FAU

SOUTHEAST NATIONAL MARINE RENEWABLE ENERGY CENTER

Ocean Renewable Energy Conference X

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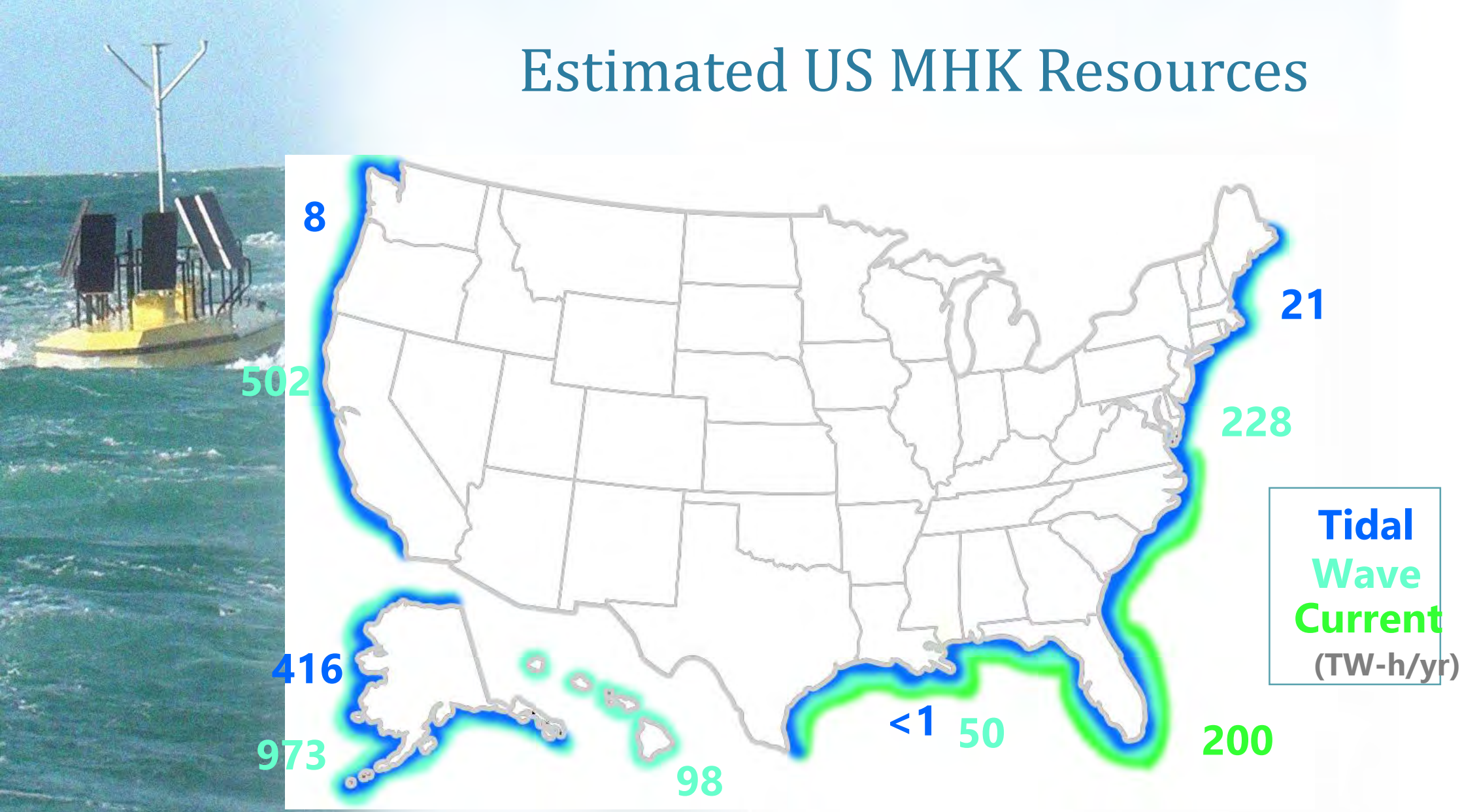
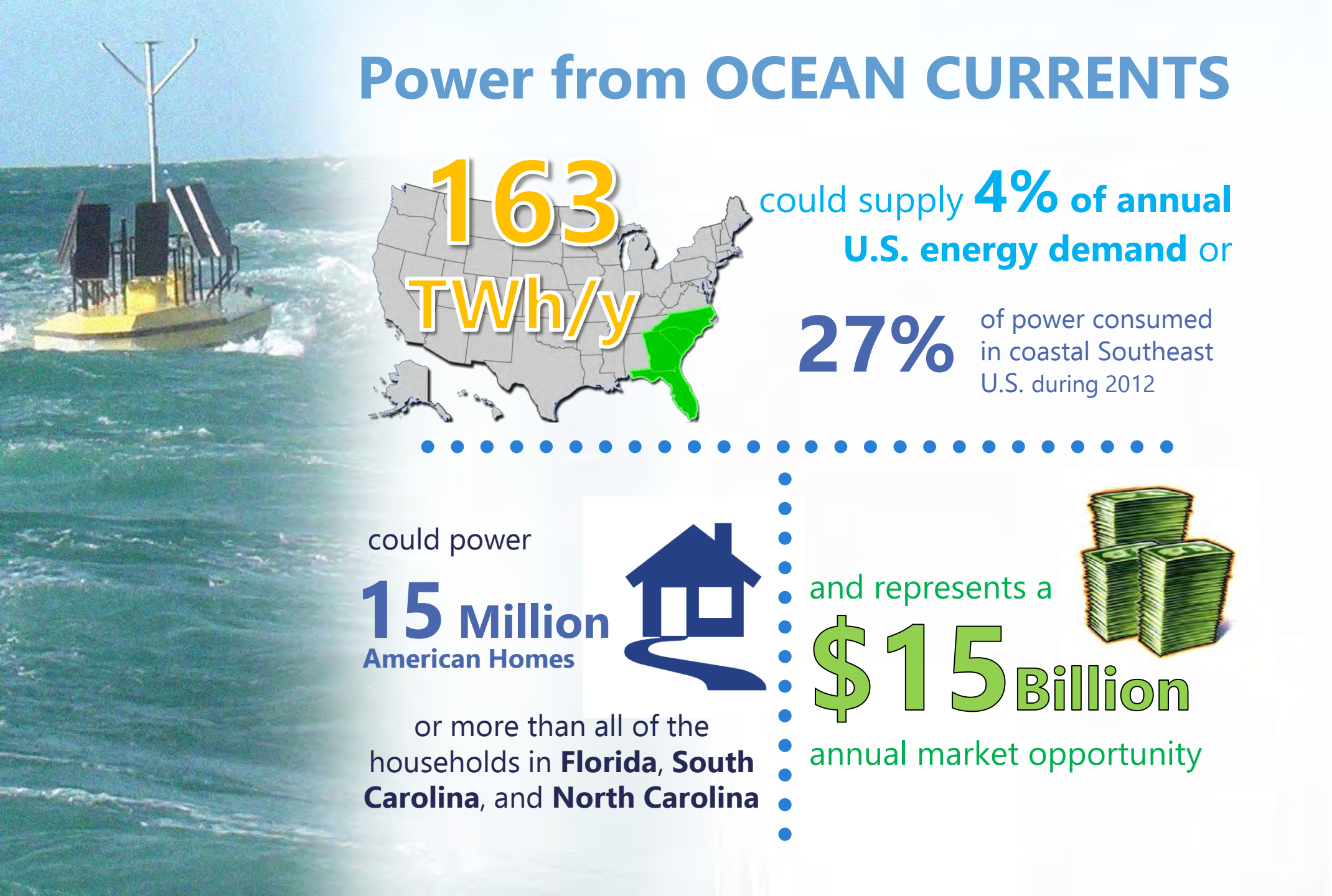
Estimated US MHK Resources





