

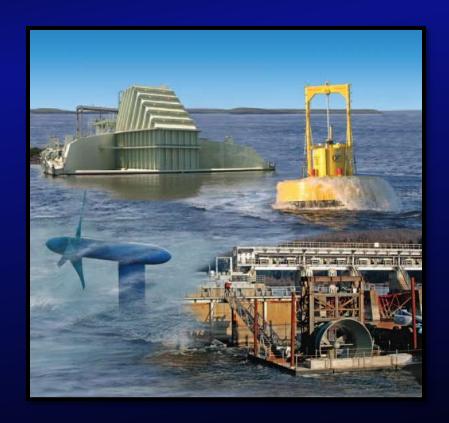
Hydrokinetic energy projects

Generate electricity from waves or currents

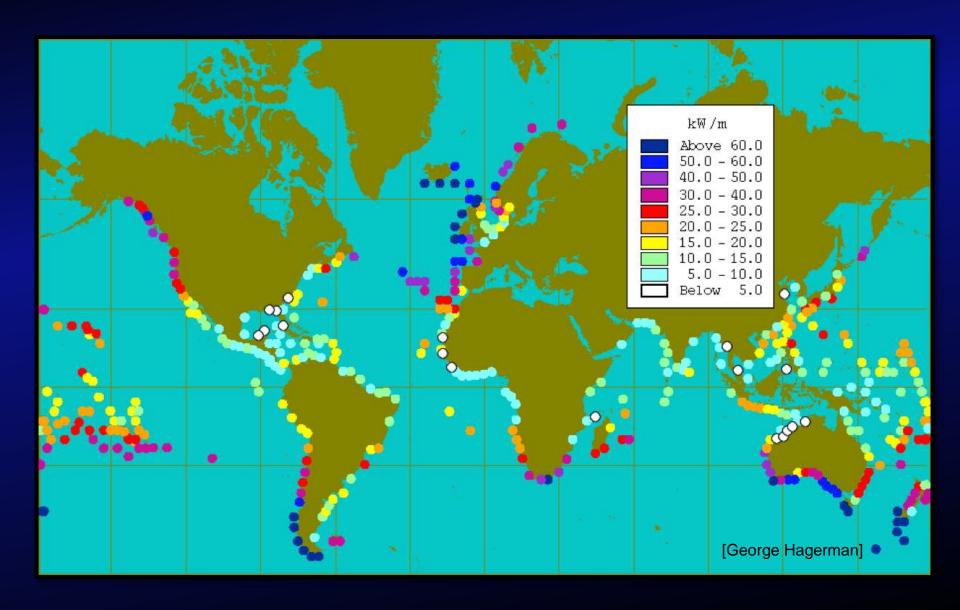
- Ocean waves
- Ocean currents
- Tidal currents
- Rivers

