

Power Plants

Metadata also available as

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Identification_Information:

Citation:

Citation_Information:

Originator: Platts

Publication_Date: 2009

Title: Power Plants

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Westminster, CO

Publisher: Platts

Online_Linkage: <<http://www.gisdata.platts.com/>>

Description:

Abstract:

The Platts Power Plant geospatial data layer contains point features representing power generating facilities in North America. Although a power plant may have multiple generators, or units, the power plant layer represents all units at a plant as one feature. Detailed attribute information associated with the power plant layer includes fuel types, prime movers, operational and financial statistics. Utility and Non-Utility operated power plants with at least 4.5 MW of demonstrated capacity, plus many smaller power plants, are represented by this layer. In addition, power plants in all stages of development, including proposed, tabled, and under construction are included.

Purpose:

The Platts Power Plants geospatial data layer has been created to display the locations of power plants in North America. When used in association with the Platts Electric Substations and Electric Transmission Lines geospatial data layers, viewers can analyze the geographic relationships within the electric transmission grid across utilities, states, and countries.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2009

Currentness_Reference: publication date

*Status:**Progress:* In work*Maintenance_and_Update_Frequency:* Continually*Spatial_Domain:**Bounding_Coordinates:**West_Bounding_Coordinate:* -171.742515*East_Bounding_Coordinate:* -52.955172*North_Bounding_Coordinate:* 71.287583*South_Bounding_Coordinate:* 14.900000*Keywords:**Theme:**Theme_Keyword_Thesaurus:* ArcIMS Metadata Server Theme Codes*Theme_Keyword:* structure*Theme_Keyword:* utilitiesCommunication*Theme:**Theme_Keyword_Thesaurus:* NONE*Theme_Keyword:* Power plants*Theme_Keyword:* Generating stations*Theme_Keyword:* Plants*Theme_Keyword:* Generators*Theme_Keyword:* Power*Theme_Keyword:* Power facilities*Theme_Keyword:* generating facilities*Theme_Keyword:* Electric*Theme_Keyword:* Nuclear plant*Theme_Keyword:* Hydro plant*Theme_Keyword:* Coal plant*Theme_Keyword:* Natural Gas plant*Place:**Place_Keyword_Thesaurus:* NONE*Place_Keyword:* United States*Place_Keyword:* Alabama*Place_Keyword:* Alaska*Place_Keyword:* Arizona*Place_Keyword:* Arkansas*Place_Keyword:* California*Place_Keyword:* Colorado*Place_Keyword:* Connecticut*Place_Keyword:* Delaware*Place_Keyword:* District of Columbia*Place_Keyword:* Washington D.C.*Place_Keyword:* Florida*Place_Keyword:* Georgia*Place_Keyword:* Hawaii*Place_Keyword:* Idaho*Place_Keyword:* Illinois*Place_Keyword:* Indiana*Place_Keyword:* Iowa*Place_Keyword:* Kansas*Place_Keyword:* Kentucky*Place_Keyword:* Louisiana

Place_Keyword: Maine
Place_Keyword: Maryland
Place_Keyword: Massachusetts
Place_Keyword: Michigan
Place_Keyword: Minnesota
Place_Keyword: Mississippi
Place_Keyword: Missouri
Place_Keyword: Montana
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Place_Keyword: Washington
Place_Keyword: West Virginia
Place_Keyword: Wisconsin
Place_Keyword: Wyoming
Place_Keyword: Canada
Place_Keyword: Alberta
Place_Keyword: British Columbia
Place_Keyword: Manitoba
Place_Keyword: New Brunswick
Place_Keyword: Newfoundland
Place_Keyword: Northwest Territories
Place_Keyword: Nova Scotia
Place_Keyword: Nunavut
Place_Keyword: Ontario
Place_Keyword: Prince Edward Island
Place_Keyword: Quebec
Place_Keyword: Saskatchewan
Place_Keyword: Yukon Territory
Place_Keyword: Mexico
Place_Keyword: Aquascalientas
Place_Keyword: Baja California Norte
Place_Keyword: Baja California Sur
Place_Keyword: Campeche