Power from OCEAN CURRENTS

163 TWh/y

could supply **4% of annual U.S. energy demand** or

27% of power consumed in coastal Southeast U.S. during 2012

could power

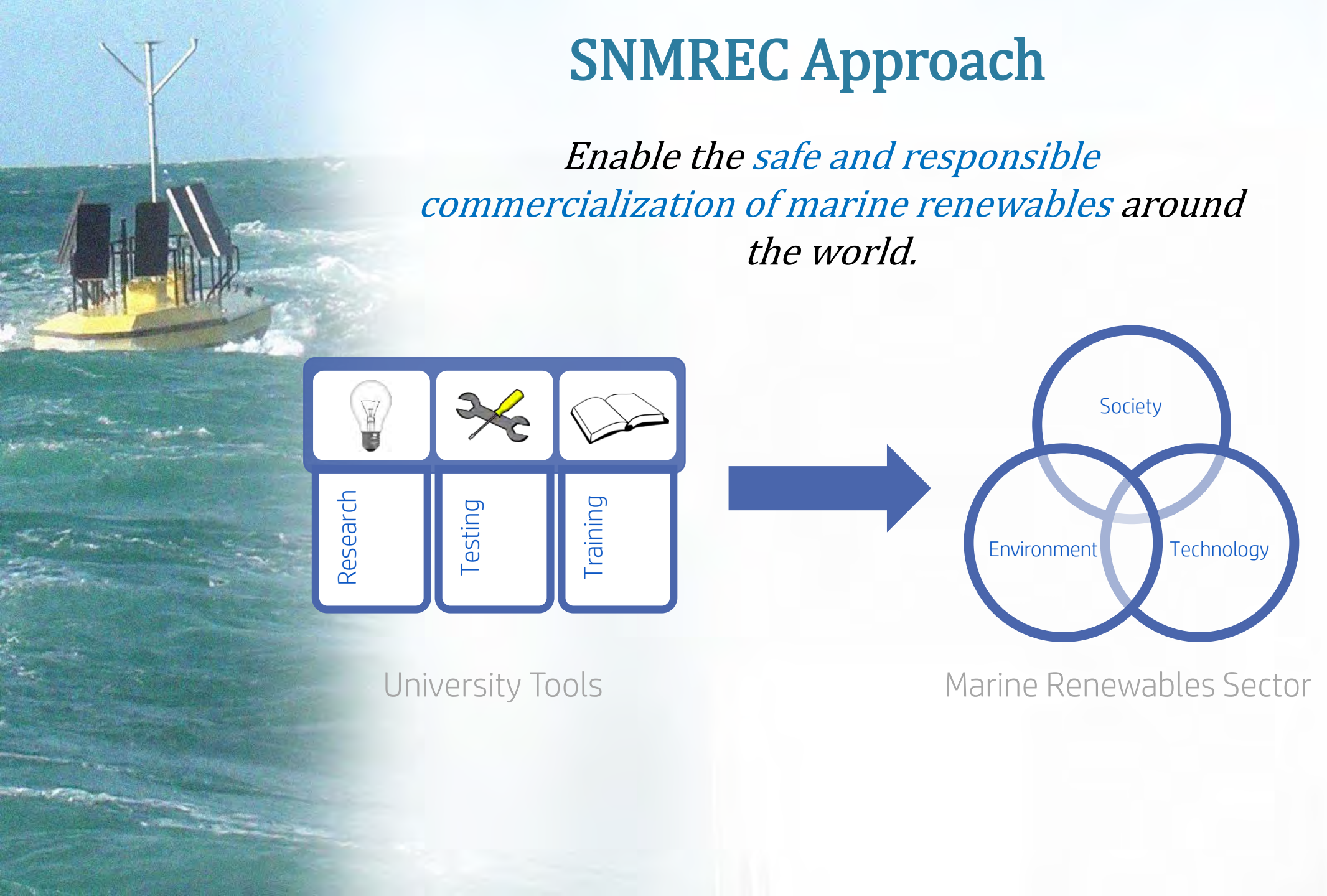
15 Million American Homes

or more than all of the households in **Florida**, **South Carolina**, and **North Carolina**

