6.3 The PLNT (Plant) File

There are 141 variables in the Plant file (PLNT).

1.   **eGRID2022 File Plant Sequence Number (SEQPLT) –**
     The plant records in the 2022 plant data file are sorted by state abbreviation and plant name, and are assigned a unique sequential number beginning with 1. This sequence number is unlikely to be the same as the sequence number in the eGRID2022 file for the same entity.

2.   **Data Year (YEAR) –**
     The current eGRID data year.

3.   **Plant State Abbreviation (PSTATABB) –**
     The state abbreviation in which the plant is located.
     Source: EIA-860

4.   **Plant Name (PNAME) –**
     The name associated with each plant.
     Source: EPA/CAMD; EIA-860

5.   **DOE/EIA ORIS Plant or Facility Code (ORISPL) –**
     This plant code corresponds to PNAME and was originally developed for power plants by the Office of Regulatory Information Systems (ORIS), which was a part of the Federal Power Commission. It is now assigned by EIA and is used as a unique plant identification code for many EPA electric power databases, too. Note that some EIA ORISPL ID codes were changed to reflect CAMD's Power Sector Emissions Data ORISPL ID codes. See Section 5.1 for a discussion of ORISPL ID changes made to eGRID2022. See Table C-5 in Appendix C for a table of all ORISPL changes made between EIA and CAMD's Power Sector Emissions Data.
     Source: EPA/CAMD; EIA-860

6.   **Plant Transmission or Distribution System Owner Name (OPRNAME) –**
     The name associated with the owner of the transmission or distribution system company to which the plant is interconnected.
     Source: EIA-860

7.   **Plant Transmission or Distribution System Owner ID (OPRCODE) –**
     The transmission or distribution system owner ID. Each transmission or distribution system has a unique company code assigned by EIA, with some exceptions. Plants with no operating company ID assigned by EIA are listed as -9999 in eGRID2022.
     Source: EIA-860

8.   **Utility Name (UTLSRVNM) –**
     The name of the owner of the utility service territory (a utility company or EGC) [and previously known as the utility service area] in which the plant is located.
     Source: EIA-860

9.   **Utility ID (UTLSRVID) –**
        The unique ID code associated with the utility name.
        Source: EIA-860

10.   **Plant-level Sector (SECTOR) –**
        The plant level sector name, assigned by the purpose, regulatory status, and CHP
        status at the plant.
        Possible values are:

        •   Commercial CHP
        •   Commercial Non-CHP
        •   Electric Utility
        •   Industrial CHP
        •   Industrial Non-CHP
        •   Independent Power Producer (IPP) CHP
        •   Independent Power Producer (IPP) Non-CHP
        Source: EIA-860

11.   **Balancing Authority Name (BANAME) –**
        The name of the balancing authority for the plant. The balancing authority is
        associated with the plant's eGRID subregion and NERC region.
        Source: EIA-860, EIA-861

12.   **Balancing Authority Code (BACODE) –**
        The code of the balancing authority for the plant.
        Source: EIA-860, EIA-861

13.   **NERC Region Acronym (NERC) –**
        The acronym for the NERC region in which the plant is located. The NERC region is
        associated with the plant's BA and eGRID subregion. A representation of the eGRID
        NERC region map is included in Appendix B.
        Source: EIA-860

14.   **eGRID Subregion Acronym (SUBRGN) –**
        The acronym for the eGRID subregion in which the plant is located. The eGRID
        subregion is associated with the plant's balancing authority and NERC region. A
        representation of the eGRID subregion map is included in Appendix B.
        Source: EPA

15.   **eGRID Subregion Name (SRNAME) –**
        The name of the eGRID subregion in which the plant is located.
        Source: EPA

16.   **Plant Associated ISO/RTO Territory (ISORTO) –**
        The name, if applicable, of the Independent System Operator (ISO) or Regional
        Transmission Organization (RTO) associated with the plant.
        Possible values are CAISO, ERCOT, ISONE, MISO, NYISO, PJM, SPP, or blank.
        Source: EIA-860

