (&amp; Supervisors)</td>
<td>Conceptual, Detailed, Installation Management, Commissioning, Operational (digital twinning)</td>
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<tr>
<th>ENVIRONMENTAL</th>
<th>FABRICATION - PRIMARY STEEL</th>
<th>FABRICATION - SECOND. STEEL</th>
<th>PRODUCTION WORKFORCE</th>
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<tr>
<td>PSO’s (Protected Species Observers), MMO’s (Marine Mammal Observers), Enviro-Permitting</td>
<td>Capable of serial-building of large jacket foundations (possibly needed for next-gen WTGs)</td>
<td>Atop monopole, jacket, gravity, Base foundations; Fab of Handrails, Stairwells, Ladder, Landings</td>
<td>O&amp;M (Operations &amp; Maintenance) Technicians [checks &amp; sensors] - GWO Training</td>
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<tr>
<th>PROJECT MANAGEMENT</th>
<th>SCAFFOLDING</th>
<th>SHOREBASE &amp; LOGISTICS</th>
<th>SPECIALIZED SERVICES</th>
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<td>PMs knowledgeable in offshore construction, operations projects</td>
<td>Primarily during O&amp;M specialized maintenance operations</td>
<td>Distributed shorebase infrastructure w/ “Just-In-Time Logistics”</td>
<td>Finance, Legal, Public Relations, Governmental consultancy</td>
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Source: Joseph A. Orgeron, Ph.D., 2nd Wind Marine
Coastal Louisiana produces a vast quantity of OSW-relevant technical and professional talent through its network of higher education institutions.
Louisiana workers have built and operated one of the most expansive offshore platform networks in the world.

Source: EIA; (each dot represents O&G platform)
UNRIVALED PORT SYSTEM

The Mississippi River is of paramount importance for global trade. The more than 11,000 vessels traversing the Lower Mississippi River each year come and go via 14,500 miles of inland waterways and transport roughly 500 million tons of cargo annually.
**Multimodal Logistics** – Coastal Louisiana boasts a complex transportation infrastructure that provides easy access to the rest of the world via air, land, and sea.

This extensive transportation system includes the **largest port system** by tonnage in the Western hemisphere, the **only port in the country with access to all six Class I railroads**, and the newest airport terminal offering **57 non-stop flights***, including 8 new international destinations, for a total of **150 daily flights***.

*current figures may be different due to coronavirus pandemic
The lower Mississippi alone has over **216 greenfield sites** on port infrastructure or on the river providing ample, low-cost real estate options.
COST ADVANTAGE

The State of Louisiana will provide substantial support to qualified company investments.

Contingent upon eligibility for Competitive Projects Payroll Incentive, Industrial Tax Exemption Program, and FastStart Program.
US OSW PROJECTS RELY ON LA EXPERTISE

Block Island Wind Farm made possible by LA companies
Lafayette-based Aries Marine Corp. and Galliano-based Falcon Global LLC are Louisiana liftboat operators that helped develop the nation’s first commercial offshore wind farm, Block Island. For that project, Metairie-based Keystone Engineering provided design assistance and Houma-based Gulf Island Fabrication built foundation jackets and piling.

LM Wind Power – Technology Center Americas
LM Wind Power, a unit of GE Renewable Energy, invested in a new Technology Center Americas facility to develop and test new techniques for designing and building wind turbine blades at its facility on the NASA Michoud campus outside of New Orleans, Louisiana.

Edison Chouest builds first Jones Act compliant SOV
Edison Chouest Offshore (ECO), Ørsted and Eversource announced the execution of a long-term charter agreement for the provision of the first-ever U.S. flagged “Jones Act” compliant Service Operations Vessel (SOV). The SOV will be engineered, constructed and operated by ECO as an integral part of the operation and maintenance of several offshore wind farms.
GNOwind Alliance coordinates efforts of public and private entities to foster the coastal Louisiana offshore wind energy hub.
THANK YOU

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