TODAY'S WEBINAR TOPIC

Upcoming EPA Brownfields Funding Opportunities

Speakers:

Megan Quinn
Office of Brownfields & Land Revitalization
U.S. Environmental Protection Agency

Lura Matthews
Center for Program Analysis
U.S. Environmental Protection Agency

Upcoming Grant Opportunities

EXTENSION: HUD Community Challenge Application – Due September 16

DOT TIGER III Pre-Application – Due October 3

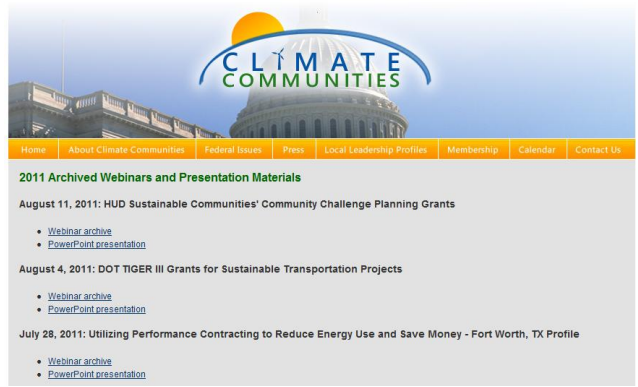
HUD Regional Planning Full Application – Due October 6

September 8, 2011

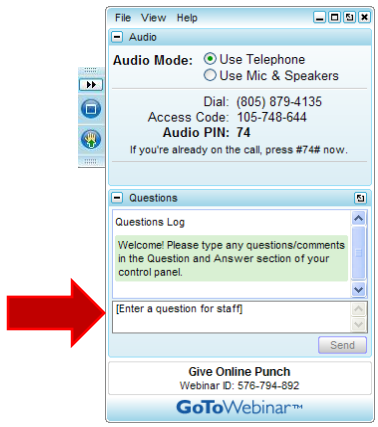
For more information: www.climatecommunities.us

Recorded Webinar and PowerPoint Archive

All 2011 recorded webinars and PowerPoints are available at:
www.climatecommunities.us/webinars.html



Asking questions



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Brownfields Assessment, Cleanup and RLF Grant Guidelines

Megan Quinn
Office of Brownfields & Land Revitalization

Types of Grants ("ARC")

- **Assessment grants** (up to $200,000 for three years) provide funding to inventory, characterize, assess, and conduct planning (including area-wide and cleanup) and community involvement related to brownfields sites.
  - Assessment Coalition grants (up to $1 M for 3 or more eligible entities) provide funding for the same as described above, but are meant to maximize grant funds across a broader area.
- **Revolving Loan Fund grants** (up to $1 million per eligible entity for five years) provide funding to capitalize an RLF and to make loans and provide subgrants to carry out cleanup activities at brownfield sites. Requires 20% cost share.
  - In FY12 only NEW RLF applicants (those that do not have an existing RLF grant) are eligible to apply for funding.
- **Cleanup grants** (up to $200,000 for three years) provide funding to carry out cleanup activities at brownfields sites. Requires 20% cost share. Applicant must own site.

Ranking Criteria

- Four Ranking Criteria Sections for ARC applicants

1. Community Need
2. Project Description & Feasibility of Success
3. Community Engagement & Partnership
4. Project Benefits

Criteria Overview

- **Community Need**: Under this criterion, proposals will be evaluated on the quality and the extent of applicant's description of:
  - the health, welfare, environmental, *and*
  - financial needs of the targeted community(ies) as it is affected by the presence of brownfields.

- **Project Description & Feasibility of Success:** Under this criterion, proposals will be evaluated on the quality and extent of the applicant's ability to demonstrate:
  - Reasonable approach to the project;
  - Sufficient resources to complete the project;
  - Capability to complete the project in a timely manner

Criteria Overview (contd.)

- **Community Engagement**: Under this criterion, proposals will be evaluated on the extent to which the applicant:
  - described a plan for engaging the targeted community in the project;
  - Identified and established relationships with the partners necessary to achieve the project's goals; and
  - Included letters of support from Community Based Organizations that identified specific contributions to the project.

