Green and Sustainable Remediation

How ITRC Reduces Regulatory Barriers to the Use of Innovative Environmental Approaches



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Our Mission and Role



Provide a national consensus

on approaches to implementing innovative environmental technologies







Who We Are

Members

- State government
- Federal government
- Industry
- Consultants
- Academia
- Community stakeholders
- Tribal representatives









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How we do it



2009 Project Portfolio

Ongoing	Implementation	New
 Integrated DNAPL LNAPL Metals & Rads Mining Waste Phytotechnologies Sediments Remediation Risk Management UXO Wide Area Assessment 	 Bio DNAPL EACO Perchlorate Rads D&D RPO - PBM UXO Quality Considerations 	 Green & Sustainable Remediation Multi-Incremental Sampling Biowall Technology Environmental Impacts of Ethanol and Bio-Based Fuels In Situ Stabilization and Solidification

Internet Based Training



48,000 people trained thru Q3 2008





Vapor Intrusion Course

SOLD OUT first offering in Portland, OR

An ITRC 2-Day Training Course



INTERSTATE



October 7-8, 2008 Red Lion Hotel – Convention Center Portland, Oregon

Hosted by ITRC State Member Oregon Department of Environmental Quality



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2008 State Engagement

- 44 states have committed POCs in 2008
- 33 POCs submitted State Action Plans (SAP) for coordinating activities
- Provided state environmental priorities and input on 2009 proposals
- Responded to 5 state surveys
- Review of 6 documents
- Participated in 9 training dry runs



Why Green and Sustainable Remediation?

- No nation-wide guidance on how to best incorporate green and sustainable remediation into a regulated cleanup process.
- No consistency on how to use and interpret sustainability metrics and/or life cycle analysis.
- Need a way to communicate best practices to state regulators and environmental consultants



ITRC's Green and Sustainable Remediation (GSR) Team

Goal:

Provide documents and training that educate state regulators and other environmental professionals on how to appropriately incorporate sustainability and green technologies into the cleanup process.



ITRC's Green and Sustainable Remediation (GSR) Team

- What metrics are most useful and have the greatest impact?
- What is a consistent and appropriate way of interpreting the metrics?
- How can we minimize the overall risk to human health and the environment by applying sound GSR practices?
- How can we reduce energy consumption or use alternative sources of energy that will be less harmful to overall environment?
- How do we promote the use and development of GSR technologies?



GSR Team Selection

GSR Team proposal was ranked 1 of 9 team proposals by the ITRC Board of Advisors and liaisons (weighted average with state input weighted higher)

Membership Group	Rank Out Of 9
Combined EPA ranking	5
Combined DOD ranking	3
Combined DOE ranking	3
Combined State ranking	2
ASTSWMO ranking	2
Citizen stakeholders	1
Combined industry ranking	4



GSR Team Leadership and Composition

- I om O'neill NJ Department of Environmental Protection
- 26 states have committed a team member (as of Aug 2008) or resources for product review and implementation

 Team membership commitments from major industry organizations, DOD, DOE, EPA, and citizen stakeholders



State Participation

- Committed a team member (as of Aug 2008): AK, CA, MA, MO, NJ, OR, SD, VT, VA (9)
- Committed resources for product review and implementation: CT, FL, IL, IN, IA, KY, MI, MN, MT, NE, NY, OH, PA, RI, SC, UT, WY





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Since 1995, we've been helping expedite quality regulatory decisionmaking, while protecting human health and the environmental.