



ITRC PROJECT PROPOSAL

Revitalization of Federal Cleanup Lands for Energy Investments and Sustainability

Instructions: The Interstate Technology and Regulatory Council (ITRC) requests proposals for 2012 ITRC projects. Topics of interest for this proposal solicitation are listed below (topics are listed in alphabetical order, and order does not imply preference). Proposals on other topics will be considered, but preference will be given to those that address topics listed below.

Proposals are due electronically to Anna Willett, ITRC Director (awillett@ecos.org) by 5 pm Eastern time on Friday, February 11, 2011. Proposals must be prepared using the proposal template located at <http://www.itrcweb.org/planning.asp>. The page limit for the proposal is 5 pages, and the proposal must be printable on a standard black and white laser printer. Only one Microsoft Word file containing the proposal will be accepted (other formats or attachments will not be considered). File size must be less than 5 MB. Proposers are reminded to present a proposal with a well-focused scope that ITRC can address (e.g. the proposal should be technical in nature and not policy-oriented; research or demonstration projects are not valid proposals for this RFP). Receipt will be acknowledged by email within one business day of proposal receipt. It is the responsibility of the proposer to follow up, if receipt confirmation by ITRC is not received.

Questions must be addressed in writing to awillett@ecos.org. Answers will be provided by email within one business day of receipt. For more information on the evaluation schedule and criteria for proposals see the 2012 ITRC Project Proposal Process located at <http://www.itrcweb.org/planning.asp> on the ITRC website.

PROPOSAL DATE: February 11, 2011 revised: April 2011

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Call for Proposals Topical Area

LONG Long term stewardship, land use controls, institutional controls: *Systems and approaches for implementing, monitoring, tracking, and managing long term stewardship of contaminated sites, including, but not limited to, land use, engineered, and institutional controls; Includes optimization strategies.*

CLIM Environmental impacts of climate change: *Technologies and/or approaches to assess, predict, and validate impacts of climate change on contaminated sites, remediation systems, and monitoring systems; Includes approaches for locating alternative energy sources on contaminated lands or in conjunction with remediation systems and monitoring systems.*

Problem Statement (why is this project necessary and relevant to ITRC's purpose & mission¹?)

The proposed project, "Revitalization of Federal Cleanup Lands for Energy Investments and Sustainability," will address how to assess, facilitate, and maximize beneficial re-use and re-development of large tracks of federal cleanup lands for sustainable, secure, and reliable energy in the

¹ **ITRC Purpose:** To advance innovative environmental decision making
ITRC Mission: Develop information resources and help break down barriers to the acceptance and use of technically sound innovative solutions to environmental challenges through an active network of diverse professionals.

future. DOE, DoD, and EPA are engaged in revitalization efforts toward beneficial and economic reuse of federal cleanup lands. This project is prerequisite to develop a public-private strategy and partnership to deliver clean, affordable, and sustainable energy on federal lands as they become available through property transfer and/or lease through cleanup and closure. The opportunity to re-industrialize and re-vitalize federal cleanup lands can be enhanced through energy innovation and investment, leading to national, regional, and local economic productivity and prosperity. The Team proposes to survey, review, and document the most efficient and effective strategies, procedures, and cases of federal land transformation for clean and sustainable energy. As a State-led Council, ITRC is uniquely qualified with its federal, industry, stakeholder, public, and applied research partners to develop technical and regulatory guidance that will inform and streamline the conversion of contaminated federal lands for beneficial renewable and alternative energy.

In February 2011, DOE established an Asset Revitalization Initiative and Task Force to inventory its cleanup lands, assets, and capabilities to determine the potential for beneficial social and economic reuse including: energy technology testing, deployment, and manufacturing centers (i.e., energy parks or corridors); other industrial and manufacturing centers, research facilities, ecological refuges, conservation areas, historic/cultural areas, and other alternatives. Specifically related to this proposal, the 2011 National Defense Authorization Act provides the legislative basis for the DOE to “set a national example for development and deployment of energy technologies and related advanced manufacturing technologies in a manner that will promote energy security, energy sector employment, and energy independence.” DOE’s significant research investment in onsite renewable, hybrid, and alternative energy technologies, as well as electrical infrastructure systems, creates a business environment that encourages collaboration and interaction between the public and private sectors resulting in high potential success for energy sector transformation of cleanup lands.

DoD’s new energy policies prompt the Military Services to invest and transition to low-carbon and/or renewable energy to attain NetZero (energy, water, and waste) and global greenhouse gas reduction goals. To achieve DoD 25% renewable energy requirements by 2025, the Services are reviewing renewable and alternative energy potential within installations and nearby federal lands due to likely mission and/or natural resource limitations. For example, future missions, training needs, and natural energy sources within installations may require some to look beyond their fence line to other federal neighbors to aggregate and leverage resources. Many installations and bases are assessing the potential of current and formerly contaminated federal lands to be re-designated for energy generation facilities, in partnership with industry, investors, and developers to design, operate, and build them.