17. **Plant FIPS State Code (FIPSST)** –
The two-digit Federal Information Processing Standards (FIPS) state character code of the state in which the plant is located. The codes are from the National Institute of Standards and Technology (US Census, 2021).
Source: US Census

18. **Plant FIPS County Code (FIPSCNTY)** –
The three digit FIPS county character code of the county in which the plant is located. The codes are from the National Institute of Standards and Technology (US Census, 2021).
Source: US Census

19. **Plant County Name (CNTYNAME)** –
The name of the county in which the plant is located.
Source: EIA-860

20. **Plant Latitude (LAT)** –
The latitude, in degrees to four decimal places, associated with the plant.
Source: EIA-860

21. **Plant Longitude (LON)** –
The longitude, in degrees to four decimal places, associated with the plant.
Source: EIA-860

22. **Clean Air Markets Division (CAMD) Program Flag (CAMDFLAG)** –
Indicates if the plant was included in CAMD's Power Sector Emissions Data in 2022. See https://www.epa.gov/airmarkets/programs for additional information.
Source: EPA/CAMD

23. **Number of Units (NUMUNT)** –
The number of operating units within a plant.
Source: EIA-860

24. **Number of Generators (NUMGEN)** –
The number of potentially operating generators within a plant.
Source: EIA-860

25. **Plant Primary Fuel (PLPRMFL)** –
The plant's primary fuel based on maximum heat input of fuel consumed by the plant. If the plant does not consume fuel, it is based on the maximum nameplate capacity. Possible values are:

AB	= Agricultural byproduct
BFG	= Blast furnace gas
BIT	= Bituminous coal
BLQ	= Black liquor
COG	= Coke oven gas

DFO	= Distillate fuel oil, light fuel oil, diesel oil
GEO	= Geothermal steam
H	= Hydrogen
JF	= Jet fuel
KER	= Kerosene
LFG	= Landfill gas
LIG	= Lignite coal
MSW	= Municipal solid waste
MWH	= Electricity used for energy storage (megawatt hour)
NG	= Natural gas
NUC	= Nuclear material
OBG	= Other biomass gas
OBL	= Other biomass liquid
OBS	= Other biomass solid
OG	= Other gas
OTH	= Other (unknown)
PC	= Petroleum coke
PG	= Gaseous propane
PRG	= Process gas
PUR	= Purchased fuel (unknown)
RC	= Refined coal
RFO	= Residual fuel oil, heavy fuel oil, petroleum
SGC	= Coal-derived synthetic gas
SLW	= Sludge waste
SUB	= Subbituminous coal
SUN	= Sun
TDF	= Tire-derived fuel
WAT	= Water
WC	= Waste coal
WDL	= Wood, wood waste liquid
WDS	= Wood, wood waste solid
WH	= Waste heat
WND	= Wind
WO	= Waste oil

Source: EPA/CAMD; EIA-860

26. **Plant Primary Fuel Category (PLFUELCT) –**
The fuel category for the primary fuel of the plant. This field is "COAL" if the plant's primary fuel is derived from coal (fuel type = BIT, COG, LIG, RC, SGC, SUB, WC), "OIL" if it is derived from oil (DFO, JF, KER, PC, RFO, WO), "GAS" if it is derived from gas (NG, PG), "OFSL" if it is another fossil fuel (BFG, OG, TDF), "NUCLEAR" if it is derived from nuclear (NUC), "HYDRO" if it is derived from hydro power (WAT), "SOLAR" if it is derived from solar power, (SUN), "WIND" if it is derived from wind power (WND), "GEOTHERMAL" if it is derived from geothermal power (GEO), "OTHF" if it is derived from waste heat/hydrogen/purchased/unknown (H, MWH, OTH, PRG, PUR, WH), and "BIOMASS" if it is derived from biomass sources (AB, BLQ, LFG, MSW, OBG, OBL, OBS, SLW, WDL, WDS).

27. Flag indicating if the plant burned or generated any amount of coal (COALFLAG) –
A flag to indicate if the plant burned coal or if it has positive heat input and generated electricity from coal. The plant will not be flagged if the plant has negative coal generation and no coal heat input for 2022.