Place_Keyword: Chiapas
Place_Keyword: Chihuahua
Place_Keyword: Coahuila
Place_Keyword: Colima
Place_Keyword: Durango
Place_Keyword: Federal District
Place_Keyword: Guanajuato
Place_Keyword: Guerrero
Place_Keyword: Hidalgo
Place_Keyword: Jalisco
Place_Keyword: Michoacan De Ocampo
Place_Keyword: Morelos
Place_Keyword: Nayarit
Place_Keyword: Nuevo Leon
Place_Keyword: Oaxaca
Place_Keyword: Puebla
Place_Keyword: Queretaro
Place_Keyword: Quintana Roo
Place_Keyword: San Luis Potosi
Place_Keyword: Sinaloa
Place_Keyword: Sonora
Place_Keyword: Tabasco
Place_Keyword: Tamaulipas
Place_Keyword: Tlaxcala
Place_Keyword: Veracruz
Place_Keyword: Yucatan
Place_Keyword: Zacatecas
Place_Keyword: North America
Place_Keyword: Latin America
Place_Keyword: US
Place_Keyword: USA

Access_Constraints:

Access is limited to the users identified in a Master Service Agreement with Platts.

Use_Constraints:

Use is limited to the individuals identified in a Master Service Agreement with Platts.

Usage and Sourcing guidelines are detailed in the "GeospatialProductUsageSourcing" document, delivered with a subscription to Platts geospatial products and data. Please email powermap_support@platts.com for a copy.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Platts

Contact_Address:

Address_Type: mailing and physical address

Address: 10225 Westmoor Drive, Suite 325

City: Westminster

State_or_Province: CO

Postal_Code: 80021

Country: United States

Contact_Voice_Telephone: 720-45-5020

Contact_Facsimile_Telephone: 720-548-5007

Contact_Electronic_Mail_Address: custom_services@platts.com

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog
9.3.0.1770

Data_Quality_Information:

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The horizontal accuracy of Platts geospatial data meets or exceeds the National
Map Accuracy Standards for geospatial data at a 1:250,000 map scale

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

The vertical accuracy of Platts geospatial data to date has not been captured and
is unavailable

Lineage:

Process_Step:

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 10815

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: D_WGS_1984

Ellipsoid_Name: WGS_1984

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257224

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Power Plants

Entity_Type_Definition: Point features representing the location of power plants

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: CHARID

Attribute_Definition: Platts assigned identification number

Attribute:

Attribute_Label: NAME

Attribute_Definition: Plant name

Attribute:

Attribute_Label: OPERID

Attribute_Definition: Unique ID for the operating company

Attribute:

Attribute_Label: OPERATOR

Attribute_Definition: Name of the plant operator

Attribute:

Attribute_Label: POSREL

Attribute:

Attribute_Label: NEWGEN

Attribute_Definition:

Flag to identify if a power plant is included in Platts' NEWGen product

Attribute:

Attribute_Label: PLANTID

Attribute_Definition: Unique ID for the power plant

Attribute:

Attribute_Label: STATUS

Attribute_Definition: Plant status

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: OP

Enumerated_Domain_Value_Definition: Operating

Enumerated_Domain:

Enumerated_Domain_Value: OP_PL

Enumerated_Domain_Value_Definition: Operating with additional unit (s) planned

Enumerated_Domain:

Enumerated_Domain_Value: PL

Enumerated_Domain_Value_Definition: Not operating but with additional unit(s) planned

Enumerated_Domain:

Enumerated_Domain_Value: NOT_OP

Enumerated_Domain_Value_Definition: Not operating with no

additional unit(s) planned

Attribute:

Attribute_Label: OPCAP

Attribute_Definition:

Total capacity at the power plant based upon the nameplate ratings of the in service unit(s), in megawatts

Attribute:

Attribute_Label: SUMMER

Attribute_Definition: Summer capacity in megawatts

Attribute:

Attribute_Label: WINTER

Attribute_Definition: Winter capacity in megawatts

Attribute:

Attribute_Label: PRIME

Attribute_Definition:

The primary engine, turbine, water wheel, or similar technology that drives an electric generator: or, for reporting purposes, a device that converts energy to electricity directly (e.g. photovoltaic solar and fuel cells)

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: CC

Enumerated_Domain_Value_Definition: Combined Cycle

Enumerated_Domain:

Enumerated_Domain_Value: CE

Enumerated_Domain_Value_Definition: Compressed Air Energy Storage

Enumerated_Domain:

Enumerated_Domain_Value: DT

Enumerated_Domain_Value_Definition: Duct Fired Combined Cycle

Enumerated_Domain:

Enumerated_Domain_Value: FC

Enumerated_Domain_Value_Definition: Fuel Cell

Enumerated_Domain:

Enumerated_Domain_Value: GE

Enumerated_Domain_Value_Definition: Geothermal Steam Turbine

Enumerated_Domain:

Enumerated_Domain_Value: GT

Enumerated_Domain_Value_Definition: Combustion Gas Turbine

Enumerated_Domain:

Enumerated_Domain_Value: HY

Enumerated_Domain_Value_Definition: Hydro

Enumerated_Domain:

Enumerated_Domain_Value: IC

Enumerated_Domain_Value_Definition: Internal Combustion

Enumerated_Domain:

Enumerated_Domain_Value: NU

Enumerated_Domain_Value_Definition: Nuclear

Enumerated_Domain:

Enumerated_Domain_Value: OC

Enumerated_Domain_Value_Definition: Oceanic (Tidal power)

Enumerated_Domain:

Enumerated_Domain_Value: PS

Enumerated_Domain_Value_Definition: Pumped Storage

Enumerated_Domain:

Enumerated_Domain_Value: SL

Enumerated_Domain_Value_Definition: Solar

Enumerated_Domain:

Enumerated_Domain_Value: ST

Enumerated_Domain_Value_Definition: Steam Turbine

Enumerated_Domain:

Enumerated_Domain_Value: UK

Enumerated_Domain_Value_Definition: Unknown

Enumerated_Domain:

Enumerated_Domain_Value: WT

Enumerated_Domain_Value_Definition: Wind Turbine

Attribute:

Attribute_Label: PRIME2

Attribute_Definition: The secondary operating prime mover

Attribute:

Attribute_Label: FUELCAT

Attribute_Definition:

The primary generic fuel category. The most common fuel types are coal, gas, oil-l, oil-h, other, petroleum, coke, tires, trash, uranium, water and wood

Attribute:

Attribute_Label: FUEL

Attribute_Definition: The primary specific fuel type

Attribute:

Attribute_Label: FUEL2

Attribute_Definition: The secondary generic fuel category

Attribute:

Attribute_Label: PLCAP

Attribute_Definition: The planned nameplate capacity

Attribute:

Attribute_Label: PLPRIME

Attribute_Definition: The planned prime mover

Attribute:

Attribute_Label: PLFUEL

Attribute_Definition: The planned fuel type

Attribute:

Attribute_Label: HEATRATE

Attribute_Definition:

The fully loaded heat rate (Btu/kWh). This is the most recent tested heat rate under full load conditions as reported to the NERC and EIA. This value defaults to zero for non-thermal units.

Attribute:

Attribute_Label: FIRSTON

Attribute_Definition:

The year the first unit officially started supplying electricity to the grid.

Attribute:

Attribute_Label: LASTON

Attribute_Definition:

The year the last unit officially started supplying electricity to the grid.

*Attribute:**Attribute_Label:* SCRUBBED*Attribute_Definition:* Flag to identify a power plant that has scrubbers installed*Attribute:**Attribute_Label:* BARGES*Attribute_Definition:*

Flag to identify when a power plant has access to barge service.

*Attribute:**Attribute_Label:* BARGEC*Attribute_Definition:*

Flag to identify when a power plant can only be served by barge.

