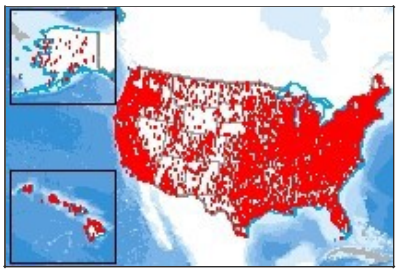
EPA Brownfield Sites (RE-Powering America's Land)



Tags

Contaminant, Energy, Cleanup, Climate, Environment, Facilities, sample

Summary

The federal- and state-tracked sites included in this screening represent a subset of nationwide contaminated lands, landfills, and mine sites. RE-Powering screened sites currently tracked through EPA remediation and grant programs, as well as sites tracked by five state agencies selected as a pilot expansion of this tool. Additional sites are tracked at the state and local level.

Description

The U.S. Environmental Protection Agency (EPA) Office of Solid Waste and Emergency Response (OSWER) Center for Program Analysis (CPA) initiated the RE-Powering America's Land Initiative to demonstrate the enormous potential that contaminated lands, landfills, and mine sites provide for developing renewable energy in the United States. EPA developed national level site screening criteria in partnership with the U.S. Department of Energy (DOE) National Renewable Energy Laboratory (NREL) for wind, solar, biomass, and geothermal facilities. While the screening criteria demonstrate the potential to reuse contaminated land for renewable energy facilities, the criteria and data are neither designed to identify the best sites for developing renewable energy nor all-inclusive. Therefore, more detailed, site-specific analysis is necessary to identify or prioritize the best sites for developing renewable energy facilities based on the technical and economic potential. Please note that these sites were only pre-screened for renewable energy potential. The sites were not evaluated for land use constraints or current on the ground conditions. Additional research and site-specific analysis are needed to verify viability for renewable energy potential at a given site.

Credits

There are no credits for this item.

Use limitations

There are no access and use limitations for this item.

Extent

West -178.333333 **East** -64.711100
North 70.290526 **South** 17.742200

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE environment
* CONTENT TYPE Downloadable Data
THEME KEYWORDS Contaminant, Energy, Cleanup, Climate, Environment, Facilities
THESAURUS
TITLE EPA GIS Keyword Thesaurus
THEME KEYWORDS sample
THESAURUS
TITLE User

Citation

* TITLE epa_renewable_energy_site_v3
CREATION DATE 2015-08-13 00:00:00
PUBLICATION DATE 2015-08-13 00:00:00
REVISION DATE 2015-08-13 00:00:00
PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY
- INDIVIDUAL'S NAME Marc Thomas
- ORGANIZATION'S NAME U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Center for Program Analysis
- CONTACT'S POSITION Program Analyst
- CONTACT'S ROLE publisher
  - CONTACT INFORMATION
    - PHONE
      - VOICE 202-566-0791
    - ADDRESS
      - DELIVERY POINT 1200 Pennsylvania Avenue, N. W.; Mail Code: 5101T
      - CITY Washington
      - ADMINISTRATIVE AREA DC
      - POSTAL CODE 20460
      - E-MAIL ADDRESS thomas.marc@epa.gov
    - ONLINE RESOURCE
      - LOCATION http://www.epa.gov/renewableenergyland/rd_mapping_tool.htm#i_map
      - FUNCTION PERFORMED download

Resource Details

DATASET LANGUAGES English (UNITED STATES)
SPATIAL REPRESENTATION TYPE * vector
* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

Extents

EXTENT
- DESCRIPTION
  - USA
- GEOGRAPHIC EXTENT
  - BOUNDING RECTANGLE
    - WEST LONGITUDE -180
    - EAST LONGITUDE -66
    - SOUTH LATITUDE 18
    - NORTH LATITUDE 72

