

OREG 2008 Fall Symposium

November 19-20 / Whistler, BC

“Project Development Pathways”

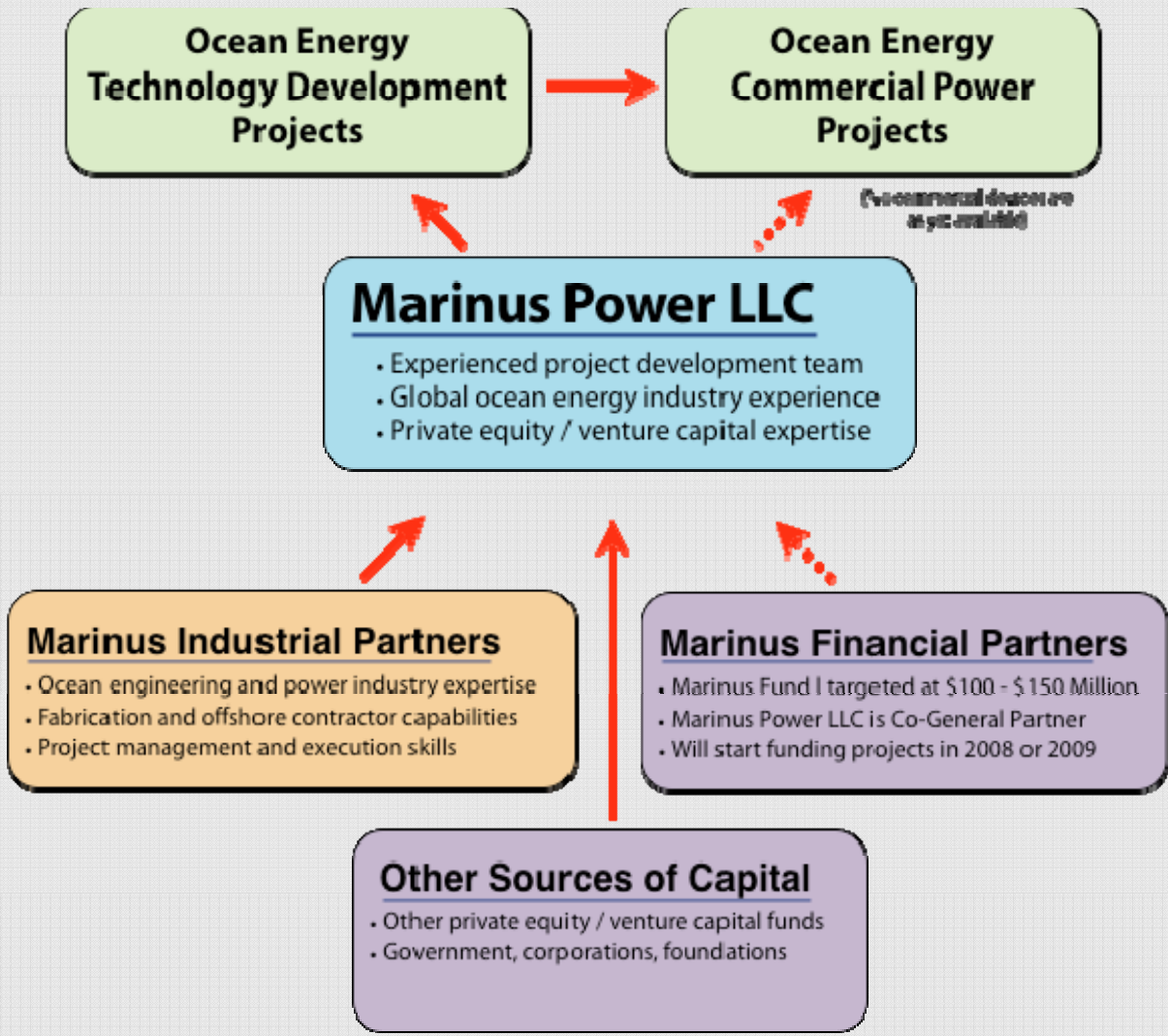
William Zakroff - CEO

Marinus Power LLC

Houston, Texas



Commercialization Status of Offshore Renewables Industry	Offshore Wind	Ocean Renewables (Wave, Tidal, Currents, OTEC)
Commercially Proven Energy Conversion Devices	Yes and No	No
Commercial Projects Under Development and Online	Yes (N. Europe)	No
Insurable and Financeable	Yes	No



