

Operational Landfill Methane Project



Tags

Operational Landfill Gas Projects, Landfill Gas, LFG, Landfill, Gas, U.S. Environmental Protection, Agency, EPA, Landfill Methane Outreach Program, LMOP

Summary

Creative use of landfill gas (LFG) includes heating greenhouses, producing electricity and heat in cogeneration applications, firing brick kilns, supplying high-Btu pipeline-quality gas, fueling garbage trucks, and providing fuel to chemical and automobile manufacturing. Projects range from small-scale community-driven initiatives to multi-million-dollar private investments.

Description

This layer displays the current operating landfill gas projects in the United States in July 2016.

Credits

U.S. Environmental Protection Agency - Landfill Methane Outreach Program

Use limitations

Acknowledgment of the U.S. Environmental Protection Agency - Landfill Methane Outreach Program would be appreciated in products derived from this data.

Extent

West -149.602138 **East** -66.621264
North 61.293281 **South** 18.465776

Scale Range

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

ArcGIS Metadata

Topics and Keywords

* CONTENT TYPE Downloadable Data

Citation

TITLE Operational Landfill Methane Project
PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Katherine Szoldatits
ORGANIZATION'S NAME Argonne National Laboratory
CONTACT'S POSITION Ecologist
CONTACT'S ROLE processor

CONTACT INFORMATION

PHONE

VOICE 630-252-1254

ADDRESS

TYPE both

DELIVERY POINT 9700 South Cass Avenue, EVS/Bldg 240

CITY Argonne

ADMINISTRATIVE AREA IL

POSTAL CODE 60439

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
CREDITS
U.S. Environmental Protection Agency - Landfill MethaneOutreach Program

Extents

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -149.602138
* EAST LONGITUDE -66.621264
* NORTH LATITUDE 61.293281
* SOUTH LATITUDE 18.465776
* EXTENT CONTAINS THE RESOURCE Yes
EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -16653633.823745
* EAST LONGITUDE -7416245.184484
* SOUTH LATITUDE 2092139.536682
* NORTH LATITUDE 8693478.030050
* EXTENT CONTAINS THE RESOURCE Yes

Resource Constraints

CONSTRAINTS
LIMITATIONS OF USE
Acknowledgment of the U.S. Environmental Protection Agency - Landfill MethaneOutreach Program
would be appreciated in products derived from this data.

Spatial Reference

ARCGIS COORDINATE SYSTEM
* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041545.367140558
Y ORIGIN -33272760.666300893
XY SCALE 135368852.55357128
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]
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 landfill_methane_site_operational_v2
* OBJECT TYPE point
* OBJECT COUNT 599
ARCGIS FEATURE CLASS PROPERTIES
FEATURE CLASS NAME landfill_methane_site_operational_v2
* FEATURE TYPE Simple
* GEOMETRY TYPE Point
* HAS TOPOLOGY FALSE

- * FEATURE COUNT 599
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT

- * NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT landfill_methane_site_operational_v2

- * TYPE Feature Class

- * ROW COUNT 599

FIELD OBJECTID

- * ALIAS OBJECTID

- * DATA TYPE OID

- * WIDTH 4

- * PRECISION 0

- * SCALE 0

- * FIELD DESCRIPTION

Internal feature number.

- * DESCRIPTION SOURCE

Esri

- * DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD GHGRP_ID

- * ALIAS GHGRP_ID

- * DATA TYPE String

- * WIDTH 255

- * PRECISION 0

- * SCALE 0

- * FIELD DESCRIPTION

EPA's Greenhouse Gas Reporting Program Facility Identifier

- * DESCRIPTION SOURCE

U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Landfill_ID

- * ALIAS Landfill_ID

- * DATA TYPE Double

- * WIDTH 8

- * PRECISION 0

- * SCALE 0

- * FIELD DESCRIPTION

Landfill ID Number

- * DESCRIPTION SOURCE

U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Landfill_Name

- * ALIAS Landfill_Name

- * DATA TYPE String

- * WIDTH 255

- * PRECISION 0

- * SCALE 0

- * FIELD DESCRIPTION

Landfill Name

- * DESCRIPTION SOURCE

U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD State

- * ALIAS State

- * DATA TYPE String

- * WIDTH 255

- * PRECISION 0

- * SCALE 0

- * FIELD DESCRIPTION

State Abbreviation

- * DESCRIPTION SOURCE

U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Physical_Address

- * ALIAS Physical_Address

- * DATA TYPE String

- * WIDTH 255

- * PRECISION 0

* **SCALE** 0
FIELD DESCRIPTION
Physical Address of Landfill
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD City