EXTENT
- GEOGRAPHIC EXTENT
  - BOUNDING RECTANGLE
    - EXTENT TYPE Extent used for searching
    - * WEST LONGITUDE -178.333333
    - * EAST LONGITUDE -64.711100
    - * NORTH LATITUDE 70.290526
    - * SOUTH LATITUDE 17.742200
    - * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
- * WEST LONGITUDE -19851975.821027
- * EAST LONGITUDE -7203606.700673
- * SOUTH LATITUDE 2007395.442920
- * NORTH LATITUDE 11163940.290245
- * EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT
- INDIVIDUAL'S NAME Marc Thomas
- ORGANIZATION'S NAME U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Center for Program Analysis
- CONTACT'S POSITION Program Analyst
- CONTACT'S ROLE publisher
  - CONTACT INFORMATION
    - PHONE
      - VOICE 202-566-0791
    - ADDRESS
      - DELIVERY POINT 1200 Pennsylvania Avenue, N. W.; Mail Code: 5101T
      - CITY Washington
      - ADMINISTRATIVE AREA DC
      - POSTAL CODE 20460
      - E-MAIL ADDRESS thomas.marc@epa.gov
    - ONLINE RESOURCE
      - LOCATION http://www.epa.gov/renewableenergyland/rd_mapping_tool.htm#i_map
      - FUNCTION PERFORMED download

Resource Maintenance

RESOURCE MAINTENANCE

Update frequency as needed

Resource Constraints

Security constraints
- Classification unclassified
- Limitations of use
  - public

Spatial Reference

ArcGIS coordinate system
- * Type Projected
- * Geographic coordinate reference GCS_WGS_1984
- * Projection WGS_1984_Web_Mercator_Auxiliary_Sphere
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  - Projected coordinate system
    - Well-known identifier 102100
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    - Y origin -33272760.666300893
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    - M origin -100000
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Reference system identifier
- * Value 3857
- * Codespace EPSG
- * Version 8.2.6

Spatial Data Properties

Vector
- * Level of topology for this dataset geometry only
- Geometric objects
  - Feature class name epa_renewable_energy_site_v3
  - * Object type point
  - * Object count 81658

ArcGIS Feature Class Properties
- Feature class name epa_renewable_energy_site_v3
  - * Feature type Simple
  - * Geometry type Point
  - * Has topology FALSE
  - * Feature count 81658
  - * Spatial index TRUE
  - * Linear referencing FALSE

Distribution

Distributor
- Contact information
  - Individual's name Marc Thomas
  - Organization's name U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Center for Program Analysis
  - Contact's position Program Analyst
  - Contact's role publisher
    - Contact information
      - Phone
        - Voice 202-566-0791
      - Address
        - Delivery point 1200 Pennsylvania Avenue, N. W.; Mail Code: 5101T
        - City Washington
        - Administrative area DC
        - Postal code 20460
        - Country U.S.A.
        - e-mail address 202-566-0791

ONLINE RESOURCE
LOCATION http://www.epa.gov/renewableenergyland/rd_mapping_tool.htm#i_map
FUNCTION PERFORMED information
HOURS OF SERVICE
8:30 AM to 5:00 PM ET
CONTACT INSTRUCTIONS
Download via website or email cleanenergy.gov

AVAILABLE FORMAT
NAME RE-Powering Screening Shapefile
VERSION Current

DISTRIBUTION FORMAT
* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT epa_renewable_energy_site_v3
* TYPE Feature Class
* ROW COUNT 81658

FIELD OBJECTID
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* DATA TYPE OID
* WIDTH 4
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Internal feature number.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

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* FIELD DESCRIPTION
Feature geometry.
* DESCRIPTION SOURCE
ESRI
* DESCRIPTION OF VALUES
Coordinates defining the features.

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Metadata Details

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Metadata character set utf8 - 8 bit UCS Transfer Format
Metadata identifier d8866557-05f6-4622-a873-f74ee726a6ee
Scope of the data described by the metadata dataset
Scope name * dataset
* Last update 2017-01-03
ArcGIS metadata properties
Metadata format ArcGIS 1.0
Standard or profile used to edit metadata FGDC
Metadata style FGDC CSDGM Metadata
Created in ArcGIS for the item 2016-12-15 13:59:01
Last modified in ArcGIS for the item 2017-01-03 11:19:19
Automatic updates
Have been performed Yes
Last update 2017-01-03 11:10:59

Metadata Contacts

Metadata contact
Individual's name Marc Thomas
Organization's name U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Center for Program Analysis
Contact's position Program Analyst
Contact's role publisher
Contact information
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City Washington
Administrative area DC
Postal code 20460
e-mail address thomas.marc@epa.gov
Online resource
Location http://www.epa.gov/renewableenergyland/rd_mapping_tool.htm#i_map
Function performed download