- **Project Benefits**: Under this criterion, proposals will be evaluated on the extent to which the applicant describes project **outcomes** by:
  - Promoting the community's general welfare through the improvement of the public health and safety, economy and environment of the targeted community;
  - How the project will contribute to the overall community "vision" for the revitalization of brownfield sites; and
  - Plans for measuring progress toward these outcomes (and outputs)

Important Guidelines Dates & info

- Guidelines will be posted soon (approx. mid-September)
  www.epa.gov/brownfields
- Sign up to our list serv to get a notice as soon as they are posted
- Approximately 60 days to prepare proposals
- Proposals due approx. mid-November
- Announcement Spring 2012

RE-Powering America's Land:
Renewable Energy on Potentially Contaminated Land and Mining Sites

September 8, 2011

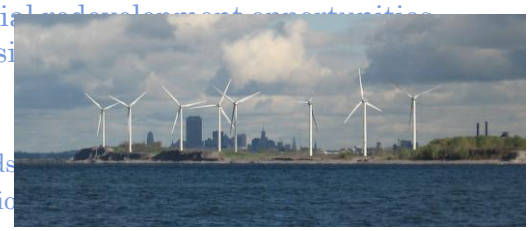
Lura Matthews
OSWER Center for Program Analysis
U.S. Environmental Protection Agency

What Will be Covered Today

- What is RE-Powering America's Land?
- Why Focus on Renewable Energy Generation on Contaminated Sites?
- Existing RE-Powering Tools
- Feasibility Studies
- Next steps at EPA
- Success Stories

RE-Powering America's Land: Renewable Energy on Contaminated Land & Mining Sites

- EPA launched *RE-Powering America's Land* in 2008
- EPA has authority to investigate, assess, and clean up contaminated sites
- Recognized the potential [illegible] of these EPA tracked si
  - Brownfields
  - Superfund
  - Abandoned Mine Lands
  - RCRA – corrective acti
  - Landfills

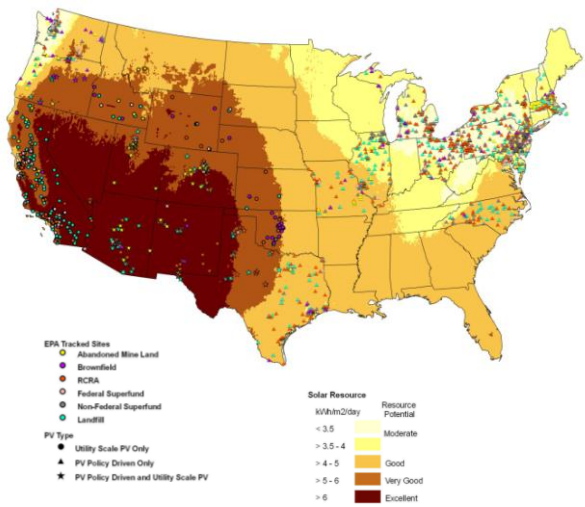


- To date, have mapped over 15 million acres, overlaid with RE potential

Why the Focus on Renewable Energy Development on EPA Tracked Sites?

- **Many of these sites offer:**
  - Existing infrastructure - transmission lines, roads and railway
  - Potentially lower transaction costs
  - Improved Public Support and Faster Permitting/Zoning
- **Siting renewable energy on these sites may:**
  - Increase economic value for the property
  - Further environmental sustainability by maximizing land use
  - Reduce the stress on greenfields
  - Provide clean energy for use on-site, locally, and/or to utility grid
  - Create local jobs