* **ALIAS** City
* **DATA TYPE** String
* **WIDTH** 255
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
City Name
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD County

* **ALIAS** County
* **DATA TYPE** String
* **WIDTH** 255
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
County Name
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Zip_Code

* **ALIAS** Zip_Code
* **DATA TYPE** String
* **WIDTH** 255
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Zip Code for Landfill
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Latitude

* **ALIAS** Latitude
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Latitude
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Longitude

* **ALIAS** Longitude
* **DATA TYPE** Double
* **WIDTH** 8
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Longitude
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Ownership_Type

* **ALIAS** Ownership_Type
* **DATA TYPE** String
* **WIDTH** 255
* **PRECISION** 0
* **SCALE** 0
FIELD DESCRIPTION
Indicates if landfill is publicly owned, privately owned, or co-owned by public and private entities.
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Landfill_Owner_Organization

* **ALIAS** Landfill_Owner_Organization
* **DATA TYPE** String

* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Landfill Owner Organization
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Landfill_Operator_Organization
* ALIAS Landfill_Operator_Organization
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Landfill Operator Organization
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Year_Landfill_Opened
* ALIAS Year_Landfill_Opened
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Year Landfill Opened
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Landfill_Closure_Year
* ALIAS Landfill_Closure_Year
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Year Landfill Closed
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Current_Landfill_Status
* ALIAS Current_Landfill_Status
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Current Landfill Status
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Waste_in_Place_tons
* ALIAS Waste_in_Place_tons
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Waste in Place (tons)
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Waste_in_Place_Year
* ALIAS Waste_in_Place_Year
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Waste in Place Year
DESCRIPTION SOURCE
U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD LFG_Generated_mmscfd

- * ALIAS LFG_Generated_mmscfd
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
- Landfill Gas Generated (million standard cubic feet per day)
- DESCRIPTION SOURCE
- U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD LFG_Collected_mmscfd

- * ALIAS LFG_Collected_mmscfd
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
- Landfill Gas Collected (million standard cubic feet per day)
- DESCRIPTION SOURCE
- U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD LFG_Flared_mmscfd

- * ALIAS LFG_Flared_mmscfd
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
- Landfill Gas Flared (million standard cubic feet per day)
- DESCRIPTION SOURCE
- U.S. Environmental Protection Agency - Landfill Methane Outreach Program

FIELD Shape

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
- Feature geometry.
- * DESCRIPTION SOURCE
- Esri
- * DESCRIPTION OF VALUES
- Coordinates defining the features.

FIELD LFs_w_OP_Prj

- * ALIAS LFs_w_OP_Prj
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
- Landfill Operational Project
- DESCRIPTION SOURCE
- U.S. Environmental Protection Agency - Landfill Methane Outreach Program

Metadata Details

- * METADATA LANGUAGE English (UNITED STATES)
- * METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format
- SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
- SCOPE NAME * dataset
- * LAST UPDATE 2016-12-12
- ARCGIS METADATA PROPERTIES
- METADATA FORMAT ArcGIS 1.0
- METADATA STYLE FGDC CSDGM Metadata
- STANDARD OR PROFILE USED TO EDIT METADATA FGDC
- CREATED IN ARCGIS FOR THE ITEM 2016-12-11 16:17:07
- LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-12-12 10:19:34
- AUTOMATIC UPDATES
- HAVE BEEN PERFORMED Yes
- LAST UPDATE 2016-12-12 10:17:01