and represents a

$15 Billion

annual market opportunity



SNMREC Approach

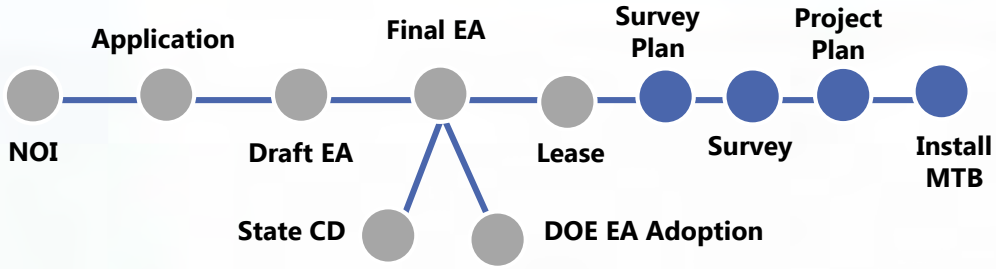
Enable the safe and responsible commercialization of marine renewables around the world.

University Tools

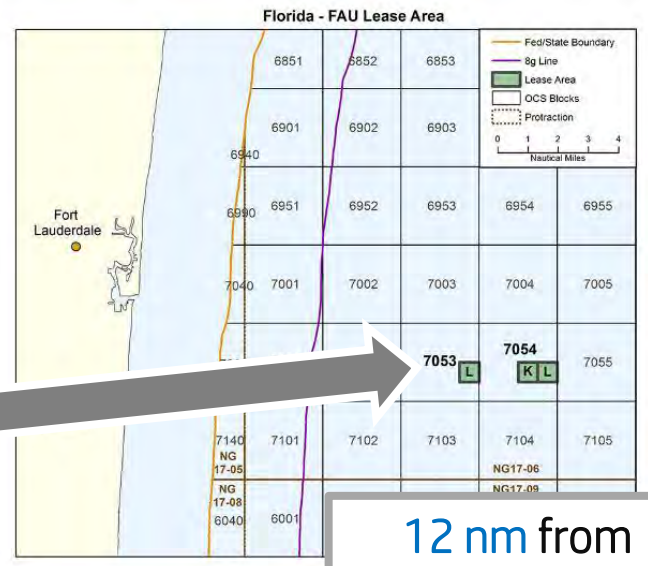
Marine Renewables Sector

Regulatory Framework

FIRST National Lease on the OCS:
Establishing the framework for future applicants

