





SECNAV Energy Goals



*Increase Alternative Energy
Department-wide*

*Increase Alternative Energy
Sources Ashore*

Reduce Non-tactical Petroleum Use

Sail the "Great Green Fleet"

Energy Efficient Acquisitions



Great Green Fleet Launches



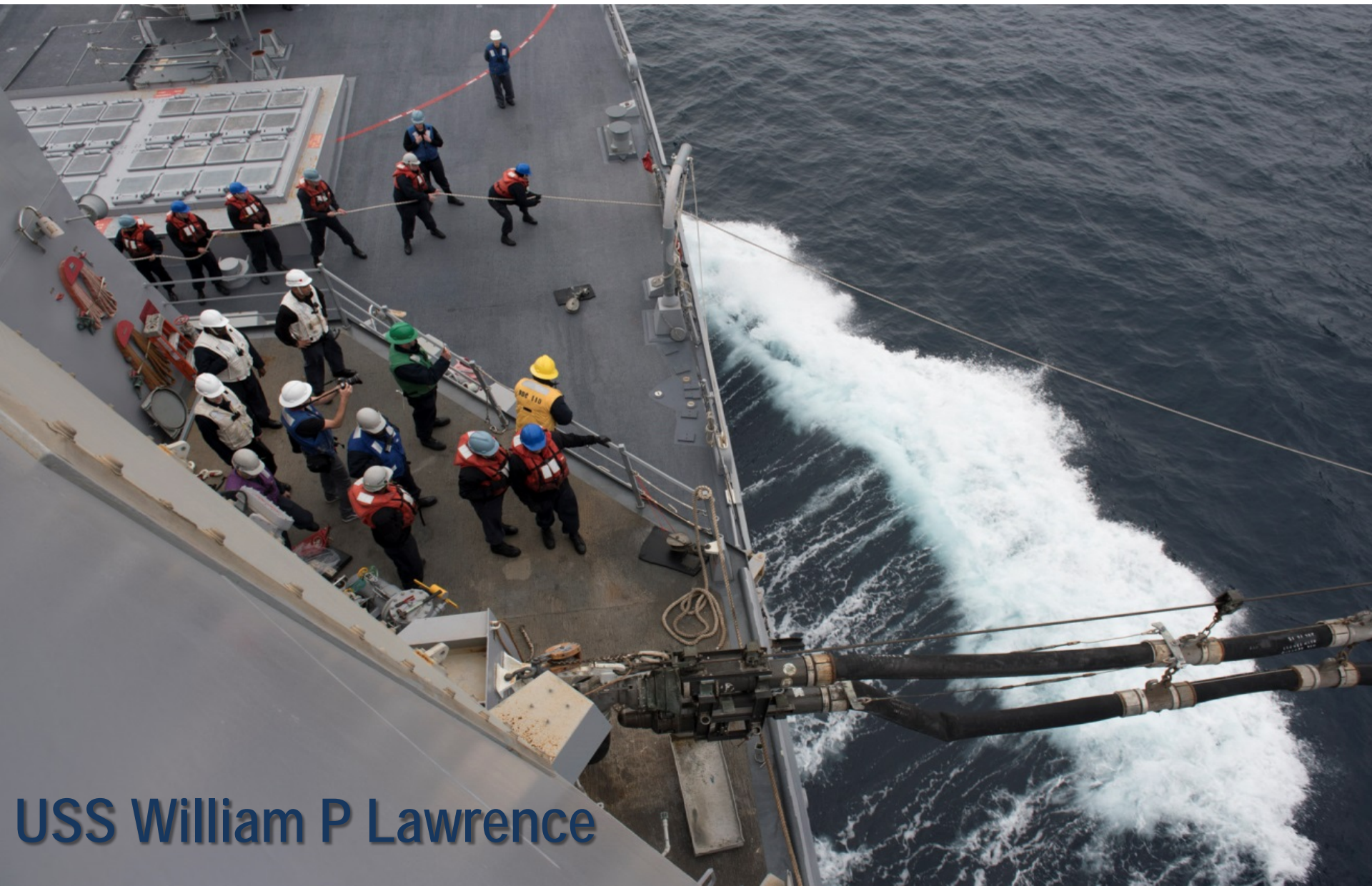
September 2015 – DLA Energy awards contract for alternative F-76

January 2016 – USS John C Stennis CSG deploys on alternative fuel, launching the Great Green Fleet