Management Team

- William Zakroff, CEO
- James Adamson, Engineering
- Lee Gillis, Project Mgt
- Byron Neal, Regional Bus Dev

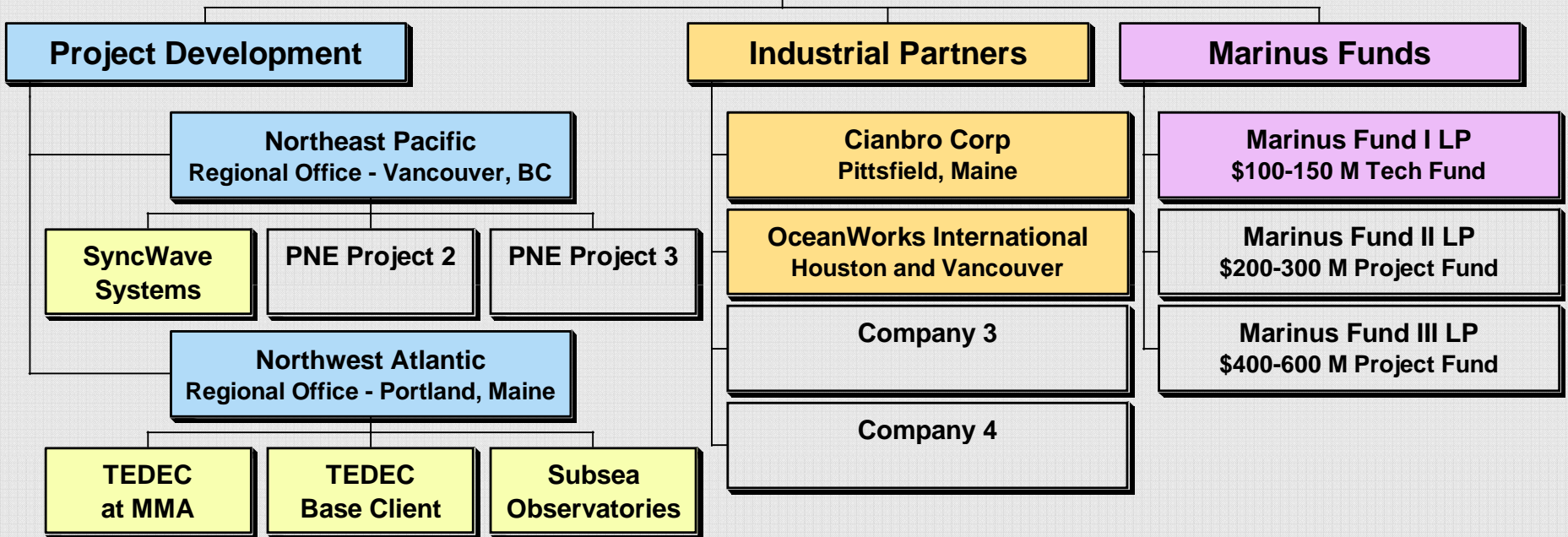
Industrial Partners

- Cianbro Corporation
- OceanWorks International

Advisory Board

- Ron Bolen, Project Finance
- David Rains, Electrical
- Nigel Protter, Tech Dev

Marinus Power LLC



Cianbro Corporation **(Marinus Industrial Partner)**

- Large, highly respected, employee owned construction company based in Pittsfield, Maine
- Ability to self-perform all construction specialties with dedicated construction engineering group
- Specialize in complex projects for marine, power generation, hydro, and energy systems
- 3 fabrication, coating, and dockside facilities in Maine and 1 dockside fabrication facility Baltimore
- Strong client relationships with power utilities, marine, and government organizations



OceanWorks International

(Marinus Industrial Partner)

