Fish and Energy Policy

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HC/MSC Joint Energy Seminar
ASMFC Annual Meeting
Atlantic Beach, North Carolina
October 24, 2006
General Outline

- Types of energy projects
  - Traditional
  - New/alternative

- Trends
  - Expanding sectors
  - Numbers

- Comparison to other industry sectors

- Implications to ASMFC trust resources and member states
Types of Projects

- Traditional Facilities
  - *Power plants to produce electricity*
  - *Offshore oil and gas*
  - *Hydropower*
Types of Projects (cont’d)

- **New/Alternative Facilities**
  - *Wind*
  - *Hydrokinetic*
    - *Wave*
    - *Current*
    - *Tidal*
Hydropower

- **National**
  - >78,000 dams
  - ~3,000 are hydropower dams licensed by FERC
  - 600,000 stream miles blocked

- **Atlantic coast**
  - 15,515 dams
  - 84% of historic habitat blocked
Atlantic Coast Successes in 2006

- **Columbia Canal Project fishway**
  - Restores access on Broad River, SC
  - Benefits most diadromous species

- **Santee Cooper Project fishway**
  - Will restore access in Santee Basin, SC
    - (2nd largest basin on east coast)
  - Benefits most diadromous species
Wind Energy

- **Location** – *mostly state waters from Massachusetts to Chesapeake Bay*
- **Numbers** – *dozens of proposals*
- **Policy** – *Workshops in 2004-2005, with public-private reports*
- **Issues** – *Navigation/passage, habitat*
Wave Energy

- **Location** – could be anywhere along coast
- **Numbers** – newest sector, few proposed to date
- **Policy** – covered by Hydrokinetic Workshop in late 2005
- **Issues** – Navigation/passage, implications to surface migrants
Tidal Energy

- **Location** – *narrow passages with high tidal amplitude*
- **Numbers** – *several proposed in Maine*
- **Policy** – *covered by Hydrokinetic Workshop in late 2005*
- **Issues** – *Navigation/passage, implications to migrating fish*
Ocean Current Energy

- **Location** – coastal waters with *mix of wave height and frequency*
- **Numbers** – *very few; speculative*
- **Policy** – *covered by Hydrokinetic Workshop in late 2005*
- **Issues** – *Navigation, implications to migrating fish*
Trends and Observations

- Key sectors are identified
- Number of proposals growing rapidly
- Most states experiencing at least some activity
- Regulatory agencies showing greater inclination to allow pilot projects with facilities in water
Trends and Observations (cont’d)

- Near shore activity now could be joined by offshore projects within next decade
- Many major data gaps on effects and mitigation
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