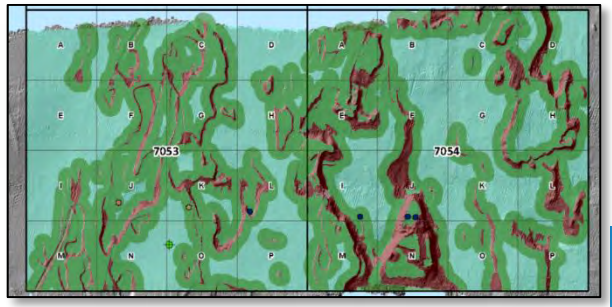


2007	July 2010	April 2012	August 2013	June 2014	→	2016

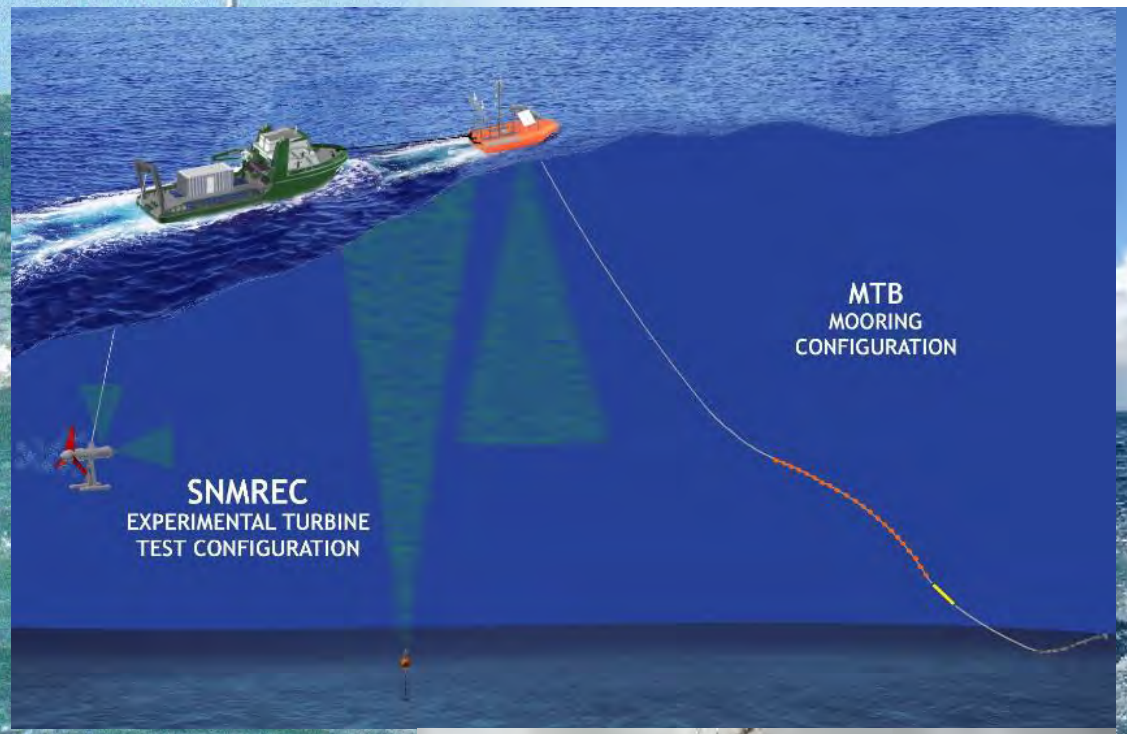


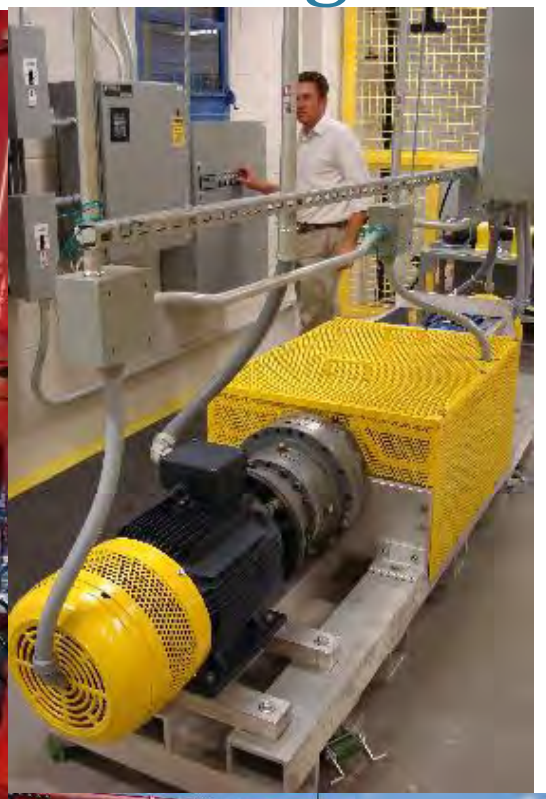
12 nm from shore
264 m depth

SNMREC Lease Areas = 1,068 Acres:
Block 7053, Aliquot L
Block 7054, Aliquots K & L