28. Plant Capacity Factor (CAPFAC) –
The plant capacity factor, expressed with four decimal places. It is calculated as follows:
CAPFAC = (PLNGENAN / (NAMEPCAP * 8760))
Although the value should be between 0 and 1, there are outliers.

29. Plant Nameplate Capacity (NAMEPCAP) –
The nameplate capacity of the plant, in MW.
Source: EIA-860

30. Nonbaseload Factor (NBFACTOR) –
The proportion of generation that is considered nonbaseload generation. A value of 0 means that all of the generation is baseload generation. See Section 3 for more information.
Source: Calculated

31. Biogas/Biomass Plant Adjustment Flag (RMBMFLAG) –
A biogas (landfill gas, digester gas)/biomass adjustment flag used to indicate where emissions are adjusted for plants using biogas or biomass fuels. A facility's emissions reported in eGRID may be different from that reported in other EPA sources, such as CAMD's Power Sector Emissions Data, due to this adjustment.

32. Combined Heat and Power (CHP) Plant Adjustment Flag (CHPFLAG) –
A flag to indicate if the plant is a CHP facility. A CHP facility's emissions and heat input reported in eGRID may be different from that reported in other EPA sources, such as CAMD's Power Sector Emissions Data, due to this adjustment.
Source: EPA/CAMD; EIA-860

33. CHP Plant Useful Thermal Output (USETHRMO) –
The useful thermal output, in MMBtu, estimated for a CHP facility.
Source: EIA-923 calculated

34. CHP Plant Power to Heat Ratio (PWRTOHT) –
The power to heat ratio for a CHP facility, which is the ratio of the heat value of electricity generated (3413 * kWh output) to the facility's useful thermal output.

35. CHP Plant Electric Allocation Factor (ELCALLOC) –
The CHP plant's decimal fraction of the emissions that are attributed to electricity. It is derived as the ratio of the electric heat output to the sum of the electric and steam heat outputs, where the steam output is 75% of the useful thermal output. The electric allocation factor is used to allocate emissions from a CHP facility to both electricity

generation and useful thermal output. For non-CHP plants, eGRID uses an electric allocation factor of 1.0.

36.   **Plant Pumped Storage Flag (PSFLAG) –**
Indicates if the plant has at least one pumped storage generator.
Source: EIA-860

37.   **Plant Annual Heat Input from Combustion (PLHTIAN) –**
The total annual heat input from combustion, in MMBtu, for the plant. For CHP plants, the value is adjusted by the electric allocation factor.

38.   **Plant Ozone Season Heat Input from Combustion (PLHTIOZ) –**
The five-month ozone season (May through September) heat input from combustion, in MWh, for the plant. For CHP plants, the value is adjusted by the electric allocation factor.

39.   **Plant Total Annual Heat Input (PLHTIANT) –**
The total annual heat input from combustion and noncombustion units, in MMBtu, for the plant. For CHP plants, the value is adjusted by the electric allocation factor.

40.   **Plant Total Ozone Season Heat Input (PLHTIOZT) –**
The five-month ozone season (May through September) heat input from combustion and noncombustion units, in MWh, for the plant. For CHP plants, the value is adjusted by the electric allocation factor.

41.   **Plant Annual Net Generation (PLNGENAN) –**
The total reported annual net generation, in MWh, for the plant, summed from the Unit file.
Source: EIA-923

42.   **Plant Ozone Season Net Generation (PLNGENOZ) –**
The five-month ozone season (May through September) net generation for the plant.
Source: EIA-923

43.   **Plant Annual NO$_x$ Emissions (PLNOXAN) –**
The total annual NO$_x$ emissions, in short tons, for the plant. Biogas components are adjusted. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the biogas adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

44.   **Plant Ozone Season NO$_x$ Emissions (PLNOXOZ) –**
The five-month ozone season (May through September) NO$_x$ emissions, in short tons, for the plant. Biogas components are adjusted. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the biogas adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

45. **Plant Annual SO₂ Emissions (PLSO2AN)** –
The total annual SO_2 emissions, in short tons, for the plant. Landfill gas components are adjusted. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the landfill gas adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