New technologies

- Great promise
- But unknown impacts



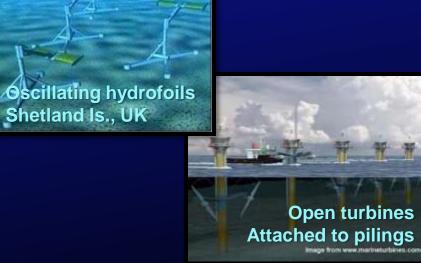
Power from ocean waves

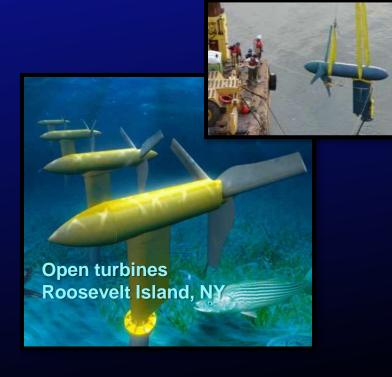


Example current energy projects









Example wave energy projects









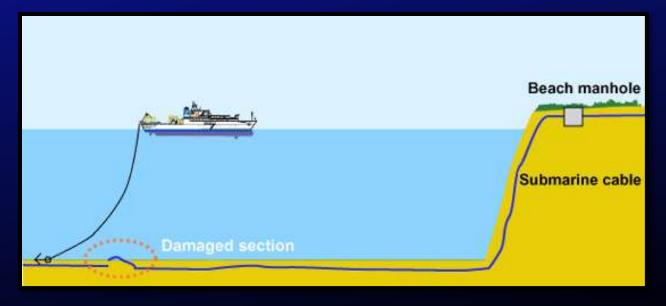


Getting power to the grid

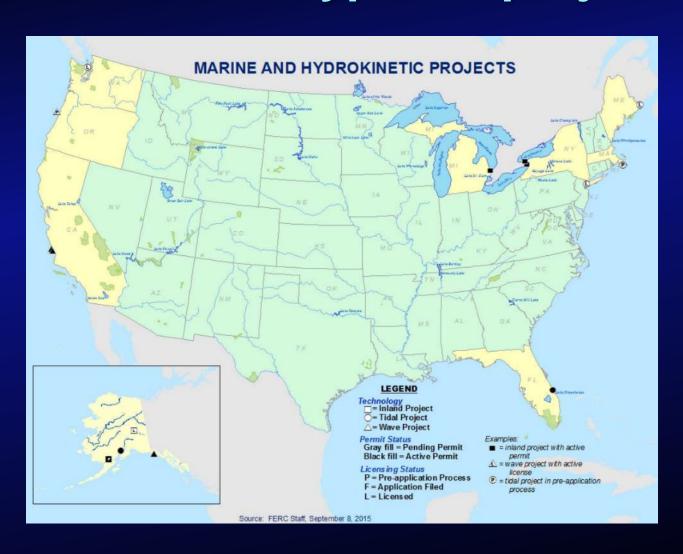




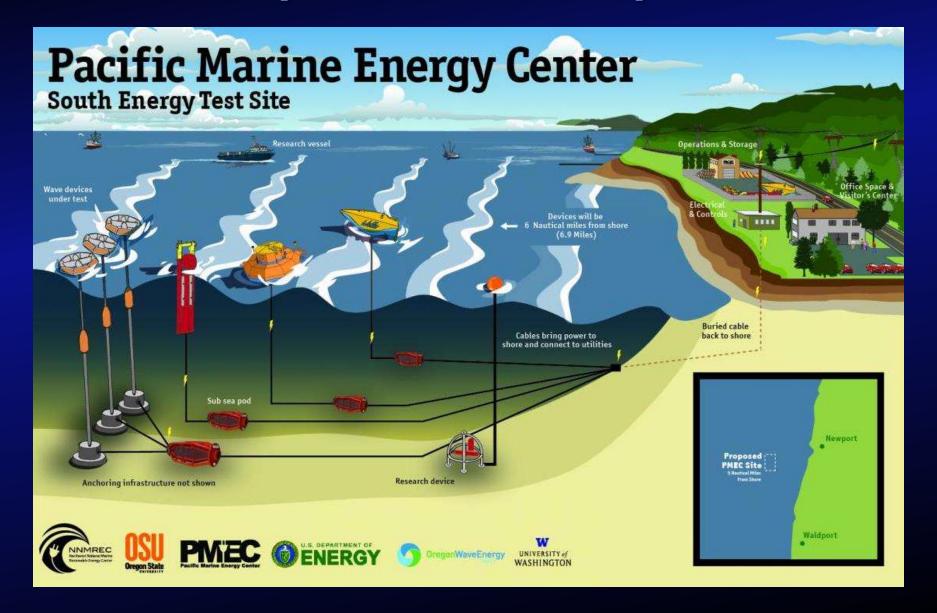




Number and types of projects



Cooperative Development



Potentially affected marine recreation





Access restrictions and safety



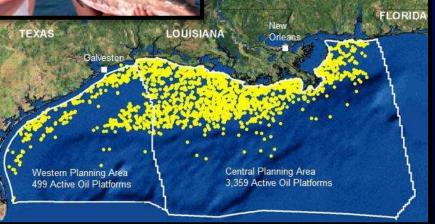


Impact depends on

- Type & size of restriction (exclusion vs. restriction)
- Importance of recreation
- Available substitutes

