Nova Scotia's Energy Strategy

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Energy Research Drivers

- Economic Opportunity
  - Rising prices make all energy forms more attractive
  - $500 million in petroleum royalties for 2008-09
- Knowledge Gaps that Discourage Investment
  - Geological
  - Environmental
- Environmental Imperatives
  - Reduction of GHG's requires new renewable energy supplies

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Energy Applied Research Priorities

- Geoscience
  - Offshore
  - Carbon Capture
  - Onshore
- Renewables
  - Tidal technical
  - Bio-mass
  - Bio-fuels

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Energy Applied Research Priorities

- Environmental Impacts
  - Offshore Oil and Gas
    - Sound
    - Waste
    - Spills

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Energy Applied Research Priorities

- Environmental Impacts
  - Tidal
    - Technology Specific
    - Near-field Ecosystem
    - Far-field Ecosystem
  - EEM
    - Technology

Energy Strategy for R&D

- The Work So far
  - Build Funding Mechanisms
    - Grants to
      - OEER Association
        - » $2.6 + .25+.5+5 = $8.35 million
      - OETR Association
        - » $2.6 +.25+20 = $28.5 million
    - OSEA with EnCana
      - $40 million over ~ 10 years

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Energy Strategy for R&D

- Work with Energy R&D Partners
  - COOGER
  - PRAC
- Leverage Funding from Others
  - Energy Industry
  - Federal Government (PERD, EcoTechnologies, SDTC etc.)

Energy Strategy for R&D

- Building on the NS Research Base
  - Academic
  - Federal Government
  - Private Sector

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Energy Strategy for R&D

- Challenges Ahead
  - Academic
    - Applied vs Academic Priorities
      - Applied – short to medium term problems to be solved
      - Academic – long-term if not perpetual
    - Accountability Impediments
      - Grants vs. Contracted Outcomes
      - Hiring/selection process
      - Academic freedom

Energy Strategy for R&D

- Challenges Ahead
  - Federal Government
    - National Priorities
      - The North vs NS
      - Law of the Sea Continental Shelf vs Scotian Shelf
    - Scientific Priorities
      - Scientist driven rather than policy driven
      - Scientist retirements
        - » New hiring difficult

Energy Strategy for R&D

- Challenges Ahead
  - Private Sector
    - Relatively small in scale
    - Growth requires:
      - sustained development or
      - global focus
    - Accountability issues on discoveries

What we will do

- Build New Global Relationships
  - Researchers
    - IRIS
  - Funders
    - OGP Marine Sound Initiative
  - Other governments
    - UK, Norway, USA, Australia, NZ

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What we will do

- Explore New Relationships and Models at Home
  - Academic/Quasi-Academic
  - Federal Scientists
  - Private Sector