46. **Plant Annual CO₂ Emissions (PLCO2AN)** –
The total annual CO_2 emissions, in short tons, for the plant. All CO_2 emissions from biomass fuels are adjusted to zero. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the biomass adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

47. **Plant Annual CH₄ Emissions (PLCH4AN)** –
The total annual CH_4 emissions, in pounds, for the plant. Biogas biomass components are adjusted. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the biomass adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

48. **Plant Annual N₂O Emissions (PLN2OAN)** –
The total annual N_2O emissions, in pounds for the plant. Biogas biomass components are adjusted. For CHP plants, the value is adjusted by the electric allocation factor. This adjusted emissions field is estimated by first making the biomass adjustment (if it exists) and then applying the electric allocation factor (if the plant is a CHP).

49. **Plant Annual CO₂ Equivalent Emissions (PLCO2EQA)** –
The annual CO_2 equivalent emissions, in short tons, for the plant. This value is a universal standard of measurement. The GWPs from the fourth IPCC assessment are used for the calculation; the formula is as follows:
PLCO2EQA = ((1* PLCO2AN) + (25* PLCH4AN / 2000) + (298 * PLN2OAN / 2000)).

50. **Plant Annual Hg Emissions (PLHGAN)** –
Not calculated for eGRID2022.

51. **Plant Annual NOₓ Total Output Emission Rate (PLNOXRTA)** –
This field, in lb/MWh, is calculated as follows:
PLNOXRTA = 2000 * (PLNOXAN / PLNGENAN).

52. **Plant Ozone Season NOₓ Total Output Emission Rate (PLNOXRTO)** –
This field, in lb/MWh, is calculated as follows:
PLNOXRTO = 2000 * (PLNOXOZ / PLNGENOZ).

53. **Plant Annual SO₂ Total Output Emission Rate (PLSO2RTA)** –
This field, in lb/MWh, is calculated as follows:
PLSO2RTA = 2000 * (PLSO2AN / PLNGENAN).

54. **Plant Annual CO$_2$ Total Output Emission Rate (PLCO2RTA)** –
This field, in lb/MWh, is calculated as follows:
PLCO2RTA = 2000 * (PLCO2AN / PLNGENAN).

55. **Plant Annual CH$_4$ Total Output Emission Rate (PLCH4RTA)** –
This field, in lb/MWh, is calculated as follows:
PLCH4RTA = PLCH4AN / PLNGENAN.

56. **Plant Annual N$_2$O Total Output Emission Rate (PLN2ORTA)** –
This field, in lb/MWh, is calculated as follows:
PLN2ORTA = PLN2OAN / PLNGENAN

57. **Plant Annual CO$_2$ Equivalent Total Output Emission Rate (PLC2ERTA)** –
This field, in lb/MWh, is calculated as follows:
PLC2ERTA = 2000 * (PLCO2EQA / PLNGENAN).

58. **Plant Annual Hg Total Output Emission Rate (PLHGRTA)** –
Not calculated for eGRID2022.

59. **Plant Annual NO$_x$ Input Emission Rate (PLNOXRA)** –
This field, in lb/MMBtu, is calculated as follows:
PLNOXRA = 2000 * (PLNOXAN / PLHTIAN).

60. **Plant Ozone Season NO$_x$ Input Emission Rate (PLNOXRO)** –
This field, in lb/MMBtu, is calculated as follows:
PLNOXRO = 2000 * (PLNOXOZ / PLHTIOZ).

61. **Plant Annual SO$_2$ Input Emission Rate (PLSO2RA)** –
This field, in lb/MMBtu, is calculated as follows:
PLSO2RA = 2000 * (PLSO2AN / PLHTIAN).

62. **Plant Annual CO$_2$ Input Emission Rate (PLCO2RA)** –
This field, in lb/MMBtu, is calculated as follows:
PLCO2RA = 2000 * (PLCO2AN / PLHTIAN).

63. **Plant Annual CH$_4$ Input Emission Rate (PLCH4RA)** –
This field, in lb/MMBtu, is calculated as follows:
PLCO2RA = 2000 * (PLCH4AN / PLHTIAN).