In response to DoD’s high priority need for a new energy policy, SERDP & ESTCP established a new Energy and Water program. Its goal is to improve energy conservation and efficiency, reduce water and energy demand, and increase the use of renewable energy. Through the Energy and Water program, DoD’s installations serve as a test bed for technologies developed by researchers from industry, universities, and federal agencies. Advances provide military installations with increased flexibility, lower costs, and reduced greenhouse gas emissions. These demonstrations accelerate the broader deployment of innovative energy technologies across DoD, and to other federal lands, capitalizing on the availability of newly-remediated lands for redevelopment.

EPA partnered with the National Renewable Energy Laboratory to evaluate over 11,000 CERCLA, RCRA, and Brownfields sites for developing renewable energy. Under the RE-Powering America program, EPA met with States, regional governments, Indian Nations, industry and other stakeholders to identify barriers, solutions, incentives, and success stories for renewable energy facility development on contaminated or cleanup lands. The EPA strategy to enhance and accelerate renewable energy generation on its oversight lands serves as a basis and useful input to begin this project.

DOE, DoD, EPA, and other agencies such as DOI, USDA, and DHS, are engaged in revitalization efforts towards beneficial and economic reuse of federal cleanup lands. American Recovery and Reinvestment Act (ARRA) funds and additional federal investment in renewable and alternative energy technologies are being made to offset dependence on fossil fuels, create a clean energy market economy, and retool the national workforce. As these investments are made, there is a need to research and prepare guidance on how federal agencies, states, communities, and the private sector can effectively partner in transitioning federal lands for energy development, productivity, and prosperity.

Proposed Scope to Address Problem (what is the approach for this project?) Please note that technology research and demonstration project proposals are not valid for this RFP.

A diverse team of state regulators, federal, industry, research, investor and stakeholder partners should review existing protocols, strategies, and cases to determine the most efficient and effective transfer and /or leasing of federal lands to the public and private sectors to revitalize these lands with energy investments. ITRC can assist by summarizing applicable regulations in affected states, with the goal of decreasing the lag time between the release of remediated lands and the designation for reuse. ITRC can address and reduce barriers to the streamlined energy technology development at federal lands.

Targeted Users (who will use products generated by this project?)

The primary users for this include those States with a DOE, DOD, EPA-lead, and other federal agencies such as BLM presence, as well as states with large, complex CERCLA sites. These include, at a minimum, Idaho, California, Colorado, South Carolina, Washington, Ohio, Kentucky, Nevada, New Mexico, Tennessee and Virginia. In addition, the process could open up vast opportunities for Brownfield areas in other States.

Summary of Deliverables (primary project product(s))

It is expected a technical or regulatory document would be developed to address procedures and concerns for transferring federal remediated property for reuse. In addition, internet training could be developed if needed or if the interest is high.

Impact (how will this project result in more effective environmental decision making?)

This document will hopefully develop procedures for transferring federal property for the reuse for green and sustainable energy solutions. The team will probably face many challenges including regulatory and public concerns. It is important to address these issues now as federal agencies continue an aggressive approach to reusing their lands as a valuable resource.

Project Schedule

It is projected the team will use 2012 to gather and discuss regulatory issues, digest what federal agencies expect for the land use and listen to public opinion on the topic. 2013 will be used to develop a document that addresses all issues and concerns with the topic of the "reuse of federal lands for the promotion of green and sustainable energy." 2014 will be used to publish a document and develop training (if desired) for the document.

Proposed Personnel

Potential Team Membership/Needs

Federal and state members should have knowledge in regulatory issues concerning land use and remediation efforts. Anyone with knowledge of land transfers would be an asset. Members are desired from the federal, state, private and community. It is suggested that team members are active in the D&D efforts at their DOE site. Members with experience in Brownfield activities may be able to help in the development for the project.

At present the state of Tennessee is interested in this topic and has a representative, Angel Perkey, with experience in the D&D process at ETTP in Oak Ridge. Since she is new to ITRC, a co-Team Leader would need to be found. I would then transition Angel to the co-Team Leader role, if the project is approved.

Since Tennessee has an interest in the project, as POC, I felt it my responsibility to initiate a project proposal that will affect all of the DOE project sites. Robert Storms

Proposed In-Kind/Direct Project Funding

DOE, DoD, and EPA should be consulted as to availability and/or interest for in-kind or direct funding.

Related Work:

At present I know no other entity working on this project; however, this could serve as a bridge project for ITRC to move forward with its green and sustainable remediation work towards an increased focus on clean energy investment. The project builds upon ITRC's past projects on Green and Sustainable Remediation and Brownfields.