



# Ocean Energy: Non-profits & Research Collaboration

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- **OREG**
- **The R&D Tiers**
  - Institutional level
  - Regional focus
  - International network capacity
- **Non-profit roles & opportunities**



# OREG

- **Formed in 2004**
- **Collaboration of academia, government, utilities, and industry**
- **Over 110 members**
- **Canadian and international**
- **Ensure Canadian leadership in the global ocean energy market**

# Institutional

- **Need an ocean energy champion**
- **Assessment of Resources**
  - Research expertise
  - Laboratory facilities
- **Building programs**
  - Research chairs
  - Students

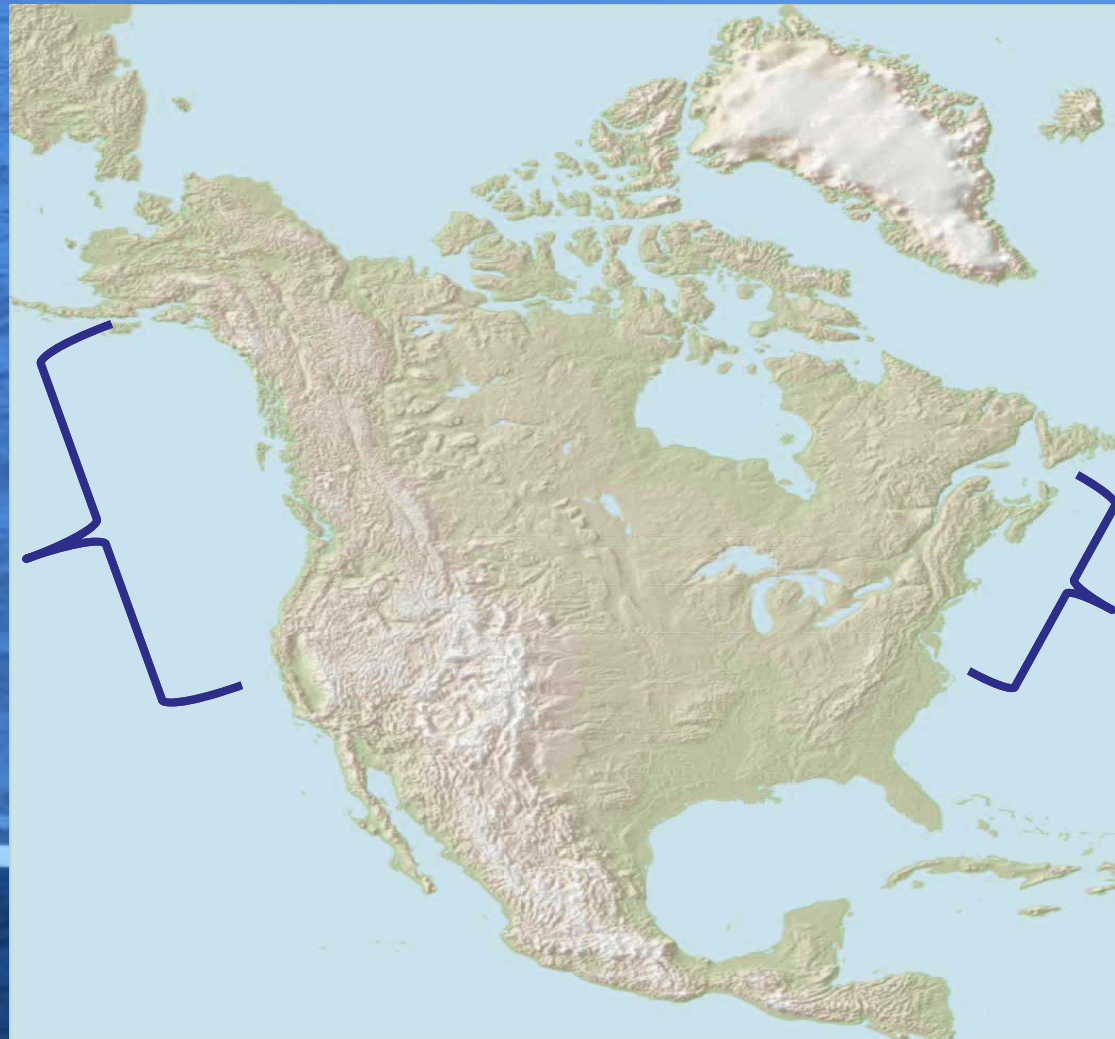


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# Regional Focus

**Pacific  
Ocean  
Energy  
Network**



**East  
Coast  
Network**

# Regional Focus

- **Ecosystem regions**
  - Species
  - Geology
  - Traditional economic use
  - Electricity grids
- **Connections to utilities, industry, government, research institutes**

# International Network Capacity

- **Expertise**
  - Research and joint studies
- **Facilities**
  - Labs, tanks, modelling
- **Demonstration and Development Centres**



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# International Network Capacity

- **Advancement through avoiding repeating research**
- **Find gaps that others can fill**
- **Maintain current**
- **Standards development – best practices for O&M safety, electrical connections, technology verifications**



# International and National Collaborations

- **PNWER**
  - Pacific Ocean Energy Network
- **Canadian Marine Energy Research Network**
- **UK ties**
- **EU ties**



# North East

- **Research Institutes**
  - Private
  - Government
  - Academic
- **Utilities and systems operators**
- **Government**
- **Industry**

# North East

- **Bay of Fundy**
  - Species interactions
  - Operational requirements
- **Regional Grid Connection**
  - Utilities requirements
  - Interconnection studies
- **Nova Scotia demonstration centre**

# NGO Roles

- **Neutrality**
  - 3<sup>rd</sup> party
  - Technology neutral
  - Government preferences for working with associations

# NGO Roles

- **Fund delegation**
  - As project manager
  - Through call for proposals
- **Examples:**
  - Oregon Wave Energy Trust
  - EU Ocean Energy Association

# NGO Roles

- **Facilitator**
  - Bring parties together
  - Communicate industry needs to communities or government (stakeholder awareness)
  - Provide inputs to utilities and government

# Conclusion

- **Think in tiers**
  - Local, regional, international
- **Look to examples**
- **Opportunities in the North East**



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# Spring Meeting

- Bay of Fundy region
- C-MER progression
- Regulatory issues and experiences
- Environmental assessment experiences



# Contact

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