Access restrictions Boating impacts





MISSISSIPPI

ALABAMA











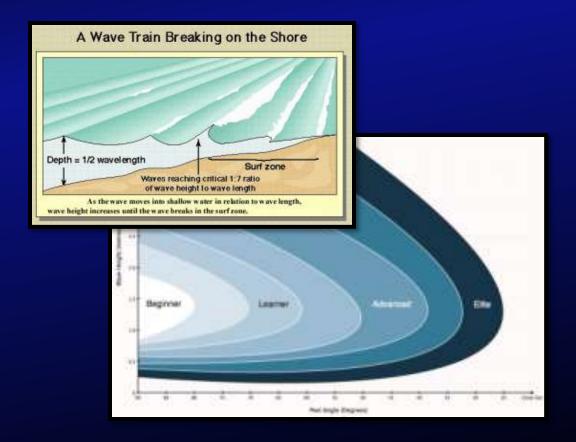


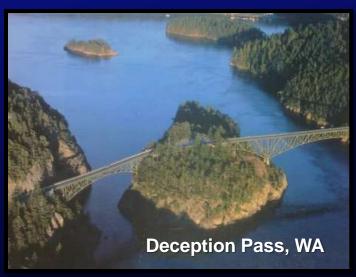




Wave & hydraulic characteristics Evolving science







Aesthetics and noise



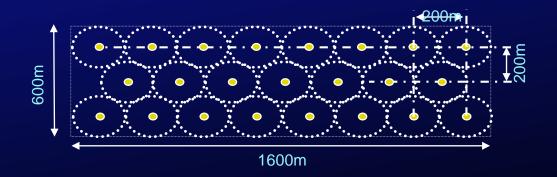


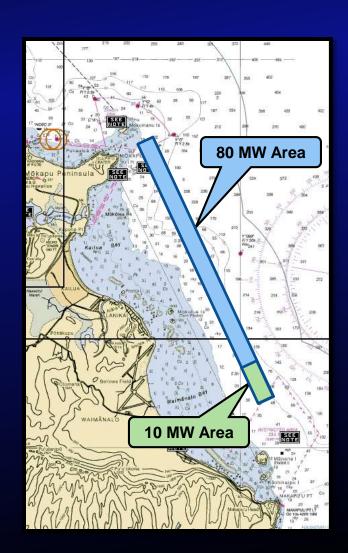
Cumulative impacts

Scale is a major issue

Arrays & multiple projects likely

Challenges of project-by-project review



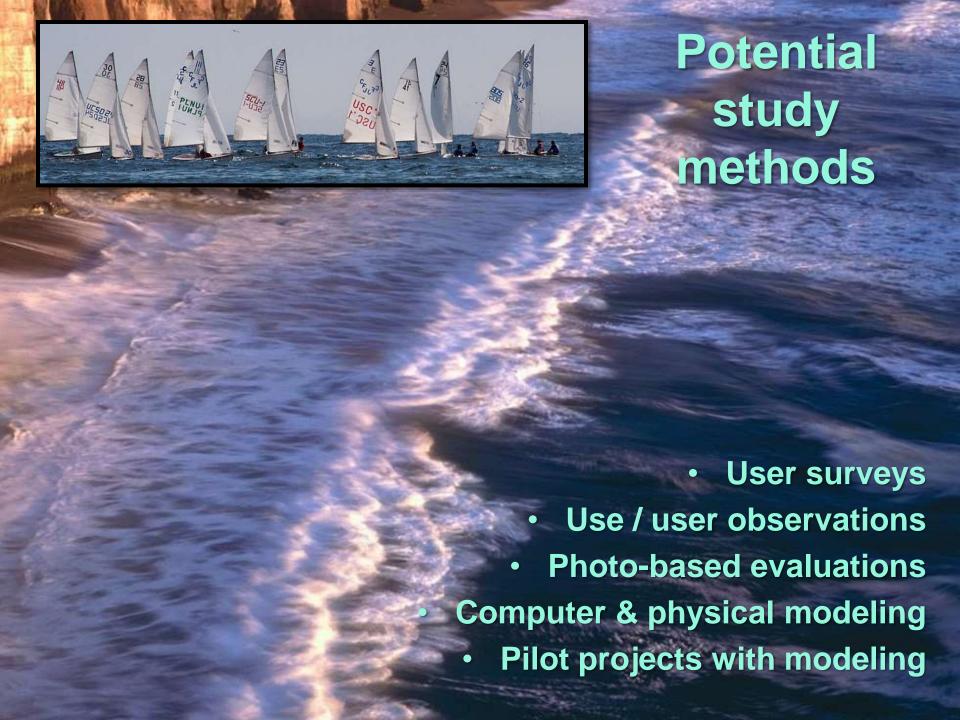


Fish / wildlife impacts

- Biologists study fishery / wildlife
- Potential recreation implications
- Positive or negative possible...











Media sources



Statewide paper (The Oregonian)

63 articles