- Subsea engineering and services company based in Houston, Texas and Burnaby, British Columbia
- Capabilities to design, build, install, operate, and maintain complex offshore and subsea systems
- Expertise in electrical, mechanical, and hydraulic system design, robotics, controls, and deployment
- 37,000 sq-ft facility in BC and 40,000 sq-ft facility in Houston with approximately 145 employees
- OREG member with ocean energy experience





SyncWave Power Resonator™ *wave energy converter*



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SyncWave Energy

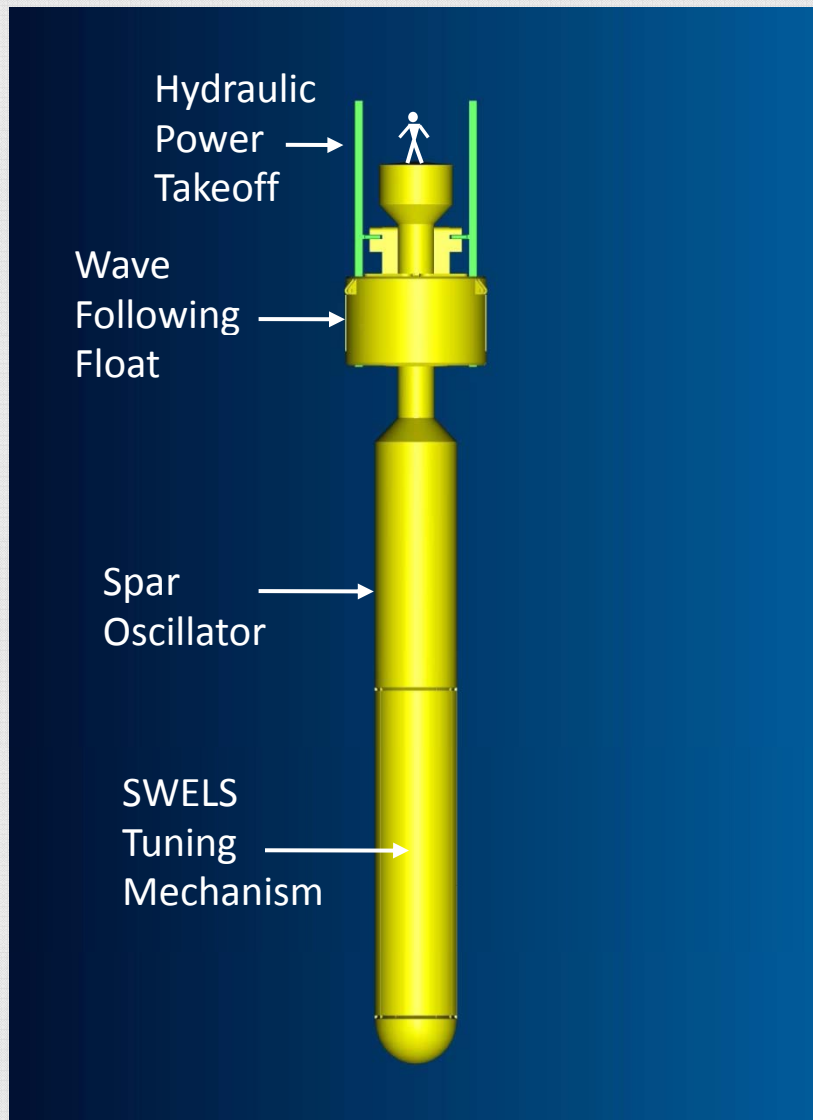


SyncWave Systems Inc. was jointly organized by Marinus Power LLC and SyncWave Energy Inc. to facilitate commercialization and financing

- SyncWave Energy brings venture leadership with patent and science team
- Marinus brings balance of senior management team with expertise in offshore engineering, finance, and project management plus Industrial Partners
- Registered as a British Columbia company on February 28, 2008
- SyncWave Systems is exclusive global licensee for SyncWave technology