*Attribute:**Attribute_Label:* RAILS*Attribute_Definition:*

Flag to identify when a power plant has access to railroad service.

*Attribute:**Attribute_Label:* RAILC*Attribute_Definition:*

Flag to identify when a power plant can only be served by railroad

*Attribute:**Attribute_Label:* AVGGEN*Attribute_Definition:* Average monthly generation in megawatts*Attribute:**Attribute_Label:* CAPFACT*Attribute_Definition:*

The ratio of the average operating load of an electric generating station for a period of time to the demonstrated capacity of the station during that period, assuming 100% availability. The actual calculation is the net generation divided by the demonstrated capacity times hours in a year (or month is culling monthly data).

*Attribute:**Attribute_Label:* NETGEN*Attribute_Definition:* Net generation in MWh produced by the power plant.*Attribute:**Attribute_Label:* FUELCOST*Attribute_Definition:* Fuel cost in US dollars per MWh of net generation*Attribute:**Attribute_Label:* CAPCOST*Attribute_Definition:*

The sum of all the investment costs at the plant level in US dollars. This sum represents a running total of all additions, retirements, and adjustments at the plant level. This value should not be interpreted as a market or net book value of the power plant.

*Attribute:**Attribute_Label:* VARCOST*Attribute_Definition:*

The total variable costs, excluding fuel, divided by the net generation, in US dollars per MWh of net generation.

*Attribute:**Attribute_Label:* PRODCOST*Attribute_Definition:*

The sum of the plant level fuel, non-fuel operating and maintenance costs divided by the net generation, in US dollars per MWh of net generation.

Attribute:

Attribute_Label: OPHEAT

Attribute_Definition:

The measure of the power plant's thermal efficiency, in Btu per kilowatt hours. Calculated by dividing the total Btu content of fuel burned for generation by the resulting net kilowatt hour generation.

Attribute:

Attribute_Label: COAL

Attribute_Definition: Sum of total coal purchased in thousands of tons.

Attribute:

Attribute_Label: COALCOST

Attribute_Definition: Coal price reported in cents per million Btu of coal purchased.

Attribute:

Attribute_Label: AVGBTU

Attribute_Definition: Average heat content per ton of coal in Btu.

Attribute:

Attribute_Label: AVGSO2

Attribute_Definition:

Average sulfur content of coal reported in pounds of sulfur per million Btu of fuel delivered.

Attribute:

Attribute_Label: NATGAS

Attribute_Definition: Sum of natural gas purchased in thousands of Mcf.

Attribute:

Attribute_Label: GASCOST

Attribute_Definition:

Natural gas price reported in cents per million Btu of natural gas purchased.

Attribute:

Attribute_Label: YEAR

Attribute_Definition: Year for which power plant statistics apply.

Overview_Description:

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Platts

Contact_Address:

Address_Type: mailing and physical address

Address: 10225 Westmoor Drive, Suite 325

City: Westminster

State_or_Province: CO

Postal_Code: 80021

Country: United States

Contact_Voice_Telephone: 1-800-PLATTS8

Contact_Facsimile_Telephone: 720-548-5007

Contact_Electronic_Mail_Address: custom_services@platts.com

Resource_Description: Offline Data

Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.289

Ordering_Instructions: Contact a Platts sales associate @ 1-800-PLATTSS8

Metadata_Reference_Information:

Metadata_Date: 20090101

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Keith Holecek

Contact_Organization: Platts

Contact_Position: Product Manager

Contact_Address:

Address_Type: mailing and physical address

Address: 10225 Westmoor Drive, Suite 325

City: Westminster

State_or_Province: CO

Postal_Code: 80021

Country: United States

Contact_Voice_Telephone: 720-548-5718

Contact_Facsimile_Telephone: 720-548-5007

Contact_Electronic_Mail_Address: keith_holecek@platts.com

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Access_Constraints: NONE

Metadata_Use_Constraints: NONE

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

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