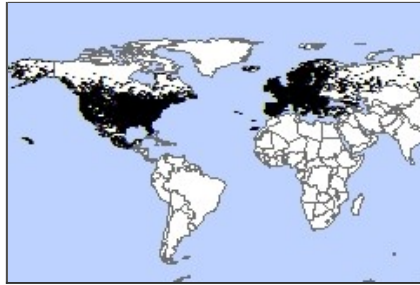


## Elec\_PowerPlants

### Shapefile



### Tags

power plant, electric, utility, coal, combined cycle, geothermal, hydro, natural gas, nuclear, solar, wind

### Summary

The S&P Global Platts Power Plants geospatial data layer was created to show the locations of power plants in North America and Europe. When used in association with the S&P Global 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.

### Description

The S&P Global Platts Power Plants geospatial layer contains point features representing the power plants in North America and Europe. This includes utility and non-utility operated power plants with at least 5MW nameplate capacity, plus many other smaller plants. The S&P Global Platts Power Plants geospatial data layer was created to show the locations of Power Plants in North America and Europe. Power plants are represented as one point per plant, and when joining unit-level data to this layer, points may be stacked to represent all units.

### Credits

Data is the property of S&P Global Platts. Data is not to be distributed without express, written consent of S&P Global Platts.

### Use limitations

Access is limited to the users identified in the Master Service Agreement (MSA) with S&P Global Platts.

### Extent

<b>West</b>	-171.742515	<b>East</b>	-52.712338
<b>North</b>	71.287583	<b>South</b>	16.190001

### Scale Range

<b>Maximum (zoomed in)</b>	1:5,000
<b>Minimum (zoomed out)</b>	1:150,000,000

### ArcGIS Metadata ►

## Topics and Keywords ►

\* CONTENT TYPE Downloadable Data

[Hide Topics and Keywords ▲](#)

## Citation ►

\* TITLE Elec\_PowerPlants

PRESENTATION FORMATS \* digital map

[Hide Citation ▲](#)

## 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 10.3.1.4959

### CREDITS

Data is the property of S&P Global Platts. Data is not to be distributed without express, written consent of S&P Global Platts.

### ARCGIS ITEM PROPERTIES

\* NAME Elec\_PowerPlants

\* SIZE 0.420

\* LOCATION file://\co07fil601

\GIS\Builds\Quarterly\_Releases\data\_2016\_q2\_NA\Elec\_PowerPlants.shp

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -171.742515

\* EAST LONGITUDE -52.712338

\* NORTH LATITUDE 71.287583

\* SOUTH LATITUDE 16.190001

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE -171.742515

\* EAST LONGITUDE -52.712338

\* SOUTH LATITUDE 16.190001

\* NORTH LATITUDE 71.287583

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

Access is limited to the users identified in the Master Service Agreement (MSA) with S&P Global Platts.

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

- \* TYPE **Geographic**
- \* GEOGRAPHIC COORDINATE REFERENCE **GCS\_WGS\_1984**
- \* COORDINATE REFERENCE DETAILS
  - GEOGRAPHIC COORDINATE SYSTEM
    - WELL-KNOWN IDENTIFIER **4326**
    - X ORIGIN **-400**
    - Y ORIGIN **-400**
    - XY SCALE **11258999068426.238**
    - Z ORIGIN **-100000**
    - Z SCALE **10000**
    - M ORIGIN **-100000**
    - M SCALE **10000**
    - XY TOLERANCE **8.983152841195215e-009**
    - Z TOLERANCE **0.001**
    - M TOLERANCE **0.001**
    - HIGH PRECISION **true**
    - LEFT LONGITUDE **-180**
    - LATEST WELL-KNOWN IDENTIFIER **4326**
    - WELL-KNOWN TEXT **GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]**

### REFERENCE SYSTEM IDENTIFIER

- \* VALUE **4326**
- \* CODESPACE **EPSG**
- \* VERSION **8.6.2**

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET **geometry only**

### GEOMETRIC OBJECTS

- FEATURE CLASS NAME **Elec\_PowerPlants**
- \* OBJECT TYPE **point**
- \* OBJECT COUNT **15710**

[Hide Vector ▲](#)

### ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME **Elec\_PowerPlants**

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Point
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 15710
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Distribution ►

DISTRIBUTION FORMAT

- \* NAME Shapefile

TRANSFER OPTIONS

- \* TRANSFER SIZE 0.420

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT [Elec\\_PowerPlants ►](#)

- \* TYPE Feature Class
- \* ROW COUNT 15710

FIELD [FID ►](#)

- \* ALIAS FID
- \* 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.

[Hide Field FID ▲](#)

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.

