

Deep Water Port *notes*

The News Portfolio of The Connecticut Deep Water Port Community
New London . New Haven . Bridgeport

GZA Marine and Waterfront and Hazard Risk Management Services are Experiencing Growth



GZA was on the U.S. Coast Guard Academy design-build team with M.A. Mortenson, which involved replacing the Jacob's Rock Causeway and Main Pier as well as revetment replenishment, shoreline road reconstruction and utilities. GZA also provided permitting, subsurface water exploration program and design of pile foundation options for the new piers and causeway with mitigation of impacts to fish and shellfish during spawning seasons to maintain the project schedule.

GZA, a supporting member of the Connecticut Maritime Coalition (CMC), is committed to supporting Connecticut's maritime businesses and coastal municipalities. We planned and presented at the Connecticut Maritime Coalition Business Leadership Seminar at Gateway Community College in November 2014 and continue work with CMC in advocating for Connecticut's maritime industries.

GZA is a 570-person full-service engineering and applied science consulting firm working out of 26 offices located throughout the Northeast, Mid-Atlantic and Great Lakes regions of the U.S. (including 3 offices in Connecticut), and with annual revenues of about \$110M. GZA services are organized in five core practice areas: Water; Geotechnical; Environmental; Ecology; and Construction Management. GZA's Water Services include Marine and Waterfront Engineering; Hazard Risk Management; Water Resources; and Dam and Levee Engineering.

GZA's Marine and Waterfront services include design of marine infrastructure, coastal processes, modelling of storm surge, waves and sediment transport, beach nourishment, marine geotechnical engineering and dredging and sediment management. GZA designs marine infrastructure for the power, industrial, boat building, port facilities and recreational boating industries. GZA's Hazard Risk Management services include natural hazard vulnerability assessment, asset management planning (including benefit/cost analyses) and mitigation and resiliency design. GZA's Water Services are experiencing rapid growth due to the challenges of an aging U.S. infrastructure, climate change and the effects of natural hazards, the demand for potable water supply and the emergence of renewable offshore wind power generation.

Recent GZA Water project highlights include:

- Providing detailed computer flood modeling of the Connecticut shoreline under current and future time horizons, including the New Haven and Bridgeport harbors. The model results, which were developed using state-of-the-art modeling technology, are available for use.
- GZA is on the Deepwater Wind project team for the design and construction of the wind turbines offshore of Block Island, RI. These are the first offshore wind turbines constructed in the U.S.
- Modeling the flood hazards at 35% of the U.S. nuclear power fleet, including Dominion's Millstone Power plant in Waterford, CT. These studies were required by the NRC in response to the earthquake and tsunami tragedy at Fukushima Daiichi Nuclear Power Plant in Japan.
- GZA is currently working on the coastal resiliency plan for the Town of Stratford.
- Designed waterfront structure improvements of Sandy-damaged structures for a power plant in Bridgeport.
- Designing the new Al Bennett Fishing Pier for the City of Bridgeport with FEMA Disaster Recovery funds for restoration of historic structures.
- Assessing flood impacts and design mitigation measures for New Haven's Long Wharf area for the City of New Haven Plan Department under the Housing and Urban Development Community Development Block Grant Disaster Recovery Fund program.



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Recent GZA Water project highlights (continued):

- Designed upgrades to Gulf Oil's waterfront structures at the New Haven Terminal.
- Designed the reconstruction of the marine facilities at the USCG Academy in New London.
- GZA assessed the flood hazards and mitigation requirements for design of two new combined cycle gas power plants on Long Island.
- GZA is currently designing several new marine bulkheads along New York City's Gowanus Canal in Brooklyn, as part of the environmental remediation of the canal.
- GZA completed flood hazard mitigation design for twenty New England electrical substations impacted by Sandy.

The company continues to live by the values instilled by our founders, Don Goldberg and Bill Zoino, who are the G and Z in GZA: respect, trust and concern for the well-being of every individual in the company; accountability; leadership; client advocacy; technical excellence; and innovation in our approach to meeting our clients' needs. We call this Proactive by Design™. GZA will continue to evolve and thrive and support CMC's mission in serving, growing and sustaining a 21st Century Maritime Industry in Connecticut.



To learn more about GZA, visit www.gza.com

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CMC Membership Includes Diverse State Maritime Interests

Organized in 2000, the Connecticut Maritime Coalition is a non-profit trade association advocating for Connecticut's Maritime Industry.

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Read Deep Water Port notes online at www.ctmaritime.com

CONNECTICUT MARITIME COALITION



The Connecticut Maritime Coalition is a non-profit trade association facilitating the competitiveness of Connecticut's maritime industries. Our member network is mostly composed of small and medium-sized businesses.

To join **the Connecticut Maritime Coalition** or to advertise your business in **Deep Water Port notes**, please contact:

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Advocating for Connecticut's Maritime Industry