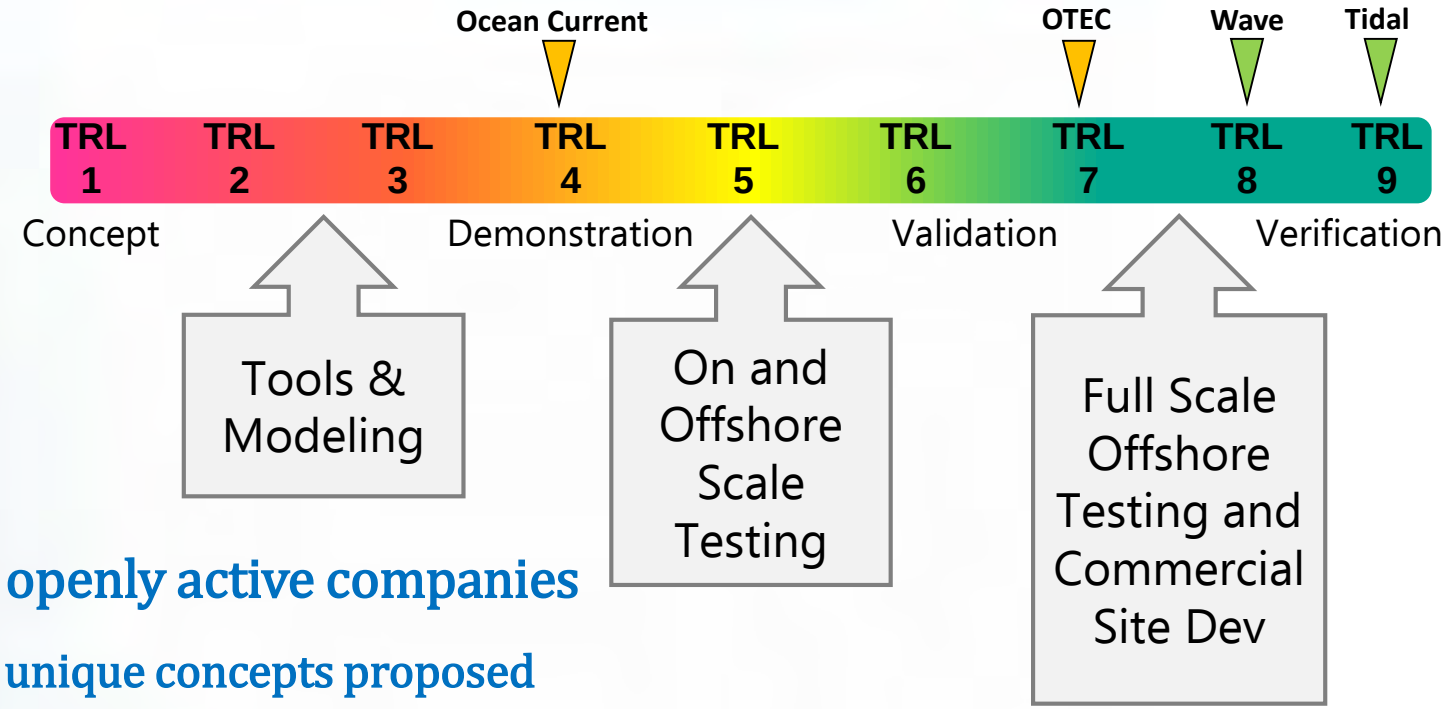
Small-scale Onshore/Offshore Testing





SNMREC: 20 kW 3-meter Rotor Research Turbine

Advancing Marine Energy Industry



Less than **10** openly active companies

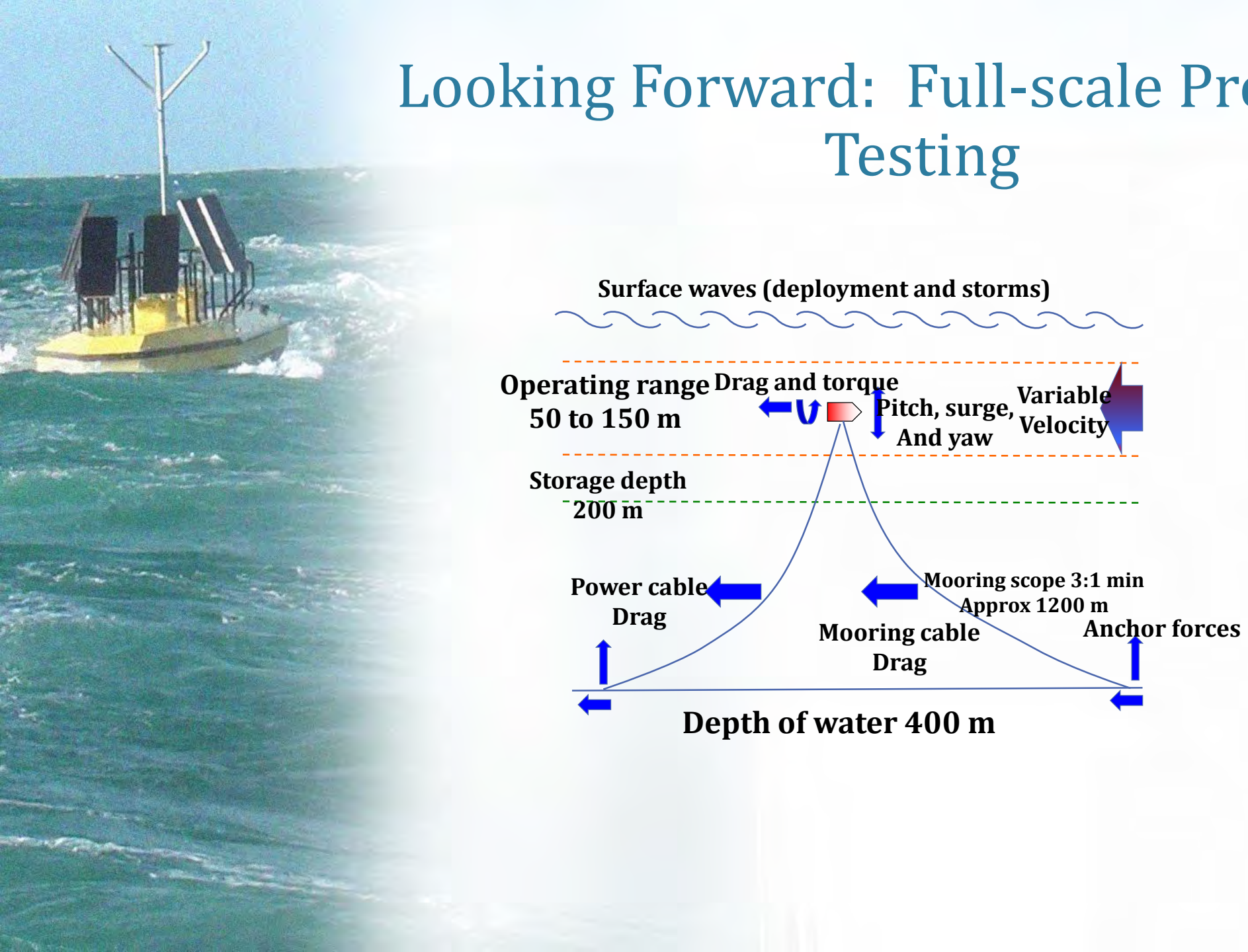
More than **10** unique concepts proposed

From at least **5** countries

With less than **5** lab scale tests performed and

Less than **4** field demonstrations ¼ scale or larger

0 production-scale prototypes

0 commercial leases

Looking Forward: Full-scale Prototype Testing