Port Fourchon

Holistic Resiliency of Energy, Environment, Community and Culture

Chett Chiasson – Executive Director
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Location, Location, Location

Port Fourchon is the southern-most Port in Louisiana, and the central-most energy services port along the entire Gulf of Mexico coast.
American Energy-Louisiana Based

- 2016 GoM Production 1.6M bbl/day
- 30% of US Energy is Louisiana Based
- Billions of Energy Assets on Louisiana Coast
- 35,000+ Energy Jobs in LA
- Port Fourchon currently services over 90% of all U.S. Gulf of Mexico deepwater activities.
- In total, Port Fourchon plays a strategic role in furnishing the nation with nearly 20% of its entire oil supply.
- All other US GoM ports combined can only service 25% of the infrastructure that Port Fourchon can service.
America’s Energy Economy

- What the Nation would lose if Port Fourchon was out of service for a 21 day period

<table>
<thead>
<tr>
<th>Impact on...</th>
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<tbody>
<tr>
<td>Business Sales</td>
<td>$11.2 Billion lost</td>
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<tr>
<td>Household Earnings</td>
<td>$3.1 Billion lost</td>
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<tr>
<td>Jobs</td>
<td>65,502 Jobs lost</td>
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From the 2014 publication *The Economic Impacts of Port Fourchon on the National and Houma MSA Economies* prepared by Dr. Loren C. Scott and Associates
Barataria and Terrebonne Estuaries
Commercial and Recreational Fishing
Developing on the edge...
Holistic Resiliency
Resilient By Design

• Facilities and Services Designed to a Higher Standard
Evolution of Design

Port Fourchon Continues Slip D Development, Focuses on Resilient Design

June 14, 2016 | TRN | Port Commission, Port Fourchon, Press Releases

(PORT FOURCHON, LA) - Today the Greater Lafourche Parish Commission (GLPC) announced the completion of the bucket dredging phase in Slip D, the latest development in Port Fourchon's Northern Expansion area. The initial dredging of Port Fourchon's new Slip D, which broke ground less than one year ago, is the most recent benchmark completed in the progression of the port's Northern Expansion development plan.

Bucket dredging is the first physical step in the creation of a new slip in a port development area. To carve out the footprint of Slip D, contractors used a barge mounted bucket dredge and dragline to dig the outline of a 3,800 foot long and 1,900 foot wide slip, like scooping out the first showfuls of earth at a groundbreaking.

During this first phase of work, over 481,000 cubic yards of material were excavated. Every cubic yard of dredged material is used beneficially in Port Fourchon, and in Slip D, initial dredged material is being used to form containment levees for the next phase of the project's construction. It took workers seven months to complete this first phase of excavation in Slip D.

GLPC is on schedule to start work on the next phase of the project: hydraulic dredging - by early 2017. The hydraulic dredging work will be done in two stages as part of Port Fourchon's unique focus on enhancing the resiliency of the port through continued development. The materials excavated in the first phase of hydraulic dredging will be used to construct over 60 acres of wetlands in the port area, which will not only fulfill the port's development permit obligations but also double as a natural protective buffer for the port from hurricanes and storm surge.

"Over the years, we have taken an increasingly holistic approach to our port's development," said Chett Chiasson, Executive Director of the Greater Lafourche Port Commission. "Since Hurricane Katrina, we have focused on making sure that our projects and infrastructure are built to a higher standard. We have increased the base elevation of our newer slips, our roads, bulkheads, you name it. In addition to building higher and harder, we have also continued to add hundreds of additional acres of wetlands through our own development to protect our tenants' assets in a natural way," he added.

This innovative "resiliency in design" approach to the continued evolution of Port Fourchon, the nation's premier oil and gas service port, demonstrates the vision of the forward-thinking Port Commission in its role as a partner in the strengthening and advancement of the oil and gas service industry. GLPC is also focused on a sustainable and affordable partnership with the tenants and users of Port Fourchon, highlighted by the Port Commission's willingness to work with tenants and users on innovative new projects.
This segment of elevated roadway from Leeville to Fourchon is a $350 million investment in transportation infrastructure that leads to Port Fourchon.
Grey Infrastructure: Road Access

$360 million more needed for Phase 2, Golden Meadow to Leeville
Mitigation and Restoration

At Port Fourchon, mitigation is done in a way which restores the historic landscape.
This once vibrant marsh and cheniere ridge platform had degraded into open water, and through the mitigation works completed in conjunction with the expansion of the Port, nearly 1,000 acres of wetlands have been restored to the landscape to date.
Port Fourchon worked in conjunction with several public and private partners to complete this innovative restoration project, including:

➢ Barataria-Terrebonne National Estuary Program
➢ Gulf of Mexico Program
➢ Gulf of Mexico Foundation
➢ National Oceanic Atmospheric Administration
➢ Louisiana Department of Natural Resources
➢ Shell
➢ USDA National Resources Conservation Service
Restoration Partnerships

2005-11 Maritime Forest Ridge Shaping, planting support: $100,000+

2012 – Fourchon Beach Dune Restoration Geotube construction: $500,000

Today - SMART initiative: Part of $1,000,000 partnership between Shell and BTNEP
Slip D Mitigation – Integrated Land Use
It Takes a Village… or a Plan

Louisiana’s State Coastal Master Plan
- 50 year, $50 Billion Ecosystem Level
- Over $300 M committed or constructed in vicinity of Port Fourchon under 2012 plan
- Redrawn every 5 years
- Approved by Legislature
- All LA enviro $ from Deepwater Horizon are dedicated to Master Plan projects
Caminada Headlands Projects

- Phase I +$70M (CPRA, CIAP, Surplus)
- Phase II +$145M (NFWF)
- Borrow source – Ship Shoal
- First major project funded with BP spill fines
- Delivered by Louisiana CPRA
- Taken together, Cam I and II represent the largest coastal project ever built.
Fourchon Beach Geotubes Project

$3,500,000 including funds from FEMA, Shell, and FRRI
**Currently appealing FEMA decision not to fund repair work following March 2016 storms

5,300 Linear Feet
30’ diameter geotube
10’completed dune height
The Greater Lafourche Port Commission was recognized by the American Association of Port Authorities with a 2015 AAPA Environment Award for the GLPC’s Geotube and Beach Dune Restoration Project at Fourchon Beach.
Future Development is Holistic Resiliency

• Future development consistent with Holistic Resiliency principles
• Beneficial use of dredge materials in all things
• Leveraging Development Dredging for Ecosystem-level Restoration and Critical Infrastructure Protection