64. **Plant Annual N$_2$O Input Emission Rate (PLN2ORA)** –
This field, in lb/MMBtu, is calculated as follows:
PLCO2RA = 2000 * (PLN2OAN / PLHTIAN).

65. **Plant Annual CO$_2$ Equivalent Input Emission Rate (PLC2ERA)** –
This field, in lb/MMBtu, is calculated as follows:
PLCO2RA = 2000 * (PLCO2EQA / PLHTIAN).

66. **Plant Annual Hg Input Emission Rate (PLHGRA) –**
Not calculated for eGRID2022.

67. **Plant Annual NOₓ Combustion Output Emission Rate (PLNOXCRT) –**
This field, in lb/MWh, is calculated as follows:
PLNOXCRT = 2000 * (PLNOXAN / PLGENACY).

68. **Plant Ozone Season NOₓ Combustion Output Emission Rate (PLNOXCRO) –**
This field, in lb/MWh, is calculated as follows:
PLNOXCRO = 2000 * (PLNOXOZ / ((PLGENACY * PLNGENOZ) / PLNGENAN)).

69. **Plant Annual SO₂ Combustion Output Emission Rate (PLSO2CRT) –**
This field, in lb/MWh, is calculated as follows:
PLSO2CRT = 2000 * (PLSO2AN / PLGENACY).

70. **Plant Annual CO₂ Combustion Output Emission Rate (PLCO2CRT) –**
This field, in lb/MWh, is calculated as follows:
PLCO2CRT = 2000 * (PLCO2AN / PLGENACY).

71. **Plant Annual CH₄ Combustion Output Emission Rate (PLCH4CRT) –**
This field, in lb/MWh, is calculated as follows:
PLCH4CRT = PLCH4AN / PLGENACY.

72. **Plant Annual N₂O Combustion Output Emission Rate (PLN2OCRT) –**
This field, in lb/MWh, is calculated as follows:
PLN2OCRT = PLN2OAN / PLGENACY.

73. **Plant Annual CO₂ Equivalent Combustion Output Emission Rate (PLC2ECRT) –**
This field, in lb/MWh, is calculated as follows:
PLC2ECRT = 2000 * (PLCO2EQA / PLGENACY).

74. **Plant Annual Hg Combustion Output Emission Rate (PLHGCRT) –**
Not calculated for eGRID2022.

75. **Plant Unadjusted Annual NOₓ Emissions (UNNOX) –**
The total plant-level unadjusted annual NOₓ emissions, in short tons.

76. **Plant Unadjusted Ozone Season NOₓ Emissions (UNNOXOZ) –**
The unadjusted five-month ozone season (May through September) NOₓ emissions, in short tons, for the plant.

77. **Plant Unadjusted Annual SO₂ Emissions (UNSO2)** –
The total plant-level unadjusted annual SO_2 emissions, in short tons.

78. **Plant Unadjusted Annual CO₂ Emissions (UNCO2)** –
The total plant-level unadjusted annual CO_2 emissions, in short tons.

79. **Plant Unadjusted Annual CH₄ Emissions (UNCH4)** –
The total plant-level unadjusted annual CH_4 emissions, in pounds.

80. **Plant Unadjusted Annual N₂O Emissions (UNN2O)** –
The total plant-level unadjusted annual N_2O emissions, in pounds.

81. **Plant Unadjusted Annual Hg Emissions (UNHG)** –
Not calculated for eGRID2022.

82. **Plant Unadjusted Annual Heat Input from Combustion (UNHTI)** –
The total plant-level unadjusted annual heat input from combustion, in MMBtu.
Sources: EPA/CAMD, EIA-923

83. **Plant Unadjusted Ozone Season Heat Input from Combustion (UNHTIOZ)** –
The five-month ozone season (May through September) heat input from combustion,
in MMBtu for the plant.
Sources: EPA/CAMD, EIA-923

84. **Plant Unadjusted Total Annual Heat Input (UNHTIT)** –
The total plant-level unadjusted annual heat input from combustion and
noncombustion units, in MMBtu.
Sources: EPA/CAMD, EIA-923

85. **Plant Unadjusted Total Ozone Season Heat Input (UNHTIOZT)** –
The five-month ozone season (May through September) heat input from combustion
and noncombustion units, in MMBtu for the plant.
Sources: EPA/CAMD, EIA-923

86. **Plant Unadjusted Annual NOₓ Emissions Source (UNNOXSRC)** –
The source of plant-level unadjusted annual NO_x emissions.

