

# ENERGY IN THE MARITIME ENVIRONMENT



**Rear Admiral Peter Gautier**  
**U.S. Coast Guard Eleventh District Commander**

**AAPA Seminar for Port  
Governing Boards**

**19 June 2019**

# LIQUIFIED NATURAL GAS

Plan for Cheniere-Corpus Christi LNG Export Facility



# LIQUIFIED PETROLEUM GAS



# Emission Control Area (ECA) & CARB Ocean-Going Vessel Fuel Regulation

## IMO Worldmap for ECA's



# TIERED ENGINE REQUIREMENTS

Tug Boat in San Francisco Bay





# LNG as a Marine Fuel & Bunkering Facilities

Harvey Gulf LNG in Port Fourchon, Louisiana

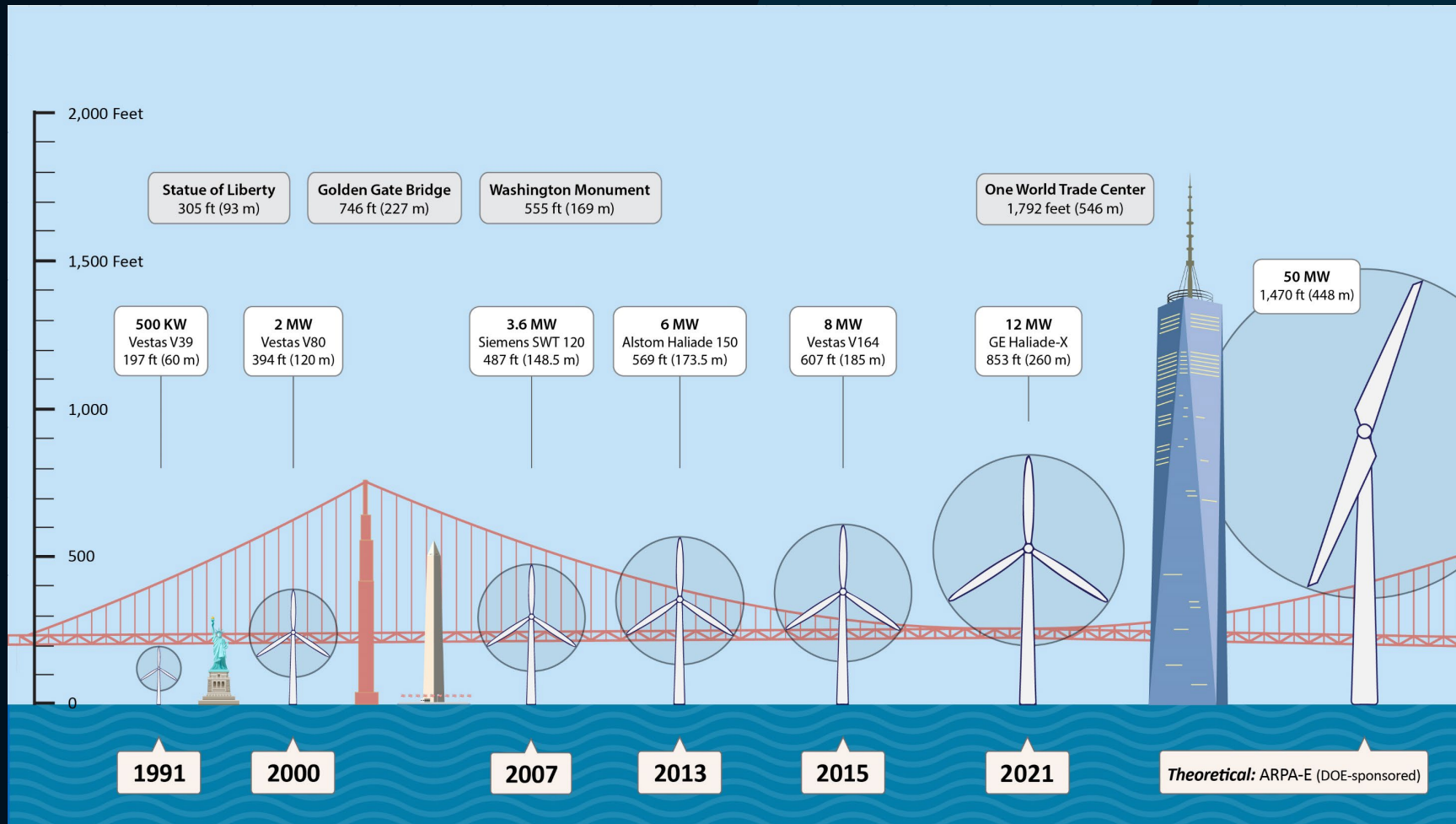


# NOVEL VESSEL PROJECTS

## Golden Gate Zero Emission Marine Hydrogen Fuel-Cell Ferry



# WIND PROJECTS





# PORT PARTNERSHIPS



UNITED STATES COAST GUARD  
★ ★ ★ ★  
**MARITIME COMMERCE  
STRATEGIC OUTLOOK**