SyncWave Power Resonator™ *wave energy converter*

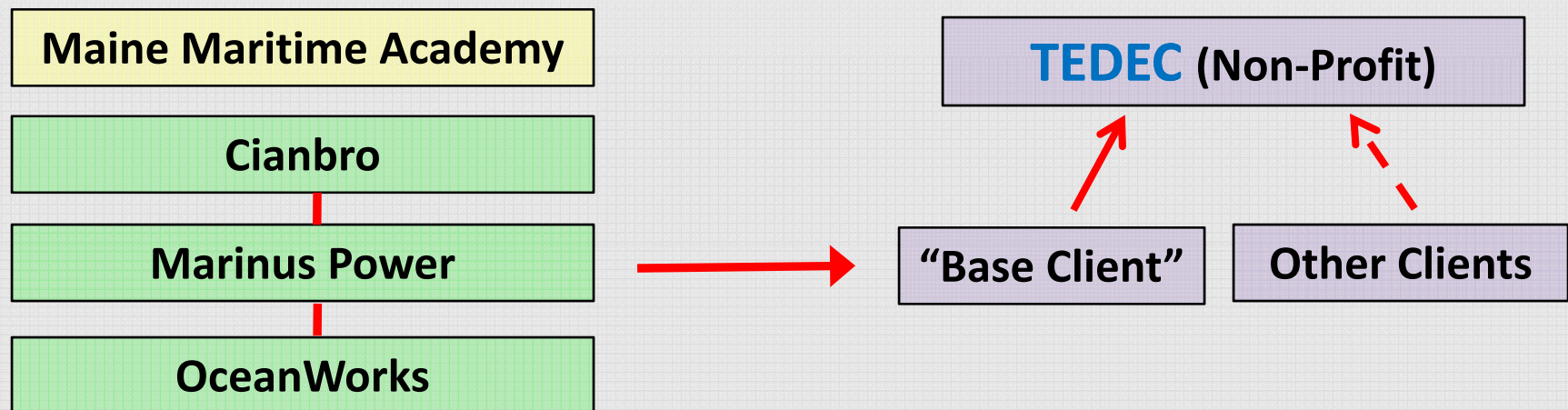


SyncWave Power Resonator *wave energy converter*

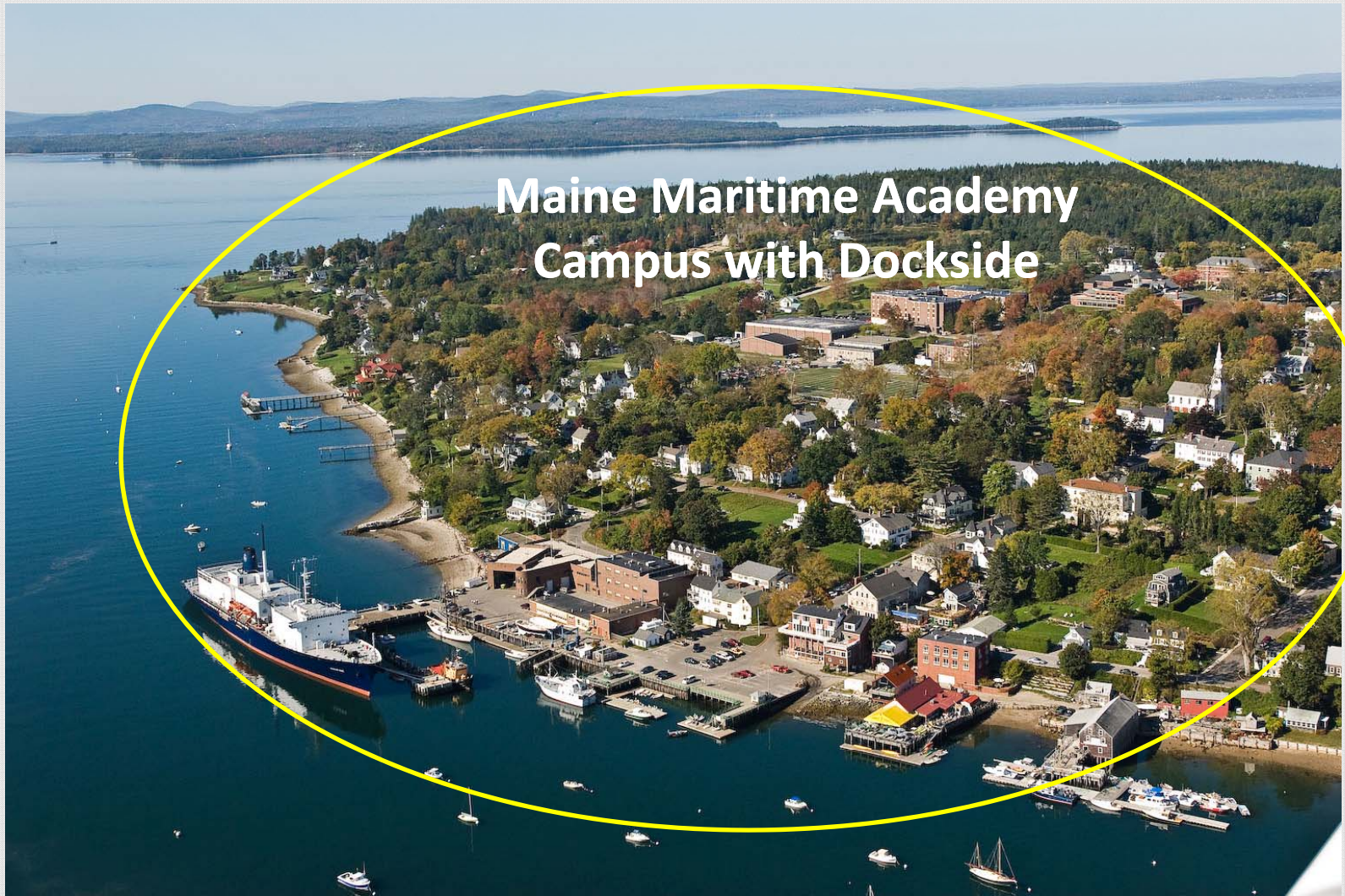
- Designed for survivability, reliability, and long-term continuous operation
- Slack-moored, self reacting point absorber
- Deploys anywhere over ~40 m depth
- Uncoupled variable inertia tuning system
 - Maximises resonant frequency response
 - Optimizes phase lag between spar-oscillator & wave follower
 - Drives hydraulic power take-off
- 20+ year design life

Tidal Energy Demonstration and Evaluation Center (Castine Maine)

TEDEC Founding Members



- Conceived in Fall, 2006 as a high quality, pilot scale tidal energy demonstration facility
- Similar to EMEC but less intensive, lower cost location with easy access and local support
- Will provide power to MMA campus while advancing knowledge base of all stake holders
- “Base Client” opportunity for Marinus and Industrial Partners



**Maine Maritime Academy
Campus with Dockside**

Maine Maritime Academy

(Public college located in Castine, Maine)

- Internationally recognized leader in providing marine-related engineering and technology programs
- Complementary programs offered in marine systems engineering , power generation, marine transportation, marine sciences, international business and logistics
- Enrollment of approx. 800 students with numerous applied technology laboratories and unique facilities
- Sophisticated simulation systems in navigation and ship handling, and power and steam plant operations
- Waterfront campus complete with an operating marina and workshops, a fleet of training and research vessels