87. **Plant Unadjusted Ozone Season NOₓ Emissions Source (UNNOZSRC)** –
The source of plant-level unadjusted ozone NO_x emissions.

88. **Plant Unadjusted Annual SO₂ Emissions Source (UNSO2SRC)** –
The source of plant-level unadjusted annual SO_2 emissions.

89. **Plant Unadjusted Annual CO₂ Emissions Source (UNCO2SRC)** –
The source of plant-level unadjusted annual CO_2 emissions.

90. **Plant Unadjusted Annual CH₄ Emissions Source (UNCH4SRC)** –

The source of plant-level unadjusted annual CH_4 emissions.

91. **Plant Unadjusted Annual N₂O Emissions Source (UNN2OSRC) –**
The source of plant-level unadjusted annual N_2O emissions.

92. **Plant Unadjusted Annual Hg Emissions Source (UNHGSRC) –**
Not calculated for eGRID2022.

93. **Plant Unadjusted Annual Heat Input Source (UNHTISRC) –**
The source of plant-level unadjusted annual heat input.

94. **Plant Unadjusted Ozone Season Heat Input Source (UNHOZSRC) –**
The source of plant-level unadjusted ozone season heat input.

95. **Plant Annual NO$_x$ Biomass Emissions (BIONOX) –**
The annual plant-level NO_x biomass emissions, in short tons. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

96. **Plant Ozone Season NO$_x$ Biomass Emissions (BIONOXOZ) –**
The five-month ozone season (May through September) plant-level NO_x biomass emissions, in short tons. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

97. **Plant Annual SO₂ Biomass Emissions (BIOSO2) –**
The annual plant-level SO_2 biomass emissions, in short tons. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

98. **Plant Annual CO₂ Biomass Emissions (BIOCO2) –**
The annual plant-level CO_2 biomass emissions, in short tons. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

99. **Plant Annual CH₄ Biomass Emissions (BIOCH4) –**
The annual plant-level CH_4 biomass emissions, in pounds. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

100. **Plant Annual N₂O Biomass Emissions (BION2O) –**
The annual plant-level N_2O biomass emissions, in pounds. This is the value the total emissions are adjusted by for the biomass emissions adjustments. See Section 3.1.2.1 for more information.
Source: EIA-923

101. **Plant Combustion Annual Heat Input CHP Adjustment Value (CHPCHTI)** –
The annual plant-level heat input adjustment value for CHP plants, in MMBtu. See Section 3.1.2.2 for more information.

102. **Plant Combustion Ozone Season Heat Input CHP Adjustment Value (CHPCHTIOZ)** –
The five-month ozone season (May through September) plant-level heat input adjustment value for CHP plants, in MMBtu. See Section 3.1.2.2 for more information.

103. **Plant Annual NO$_x$ Emissions CHP Adjustment Value (CHPNOX)** –
The annual plant-level NO$_x$ emissions adjustment value for CHP plants, in short tons. See Section 3.1.2.2 for more information.

104. **Plant Ozone season NO$_x$ Emissions CHP Adjustment Value (CHPNOXOZ)** –
The five-month ozone season (May through September) plant-level NO$_x$ emissions adjustment value for CHP plants, in short tons. See Section 3.1.2.2 for more information.

105. **Plant Annual SO$_2$ Emissions CHP Adjustment Value (CHPSO2)** –
The annual plant-level SO$_2$ emissions adjustment value for CHP plants, in short tons. See Section 3.1.2.2 for more information.

106. **Plant Annual CO$_2$ Emissions CHP Adjustment Value (CHPCO2)** –
The annual plant-level CO$_2$ emissions adjustment value for CHP plants, in short tons. See Section 3.1.2.2 for more information.