773 comments

The News Register Guard (Lincoln City)

14 articles

The Umpqua Post (Reedsport)

15 articles

Content analysis

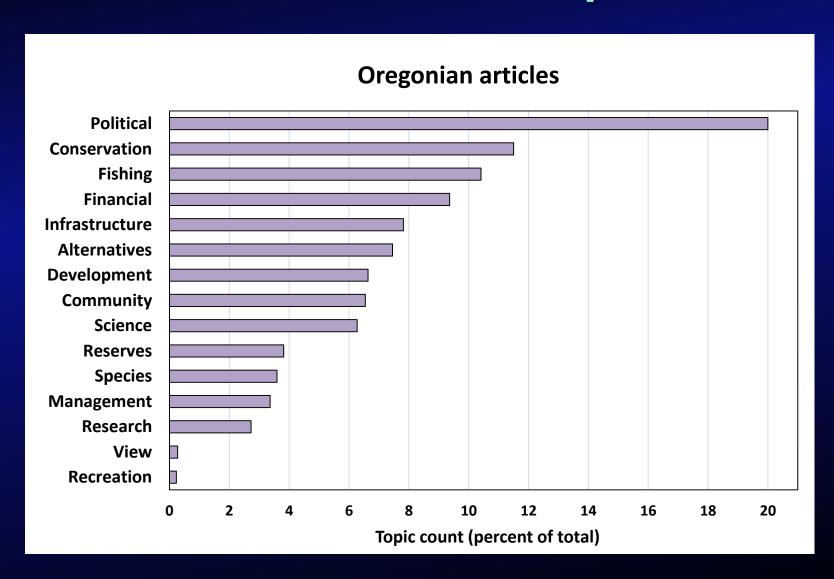


Counted topics in articles / public comments

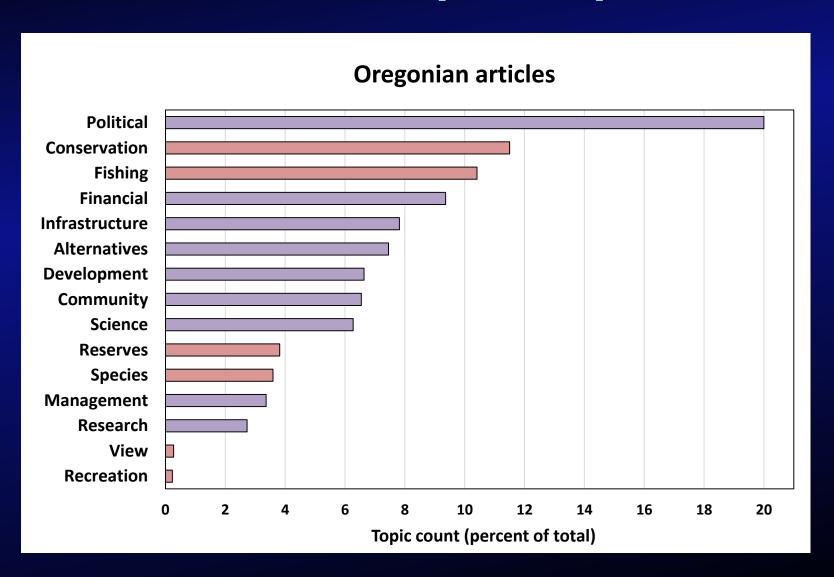
Relative amount of discussion on each topic

No evaluation of facts or quality of content

Most-discussed topics



Resource-impact topics











Aesthetics and recreation

Rarely discussed – broad concerns





"Nascent technologies that generate electricity from ocean waves, tides and currents are bumping into recreational uses. Power generators reduce cost when located near cities -- near the people who want to be out on the water."