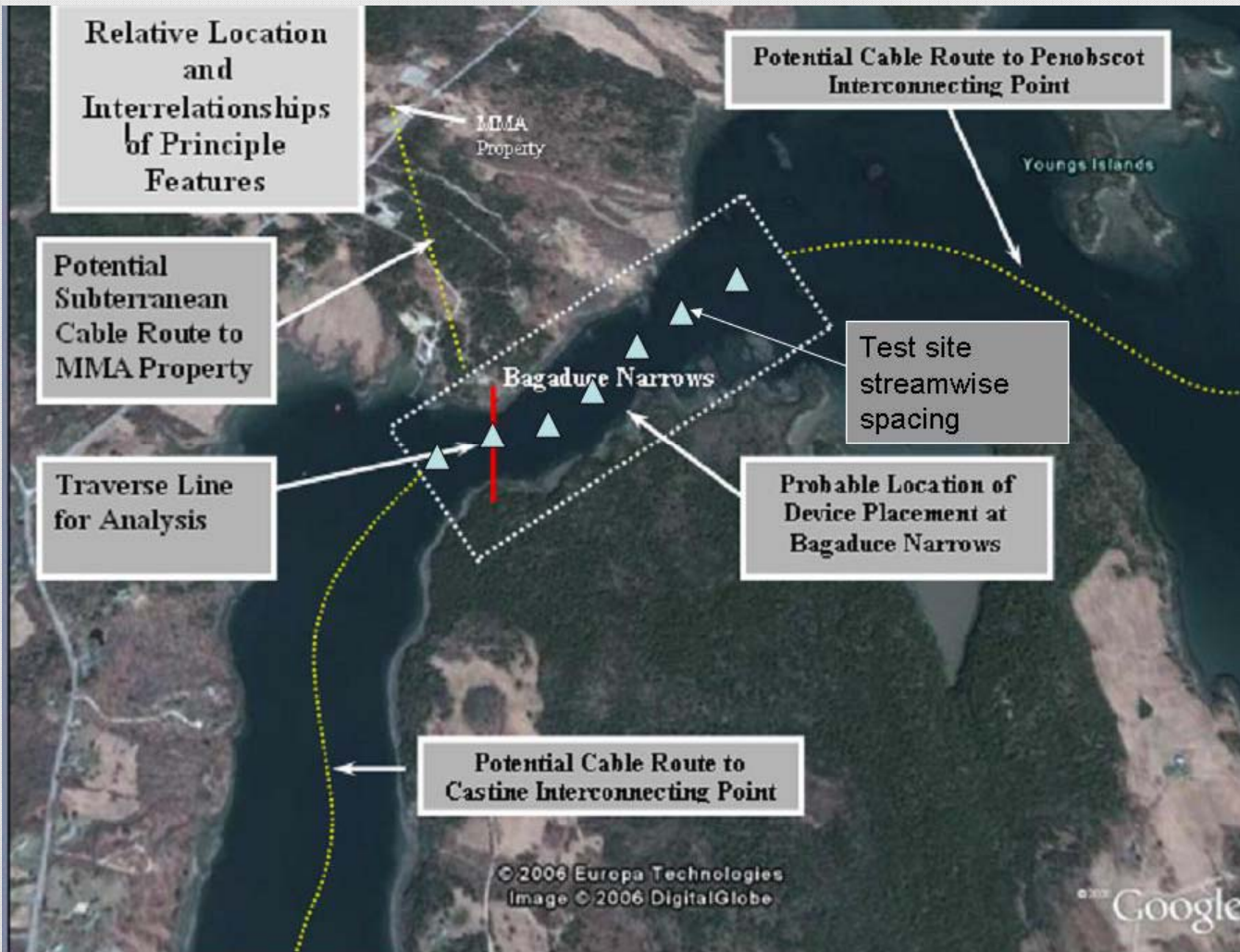
TEDEC Mission Statement

- **Committed to the development of renewable energy from the oceans as a clean, economically viable, environmentally responsible, and sustainable source of power**
- **Initial focus on tidal energy before expanding into other ocean energy technologies**
- **Provides infrastructure, permits, expertise, and services to facilitate and support developers of ocean energy devices and power generation systems**
- **Serves as an interface between academic research and industrial application, between prototype engineering and commercial production, between community and environmental concerns and the impact of these technologies on all stake holders**
- **Contributes to development of environmental protocols, community methods of engagement, performance criteria, permitting methodologies, and oversight processes**



TEDEC at MMA

- FERC Preliminary Permit #12777
- Issued Oct 9, 2007
- Covers Bagaduce Narrows and Castine Harbor
- Other sites under consideration



Bagaduce Site

- Peak velocity at 2.2 meters/second
- Average velocity at 1.6 meters/second
- Average channel depth 10 meters
- Max. theoretical power available around 11 MW