107. **Plant Annual CH$_4$ Emissions CHP Adjustment Value (CHPCH4)** –
The annual plant-level CH$_4$ emissions adjustment value for CHP plants, in pounds. See Section 3.1.2.2 for more information.

108. **Plant Annual N$_2$O Emissions CHP Adjustment Value (CHPN2O)** –
The annual plant-level N$_2$O emissions adjustment value for CHP plants, in pounds. See Section 3.1.2.2 for more information.

109. **Plant Nominal Heat Rate (PLHTRT)** –
The plant nominal heat rate, in Btu/kWh, for partial combustion plants. It is calculated as follows:

PLHTRT = 1000 * (PLHTIAN / PLGENACY)
For CHP plants, the value is, in effect, adjusted by the electric allocation factor, since the heat input has been adjusted.

110. **Plant Annual Coal Net Generation (PLGENACL)** –
The plant annual net generation, in MWh, for coal. Fuel codes that are included in coal are BIT, COG, SUB, LIG, WC, and SC.

111. **Plant Annual Oil Net Generation (PLGENAOL)** –
The plant annual net generation, in MWh, for oil. Fuel codes included in oil are DFO, JF, KER, OO, PC, RFO, RG, and WO.

112. **Plant Annual Gas Net Generation (PLGENAGS)** –
The plant annual net generation, in MWh, for natural gas. Fuel codes included in gas are NG and PG.

113. **Plant Annual Nuclear Net Generation (PLGENANC)** –
The plant annual net generation, in MWh, for nuclear. The fuel code is NUC.

114. **Plant Annual Hydro Net Generation (PLGENAHY)** –
The plant annual net generation, in MWh, for hydro. The fuel code is WAT.

115. **Plant Annual Biomass Net Generation (PLGENABM)** –
The annual net generation, in MWh, for biomass. Biomass is a fuel derived from organic matter such as wood and paper products, agricultural waste, or methane (e.g., from landfills). The renewable portion of solid waste, fuel code MSB, is included as biomass, as are AB, BLQ, DG, LFG, ME, OBL, OBS, PP, SLW, WDL, and WDS.

116. **Plant Annual Wind Net Generation (PLGENAWI)** –
The plant annual net generation, in MWh, for wind. The fuel code is WND.

117. **Plant Annual Solar Net Generation (PLGENASO)** –
The plant annual net generation, in MWh, for solar. The fuel code is SUN.

118. **Plant Annual Geothermal Net Generation (PLGENAGT)** –
The plant annual net generation, in MWh, for geothermal. The fuel code is GEO.

119. **Plant Annual Other Fossil Net Generation (PLGENAOF)** –
The plant annual net generation, in MWh, for other fossil fuel that cannot be categorized as coal, oil, or gas. Other fossil fuel codes include BFG, COG, HY, LB, MH, MSF, OG, PRG, and TDF. The nonrenewable portion of solid waste, fuel code MSN, is included as other fossil.

120. **Plant Annual Other Unknown/ Purchased Fuel Net Generation (PLGENAOP)** –
The plant annual net generation, in MWh, for other unknown/purchased. Fuel codes include OTH, PUR, or WH.

121. **Plant Annual Total Nonrenewables Net Generation (PLGENATN)** –
The annual total nonrenewables net generation, in MWh, for the plant. Nonrenewables are exhaustible energy resources such as coal, oil, gas, other fossil, nuclear power, and other unknown/purchased fuel. This field is the sum of PLGENACL, PLGENAOL, PLGENAGS, PLGENAOF, PLGENANC, and PLGENAOP.

122. **Plant Annual Total Renewables Net Generation (PLGENATR)** –
The annual total renewables net generation, in MWh, for the plant. Renewables are inexhaustible energy resources such as biomass, wind, solar, geothermal, and hydro.

This field is the sum of PLGENABM, PLGENAWI, PLGENASO, PLGENAGT, and PLGENAHY.