[Hide Field Shape ▲](#)

FIELD PLANT\_ID ►

- \* ALIAS PLANT\_ID
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

S&P Global Platts assigned power plant unique identifier

[Hide Field PLANT\\_ID ▲](#)

FIELD ID ►

- \* ALIAS ID
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 18
- \* SCALE 8

FIELD DESCRIPTION

Alternative S&P Global Platts assigned power plant unique identifier

[Hide Field ID ▲](#)

FIELD NAME ►

- \* ALIAS NAME
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Power plant name

[Hide Field NAME ▲](#)

FIELD POS\_REL ►

- \* ALIAS POS\_REL
- \* DATA TYPE String
- \* WIDTH 40
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Positional reliability rating

LIST OF VALUES

VALUE Not verified to be within 1 mile

DESCRIPTION Not verified to be within 1 mile

VALUE Within 1 mile  
DESCRIPTION Within 1 mile

VALUE Within 165 feet  
DESCRIPTION Within 165 feet

VALUE Within 40 feet  
DESCRIPTION Within 40 feet

[Hide Field POS\\_REL ▲](#)

FIELD DOMAIN ►

\* ALIAS DOMAIN  
\* DATA TYPE String  
\* WIDTH 20  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

North America or Europe coverage

[Hide Field DOMAIN ▲](#)

FIELD COUNTRY ►

\* ALIAS COUNTRY  
\* DATA TYPE String  
\* WIDTH 50  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Country name where power plant is located

[Hide Field COUNTRY ▲](#)

FIELD SHORT\_NAME ►

\* ALIAS SHORT\_NAME  
\* DATA TYPE String  
\* WIDTH 50  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Power plant short name for labeling purposes

[Hide Field SHORT\\_NAME ▲](#)

FIELD OPER\_ID ►

\* ALIAS OPER\_ID  
\* DATA TYPE Double  
\* WIDTH 19  
\* PRECISION 19  
\* SCALE 0

FIELD DESCRIPTION

S&P Global assigned operating company unique identifier

[Hide Field OPER\\_ID ▲](#)

## FIELD OPERATOR ►

- \* ALIAS OPERATOR
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

Operating company name

*Hide Field OPERATOR ▲*

## FIELD CITY ►

- \* ALIAS CITY
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

City name where power plant is located

*Hide Field CITY ▲*

## FIELD COUNTY ►

- \* ALIAS COUNTY
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

County name where power plant is located

*Hide Field COUNTY ▲*

## FIELD STATE ►

- \* ALIAS STATE
- \* DATA TYPE String
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

State name where power plant is located

*Hide Field STATE ▲*

## FIELD BENTEK\_ID ►

- \* ALIAS BENTEK\_ID
- \* DATA TYPE Integer
- \* WIDTH 10
- \* PRECISION 10
- \* SCALE 0

## FIELD DESCRIPTION

Alternative S&P Global Platts assigned power plant unique identifier

*Hide Field BENTEK\_ID ▲*

## FIELD STATUS ►

- \* ALIAS STATUS
- \* DATA TYPE String
- \* WIDTH 6
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

Power plant operational status

## LIST OF VALUES

VALUE NOT\_OP  
DESCRIPTION Not operating

VALUE OP  
DESCRIPTION Operating

VALUE OP\_PL  
DESCRIPTION Operating and new generation planned

VALUE PL  
DESCRIPTION Planned

*Hide Field STATUS ▲*

## FIELD OP\_CAP ►

- \* ALIAS OP\_CAP
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 18
- \* SCALE 2

## FIELD DESCRIPTION

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

*Hide Field OP\_CAP ▲*

## FIELD SUMMER\_CAP ►

- \* ALIAS SUMMER\_CAP
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 18
- \* SCALE 2

## FIELD DESCRIPTION

Summer operating capacity where available, measured in megawatts (MW)

*Hide Field SUMMER\_CAP ▲*

## FIELD WINTER\_CAP ►

- \* ALIAS WINTER\_CAP
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 18
- \* SCALE 2

## FIELD DESCRIPTION



Winter operating capacity where available, measured in megawatts (MW)

[Hide Field WINTER\\_CAP ▲](#)

FIELD [PRIME\\_MVR1 ▶](#)

- \* ALIAS PRIME\_MVR1
- \* DATA TYPE String
- \* WIDTH 100
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

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)

[Hide Field PRIME\\_MVR1 ▲](#)

FIELD [PRIME\\_MVR2 ▶](#)

- \* ALIAS PRIME\_MVR2
- \* DATA TYPE String
- \* WIDTH 100
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Secondary prime mover

[Hide Field PRIME\\_MVR2 ▲](#)

FIELD [FUEL\\_CAT ▶](#)

- \* ALIAS FUEL\_CAT
- \* DATA TYPE String
- \* WIDTH 11
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Primary generic fuel category

LIST OF VALUES

VALUE Coal

DESCRIPTION Primary fuel category is coal

VALUE N/A

DESCRIPTION Primary fuel category is not available

VALUE Natural Gas

DESCRIPTION Primary fuel category is natural gas

VALUE Oil

DESCRIPTION Primary fuel category is oil

VALUE Other

DESCRIPTION Primary fuel category is other

VALUE Solar

DESCRIPTION Primary fuel category is solar

VALUE Uranium  
DESCRIPTION Primary fuel category is uranium (nuclear)

VALUE Water  
DESCRIPTION Primary fuel category is water (hydro)

VALUE Wind  
DESCRIPTION Primary fuel category is wind

*Hide Field FUEL\_CAT ▲*

FIELD FUEL1 ►

\* ALIAS FUEL1  
\* DATA TYPE String  
\* WIDTH 110  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Primary specific fuel type