Great Green Fleet Launches



USS William P Lawrence



June 2016



First alternative fuel RAS with foreign oiler







July 2016





RIMPAC 2016



11+ million gallons to 9 countries



August 2016 – USS Stethem in Australia





August 2016 – Statement of Cooperation with Queensland



Navy Synthetic Fuel Qualification Roadmap



2017

CHCJ Added to JP-5 Spec

2016

SIP Added to F-76 Spec

2016

SIP and ATJ Added to JP-5 Spec

2014

FT & HEFA Added to F-76 Spec

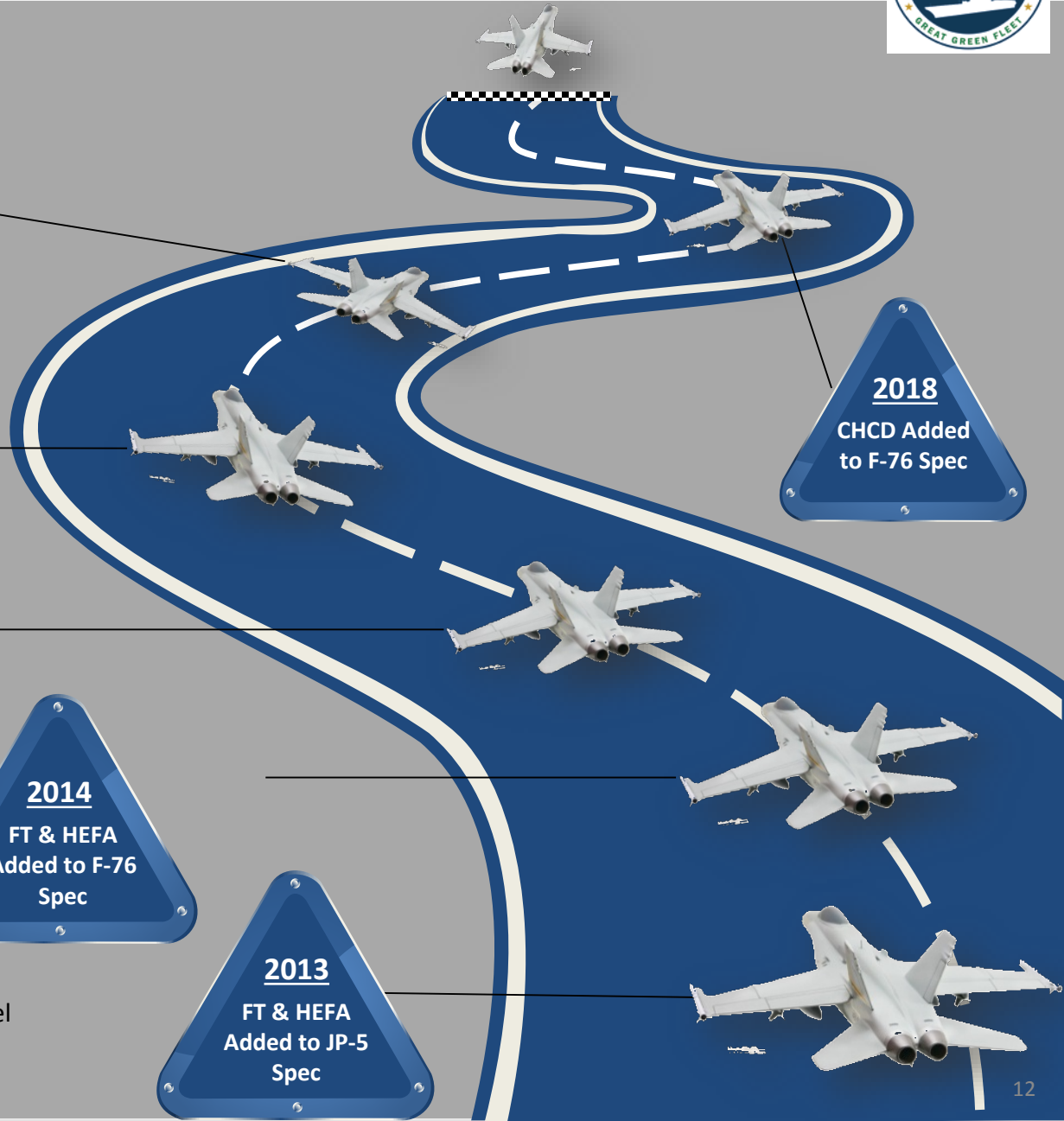
2013

FT & HEFA Added to JP-5 Spec

2018

CHCD Added to F-76 Spec

FT: Fischer-Tropsch
 HEFA: Hydrotreated Esters and Fatty Acids
 SIP: Synthetic Iso-Paraffins
 ATJ: Alcohol to Jet
 CHCD: Catalytic Hydrothermolysis Conversion Diesel
 CHCJ: Catalytic Hydrothermolysis Conversion Jet





Other Notable Progress



- The market is open. If it's in the MILSPEC, we'll take it. We've made sure the other Services will take it, too.
- To help build new markets for agricultural commodities, USDA makes Commodity Credit Corporation funds available for renewable jet fuel made from USDA-approved domestic feedstocks supplied by U.S. farmers
- International markets are expanding... In RIMPAC, eight of other navies agreed to use alternative fuels during the exercise, and that is just in the Asia-Pacific region. More to follow.