Potential for Solar



Utility PV **470 sites**

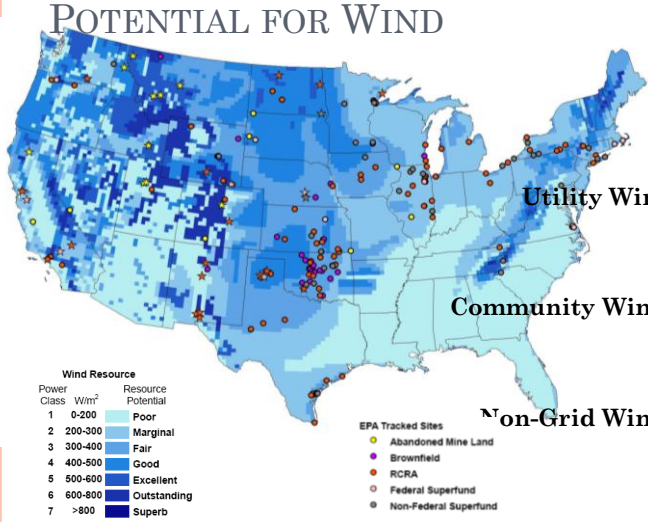
Policy Driven PV **1,397 sites**

Non-grid PV **11,384 sites**

Utility CSP (Stirling) **85 sites**

Utility CSP (Trough) **60 sites**

Potential for Wind



Utility Wind **37 sites**

Community Wind **169 sites**

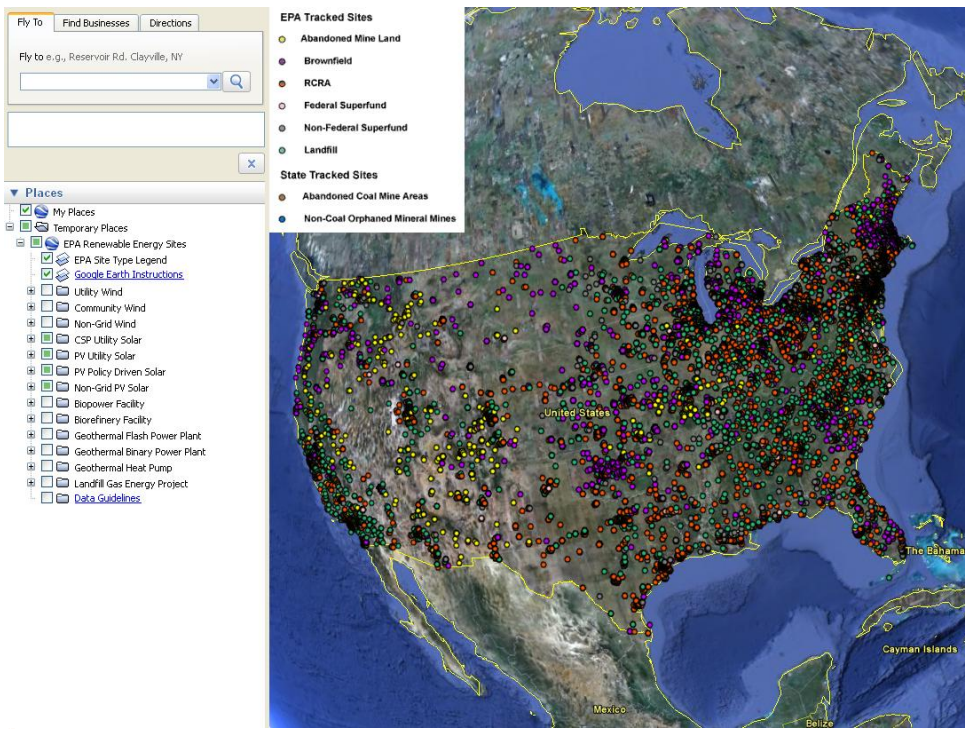
Non-Grid Wind **1,304 sites**

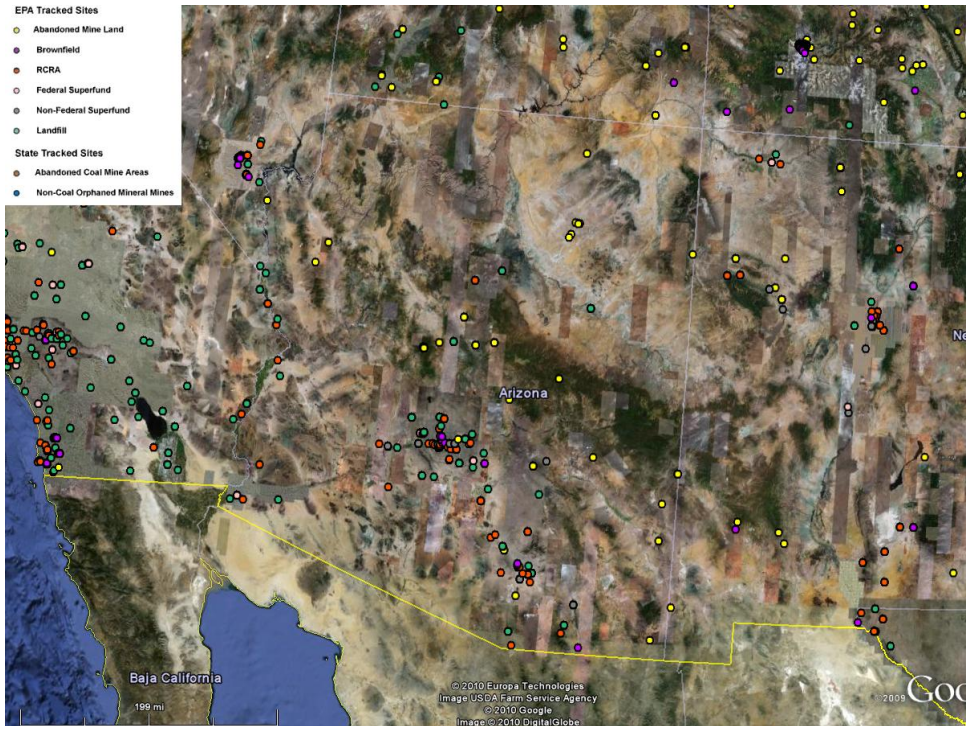
- Google Earth Mapping
  - Joint EPA-NREL venture produced interactive maps
- Technical Assistance
- Success Stories
  - Identifying and sharing successes
- Incentives
  - State-specific maps and financial incentive sheets describing renewable energy and contaminated lands redevelopment incentives in each state