Internet comments vs. articles

Newspaper invites on-line comments

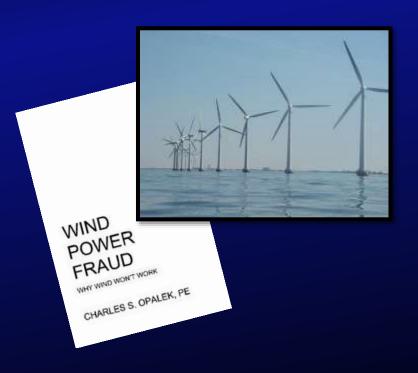




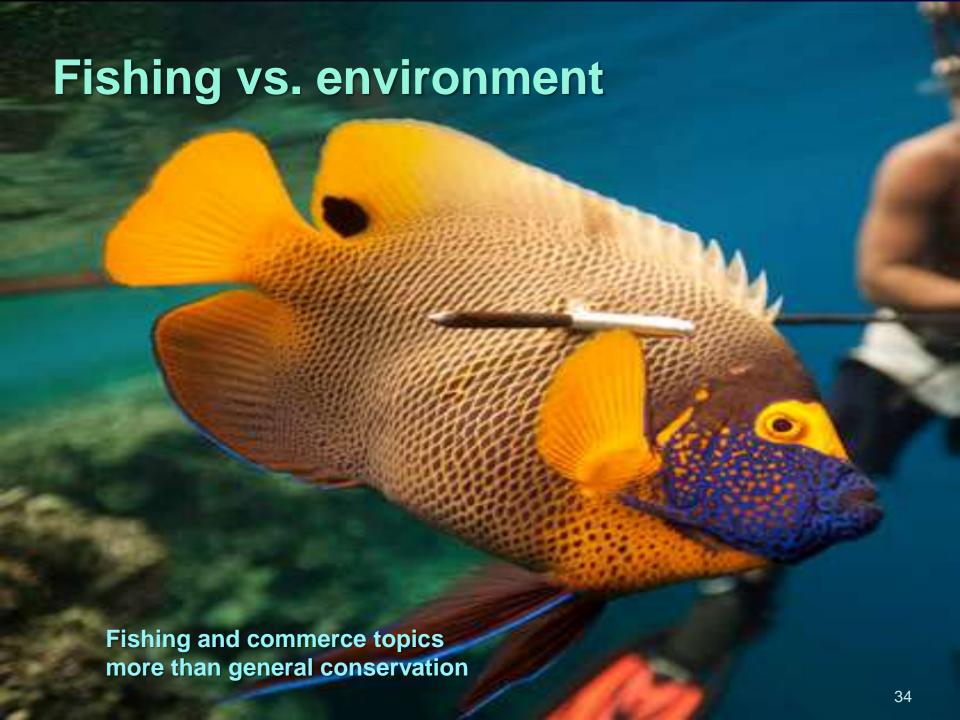
"Green widget scam"

Concern about fraud / tax payer investment Connected to wind power concerns Links to climate change and oil/gas issues?













Conclusions

Early stages of public interest – focused on basics Many impacts are broadly described Public critiques are broad and likely uninformed



Questions or comments?



Guide to assessing recreation impacts:

http://www.hydroreform.org/hydroguide/hydrokinetic-recreation

East Forelands recreation impacts report:

http://www.hydroreform.org/sites/default/files/East_Forelands_Tidal_Energy_Project-Recreaction_Impacts_Assessment_Final.pdf