Maintain Interoperability



jetBlue



Synthetic Hydrocarbons in Aviation Fuels

2010: 50%



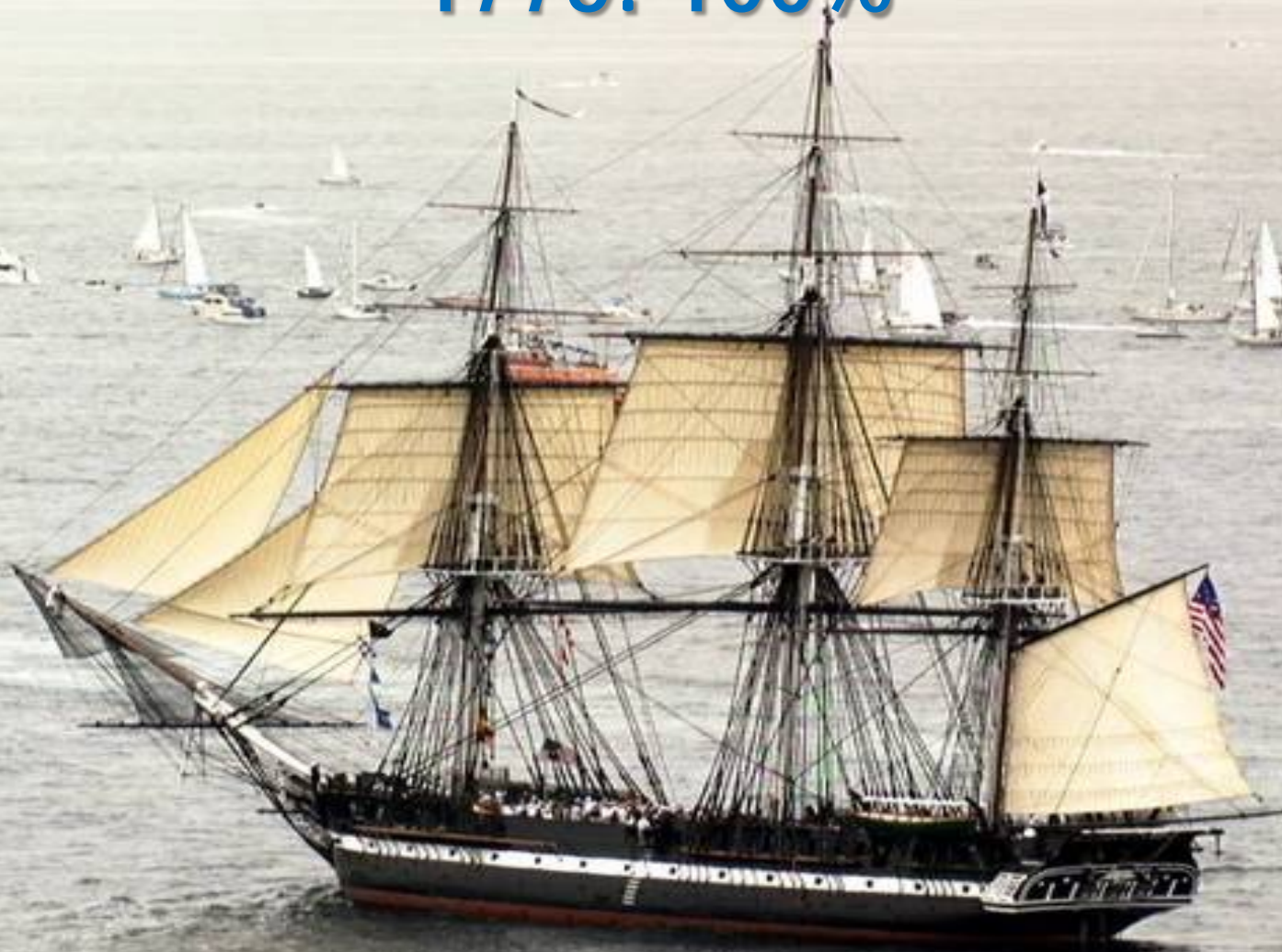
Synthetic Hydrocarbons in Aviation Fuels

2016: 100%



Renewable Energy in Surface Warfare

1775: 100%



THANK YOU



F/A-18E
Denali, Alaska