Website: www.epa.gov/renewableenergyland

Google Earth Mapping Tool

- **Mapped EPA inventory of EPA tracked sites**
  - Abandoned Mine Lands
  - Brownfields – sites that received a Brownfields grant
  - RCRA
  - Superfund
  - Landfills
- **National Renewable Energy Laboratory (NREL) Data**
  - Wind, Solar, Biomass, and Geothermal Resources
- **Infrastructure Data**
  - U.S. Highways
  - U.S. National Transportation Atlas Railroads
  - Transmission Lines




EPA Tracked Sites
Abandoned Mine Land
Brownfield
RCRA
Federal Superfund
Non-Federal Superfund
Landfill
State Tracked Sites
Abandoned Coal Mine Areas
Non-Coal Orphaned Mineral Mines
Arizona
Baja California
199 mi
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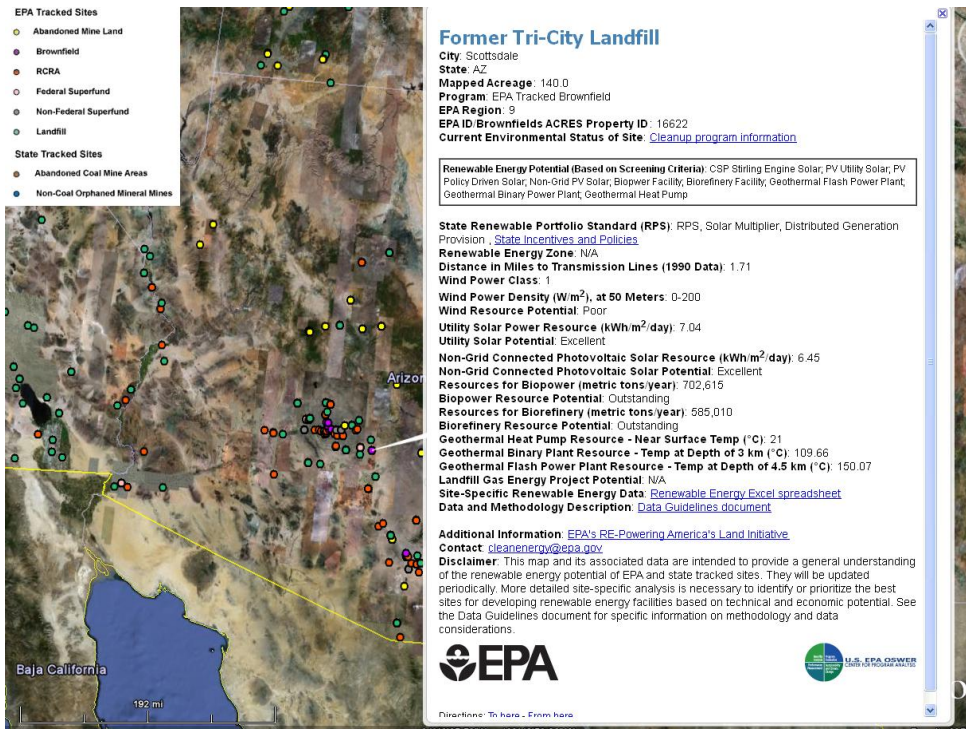
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Landfill
State Tracked Sites
Abandoned Coal Mine Areas
Non-Coal Orphaned Mineral Mines
Baja California
192 mi
Former Tri-City Landfill
City: Scottsdale
State: AZ
Mapped Acreage: 140.0
Program: EPA Tracked Brownfield
EPA Region: 9
EPA ID/Brownfields ACRES Property ID: 16622
Current Environmental Status of Site: Cleanup program information
Renewable Energy Potential (Based on Screening Criteria): CSP Stirling Engine Solar; PV Utility Solar; PV Policy Driven Solar; Non-Grid PV Solar; Biopwer Facility; Biorefinery Facility; Geothermal Flash Power Plant; Geothermal Binary Power Plant; Geothermal Heat Pump
State Renewable Portfolio Standard (RPS): RPS, Solar Multiplier, Distributed Generation Provision , State Incentives and Policies
Renewable Energy Zone: N/A
Distance in Miles to Transmission Lines (1990 Data): 1.71
Wind Power Class: 1
Wind Power Density (W/m2), at 50 Meters: 0-200
Wind Resource Potential: Poor
Utility Solar Power Resource (kWh/m2/day): 7.04
Utility Solar Potential: Excellent
Non-Grid Connected Photovoltaic Solar Resource (kWh/m2/day): 6.45
Non-Grid Connected Photovoltaic Solar Potential: Excellent
Resources for Biopower (metric tons/year): 702,615
Biopower Resource Potential: Outstanding
Resources for Biorefinery (metric tons/year): 585,010
Biorefinery Resource Potential: Outstanding
Geothermal Heat Pump Resource - Near Surface Temp (°C): 21
Geothermal Binary Plant Resource - Temp at Depth of 3 km (°C): 109.66
Geothermal Flash Power Plant Resource - Temp at Depth of 4.5 km (°C): 150.07
Landfill Gas Energy Project Potential: N/A
Site-Specific Renewable Energy Data: Renewable Energy Excel spreadsheet
Data and Methodology Description: Data Guidelines document
Additional Information: EPA's RE-Powering America's Land Initiative
Contact: cleanenergy@epa.gov
Disclaimer: This map and its associated data are intended to provide a general understanding of the renewable energy potential of EPA and state tracked sites. They will be updated periodically. More detailed site-specific analysis is necessary to identify or prioritize the best sites for developing renewable energy facilities based on technical and economic potential. See the Data Guidelines document for specific information on methodology and data considerations.
EPA
U.S. EPA OSWER
Directions: To here - From here