*Hide Field FUEL1 ▲*

FIELD FUEL2 ►

\* ALIAS FUEL2  
\* DATA TYPE String  
\* WIDTH 100  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Secondary specific fuel type

*Hide Field FUEL2 ▲*

FIELD PL\_CAP ►

\* ALIAS PL\_CAP  
\* DATA TYPE Double  
\* WIDTH 19  
\* PRECISION 19  
\* SCALE 0

FIELD DESCRIPTION

Planned nameplate capacity in megawatts (MW)

*Hide Field PL\_CAP ▲*

FIELD PL\_PRM\_MVR ►

\* ALIAS PL\_PRM\_MVR  
\* DATA TYPE String  
\* WIDTH 100  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Prime mover for planned capacity

*Hide Field PL\_PRM\_MVR ▲*

## FIELD PL\_FUEL ►

- \* ALIAS PL\_FUEL
- \* DATA TYPE String
- \* WIDTH 100
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

Primary specific fuel for planned capacity at power plant

[Hide Field PL\\_FUEL ▲](#)

## FIELD FIRST\_ONLN ►

- \* ALIAS FIRST\_ONLN
- \* DATA TYPE String
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

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

[Hide Field FIRST\\_ONLN ▲](#)

## FIELD LAST\_ONLN ►

- \* ALIAS LAST\_ONLN
- \* DATA TYPE String
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

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

[Hide Field LAST\\_ONLN ▲](#)

## FIELD AVG\_GEN ►

- \* ALIAS AVG\_GEN
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Average monthly generation in megawatts (MW)

[Hide Field AVG\\_GEN ▲](#)

## FIELD CAP\_FACT ►

- \* ALIAS CAP\_FACT
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

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).

[Hide Field CAP\\_FACT ▲](#)

FIELD NET\_GEN ►

- \* ALIAS NET\_GEN
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

FIELD DESCRIPTION

Net generation in megawatt hours (MWh) produced by the power plant

[Hide Field NET\\_GEN ▲](#)

FIELD FUEL\_COST ►

- \* ALIAS FUEL\_COST
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

FIELD DESCRIPTION

Fuel cost in US dollars per megawatt hour (MWh) of net generation

[Hide Field FUEL\\_COST ▲](#)

FIELD CAPTL\_COST ►

- \* ALIAS CAPTL\_COST
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

FIELD DESCRIPTION

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.

[Hide Field CAPTL\\_COST ▲](#)

FIELD VARI\_COST ►

- \* ALIAS VARI\_COST
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

FIELD DESCRIPTION

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

[Hide Field VARI\\_COST ▲](#)

FIELD PROD\_COST ►

- \* ALIAS PROD\_COST
- \* DATA TYPE Double

- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

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

[Hide Field PROD\\_COST ▲](#)

## FIELD OP\_HEAT ►

- \* ALIAS OP\_HEAT
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

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

[Hide Field OP\\_HEAT ▲](#)

## FIELD COAL\_PURCH ►

- \* ALIAS COAL\_PURCH
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Sum of total coal purchased in thousands of tons.

[Hide Field COAL\\_PURCH ▲](#)

## FIELD COAL\_COST ►

- \* ALIAS COAL\_COST
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Coal price reported in cents per million British Thermal Units (BTU) of coal purchased.

[Hide Field COAL\\_COST ▲](#)

## FIELD AVG\_BTU ►

- \* ALIAS AVG\_BTU
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Average heat content per ton of coal in British Thermal Units (BTU).

[Hide Field AVG\\_BTU ▲](#)

**FIELD AVG\_SO2** ▶

- \* ALIAS AVG\_SO2
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Average sulfur content of coal reported in pounds of sulfur per million British Thermal Units (BTU) of fuel delivered.

*Hide Field AVG\_SO2* ▲

**FIELD GAS\_PURCH** ▶

- \* ALIAS GAS\_PURCH
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Sum of natural gas purchased in thousands of Mcf (1,000 cubic feet of natural gas)

*Hide Field GAS\_PURCH* ▲

**FIELD GAS\_COST** ▶

- \* ALIAS GAS\_COST
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Natural gas price reported in cents per million British Thermal Units (BTU) of natural gas purchased.

*Hide Field GAS\_COST* ▲

**FIELD DATA\_YEAR** ▶

- \* ALIAS DATA\_YEAR
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 19
- \* SCALE 0

## FIELD DESCRIPTION

Year for which power plant statistics apply.

*Hide Field DATA\_YEAR* ▲

*Hide Details for object Elec\_PowerPlants* ▲

*Hide Fields* ▲

**Metadata Details** ▶

\* METADATA LANGUAGE English (UNITED STATES)

SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset

SCOPE NAME \* dataset

\* LAST UPDATE 2016-08-24

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA ItemDescription

CREATED IN ARCGIS FOR THE ITEM 2015-08-19 11:01:06

LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-08-24 15:16:47

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2016-07-01 14:43:46

*Hide Metadata Details ▲*

## Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

*Hide Thumbnail and Enclosures ▲*

## FGDC Metadata (read-only) ▼