







Initial Scope of Program



Who:

- industry managers
- legislators and their staff
- engineers
- geologists
- technicians
- students
- general public

How:

- lectures and multiple-day short courses
- courses will integrate CCS topics
- tours of facilities conducting CO₂ sequestration research
- Symposiums

Carbon Tech Alliance Partners





 Environmental Outreach and Stewardship (EOS) Alliance - Lead



Pacific Northwest National Laboratory

Project History



- 101 CCS Lecture presented May 2010 and developed into video
- Advisory Board recruited June 2010 and has met two additional times
- Marketing Plan- presented at Advisory Board meeting
- Carbon Tech Alliance Website went live Oct. 4, 2010
- Fundamentals of CCS 2 day course June 2011, produced video of entire training
- Symposium organized with local University
- CCS Exchange quarterly newsletter delivered

Fundamentals of CCS

Richland, WA

June 2011



- ▶ I. What is CCS?
- II. CCS Facility Siting
- ▶ III. CCS Project Permitting
- IV. Risk Assessment on MVA
- V. Managing Liability
- VI. Site Characterization
- VII. Public Perception
- VIII. Status of CCS
- IX. Geological Core Analysis

Pete McGrail -PNNL

Tom Anderson – PNNL

John Storman - WA Dept.

Ecology

Wayne Rowe -Schlumberger

Lee Gresham - Carnegie

Mellon

Charlotte Sullivan - PNNL

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Pete McGrail - PNNL

Charlotte Sullivan - PNNL





Training Platform



- Build on NWETC Training model
- Collaborate with high-quality partners
- Use the right approach with the right students
- Pre and Post Service Professionals
- Use Web and Social Media tools
- Utilize feedback cycle

Key Issues going forward



- Develop strength-based regional partnerships
- Develop Program Train Deliver
- \$\$\$ Collaborative funding and resource utilization
- Target workforce ????? What is it
 - Pre-service
 - Grad and post-grad
 - TAW total available workforce
 - TNW total necessary workforce
 - Job qualifications general vs. specific





- Big Picture what is it?
 - Have we accurately assessed TAM?
 - Are we ready if/when the TAM hits?
- Small Picture
 - Feasibility
 - People to work
- Can good science become high quality work with greater meaning and family wages?