NREL Partnership: Site Specific Analysis

- EPA Partnered with NREL to evaluate the feasibility of siting renewable energy on specific sites
- In 2010, conducting 12 site-specific analyses and one alternative gas station project
- The analysis will include:
  - determining the best renewable energy technology for the site,
  - the optimal location for placement of the renewable energy technology,
  - potential energy generating capacity,
  - the return on the investment, and
  - the economic feasibility of the renewable energy projects.
- Expected Outcome: A tool for the community to use when seeking developers for the site
- Currently in the process of selecting more sites for feasibility studies

Next Steps at EPA

- Expand the toolbox of resources for use by EPA staff, states, and stakeholders
  - Solar on landfill guidance
  - Case studies tied to barriers
- Webinar Series
- Clarify Liability Protections
- Adding other sites
- Federal Partners Network
  - Partner with DOE and other F

  Agencies to promote RE-Powerin

Examples of Success: Aerojet Solar Project

Aerojet Project

Sacramento County, CA

- 6 MW
- 40 acres
- 30,000 PV solar panels
- Single axis tracking system
- Powers approximately 30% of energy used for cleanup of site

This solar facility is one of the largest single-site industrial installations in the United States.

Thank You!

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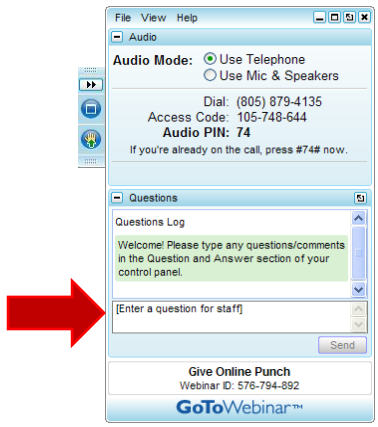
- **www.epa.gov/renewableenergyland**

Asking questions



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Questions?