123. **Plant Annual Total Nonhydro Renewables Net Generation (PLGENATH) –**
The annual total nonhydro renewables net generation, in MWh, for the plant. This field is the sum of PLGENABM, PLGENAWI, PLGENASO, and PLGENAGT.

124. **Plant Annual Total Combustion Net Generation (PLGENACY) –**
The annual total combustion net generation, in MWh, for the plant. This field is the sum of PLGENACL, PLGENAOL, PLGENAGS, PLGENAOF, PLGENABM, and PLGENAOP.

125. **Plant Annual Total Noncombustion Net Generation (PLGENACN) –**
The annual total noncombustion net generation, in MWh, for the plant. This field is the sum of PLGENANC, PLGENAHY, PLGENAWI, PLGENASO, and PLGENAGT.

126. **Plant Coal Generation Percent (PLCLPR) –**
The coal resource mix expressed as a percent of plant annual net generation.
PLCLPR = 100 * (PLGENACL / PLNGENAN).

127. **Plant Oil Generation Percent (PLOLPR) –**
The oil resource mix expressed as a percent of plant annual net generation.
PLOLPR = 100 * (PLGENAOL / PLNGENAN).

128. **Plant Gas Generation Percent (PLGSPR) –**
The gas resource mix expressed as a percent of plant annual net generation.
PLGSPR = 100 * (PLGENAGS / PLNGENAN).

129. **Plant Nuclear Generation Percent (PLNCPR) –**
The nuclear resource mix expressed as a percent of plant annual net generation.
PLNCPR = 100 * (PLGENANC / PLNGENAN).

130. **Plant Hydro Generation Percent (PLHYPR) –**
The hydro resource mix expressed as a percent of plant annual net generation.
PLHYPR = 100 * (PLGENAHY / PLNGENAN).

131. **Plant Biomass Generation Percent (PLBMPR) –**
The biomass resource mix expressed as a percent of plant annual net generation.
PLBMPR = 100 * (PLGENABM / PLNGENAN).

132. **Plant Wind Generation Percent (PLWIPR) –**
The wind resource mix expressed as a percent of plant annual net generation.
PLWIPR = 100 * (PLGENAWI / PLNGENAN).

133. **Plant Solar Generation Percent (PLSOPR) –**
The solar resource mix expressed as a percent of plant annual net generation.
PLSOPR = 100 * (PLGENASO / PLNGENAN).

134. **Plant Geothermal Generation Percent (PLGTPR) –**
The geothermal resource mix expressed as a percent of plant annual net generation.
PLGTPR = 100 * (PLGENAGT / PLNGENAN).

135. **Plant Other Fossil Generation Percent (PLOFPR) –**
The other fossil resource mix expressed as a percent of plant annual net generation.
PLOFPR = 100 * (PLGENAOF / PLNGENAN).

136. **Plant Other Unknown/Purchased Fuel Generation Percent (PLOPPR) –**
The other unknown/purchased fuel/waste heat resource mix expressed as a percent of plant annual net generation.
PLOPPR = 100 * (PLGENAOP / PLNGENAN).

137. **Plant Total Nonrenewables Generation Percent (PLTNPR) –**
The total nonrenewables resource mix expressed as a percent of plant annual net generation.
PLTNPR = 100 * (PLGENATN / PLNGENAN).

138. **Plant Total Renewables Generation Percent (PLTRPR) –**
The total renewables resource mix expressed as a percent of plant annual net generation.
PLTRPR = 100 * (PLGENATR / PLNGENAN).

139. **Plant Total Nonhydro Renewables Generation Percent (PLTHPR) –**
The total nonhydro renewables resource mix expressed as a percent of plant annual net generation.
PLTHPR = 100 * (PLGENATH / PLNGENAN).

140. **Plant Total Combustion Generation Percent (PLCYPR) –**
The total combustion resource mix expressed as a percent of plant annual net generation.
PLCYPR = 100 * (PLGENACY / PLNGENAN).

141. **Plant Total Noncombustion Generation Percent (PLCNPR) –**
The total noncombustion resource mix expressed as a percent of plant annual net generation.
PLCNPR = 100 * (PLGENACN / PLNGENAN).