Appendix A

# State Energy Data System Variables

This is an alphabetical listing of all the variable names used in the State Energy Data System (SEDS). Provided for each variable on the system are: a brief description of the variable; units of the variable as found in SEDS; and the formulas used in SEDS to create the variable. If a variable is not one created by SEDS but is entered into the system, it is described as an independent variable. Formulas are provided for the State calculations ("ZZ" in the variable name would be replaced by the two-letter code for each State) and for the U.S. calculation (wherever appropriate).

Variables in the SEDS have seven-letter names that consist of the following components:

| **Character Positions:** | **1 and 2** | **3 and 4** | **5** | **6 and 7** |
|---|---|---|---|---|
| **Identify:** | Type of energy | Energy activity or consumption end-use sector | Type of data | Geographic area |

Characters 1 through 4 are explained in the description of each variable.

Character 5 is always one of the following:

B = Data in British thermal units (Btu)
K = Factor for converting data from physical units to Btu
M = Data in alternative physical units
P = Data in standardized physical units
S = Share or ratio expressed as a fraction
V = Value added in manufacture.

Characters 6 and 7 are two-letter U.S. Postal Service codes for the 50 States and the District of Columbia (represented by "ZZ" in the following variable names) and the United States ("US"). In this system, the United States means the 50 States and the District of Columbia. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia. The variables used in those calculations are identified by "48" as characters 6 and 7 in the variable names.

| | | | |
|---|---|---|---|
| ABICB | Aviation gasoline blending components total consumed by the industrial sector. | Billion Btu | ABICBZZ = ABTCBZZ<br>ABICBUS = ABTCBUS |
| ABICP | Aviation gasoline blending components total consumed by the industrial sector. | Thousand barrels | ABICPZZ = ABTCPZZ<br>ABICPUS = ABTCPUS |
| ABTCB | Aviation gasoline blending components total consumed. | Billion Btu | ABTCBZZ = ABTCPZZ * 5.048<br>ABTCBUS = ABTCBZZ |
| ABTCP | Aviation gasoline blending components total consumed. | Thousand barrels | ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS<br>ABTCPUS is independent. |
| AICAP | Aluminum ingot production capacity. | Short tons | AICAPZZ is independent.<br>AICAPUS = AICAPZZ |
| ARICB | Asphalt and road oil consumed by the industrial sector. | Billion Btu | ARICBZZ = ARICPZZ * 6.636<br>ARICBUS = ARICBZZ |
| ARICP | Asphalt and road oil consumed by the industrial sector. | Thousand barrels | ARICPZZ = ASICPZZ + RDICPZZ<br>ARICPUS = ARICPZZ |
| ARTCB | Asphalt and road oil total consumed. | Billion Btu | ARTCBZZ = ARICBZZ<br>ARTCBUS = ARICBUS |
| ARTCP | Asphalt and road oil total consumed. | Thousand barrels | ARTCPZZ = ASTCPZZ + RDTCPZZ<br>ARTCPUS = ARTCPZZ |
| ASICP | Asphalt consumed by the industrial sector. | Thousand barrels | ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS<br>ASICPUS = ASICPZZ |
| ASINP | Asphalt sold to the industrial sector. | Short tons | ASINPZZ is independent.<br>ASINPUS = ASINPZZ |
| ASTCP | Asphalt total consumed. | Thousand barrels | ASTCPZZ = ASICPZZ<br>ASTCPUS is independent. |
| AVACB | Aviation gasoline consumed by the transportation sector. | Billion Btu | AVACBZZ = AVACPZZ * 5.048<br>AVACBUS = AVACBZZ |
| AVACP | Aviation gasoline consumed by the transportation sector. | Thousand barrels | AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS<br>AVACPUS = AVACPZZ |
| AVMIP | Aviation gasoline issued to the military. | Thousand barrels | AVMIPZZ is independent.<br>AVMIPUS = AVMIPZZ |

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|---|---|---|---|
| AVNMM | Aviation gasoline sold to nonmilitary users. | Thousand gallons | AVNMMZZ is independent.<br>AVNMMUS =   AVNMMZZ |
| AVNMP | Aviation gasoline sold to nonmilitary users. | Thousand barrels | AVNMPZZ = AVNMMZZ / 42<br>AVNMPUS =   AVNMPZZ |
| AVTCB | Aviation gasoline total consumed. | Billion Btu | AVTCBZZ = AVACBZZ<br>AVTCBUS = AVACBUS |
| AVTCP | Aviation gasoline total consumed. | Thousand barrels | AVTCPZZ = AVACPZZ<br>AVTCPUS is independent. |
| AVTTP | Aviation gasoline total sales to the transportation sector. | Thousand barrels | AVTTPZZ = AVNMPZZ + AVMIPZZ<br>AVTTPUS =   AVTTPZZ |
| CCEXBUS | Coal coke exported from the United States. | Billion Btu | CCEXBUS = CCEXPUS * 24.80 |
| CCEXPUS | Coal coke exported from the United States. | Thousand short tons | CCEXPUS is independent. |
| CCIMBUS | Coal coke imported into the United States. | Billion Btu | CCIMBUS = CCIMPUS * 24.80 |
| CCIMPUS | Coal coke imported into the United States. | Thousand short tons | CCIMPUS is independent. |
| CCNIBUS | Coal coke net imports into the United States. | Billion Btu | CCNIBUS = CCIMBUS – CCEXBUS |
| CCNIPUS | Coal coke net imports into the United States. | Thousand short tons | CCNIPUS = CCIMPUS – CCEXPUS |
| CGVAV | Value added in the manufacture of corrugated and solid fiber boxes. | Million dollars | CGVAVZZ is independent.<br>CGVAVUS =   CGVAVZZ |
| CLACB | Coal consumed by the transportation sector. | Billion Btu | CLACBZZ = CLACPZZ*CLOCKZZ<br>CLACBUS =   CLACBZZ |
| CLACKZZ | Factor for converting coal consumed by the transportation sector from physical units to Btu. | Million Btu per short ton | CLACKZZ is independent. |
| CLACP | Coal consumed by the transportation sector. | Thousand short tons | CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS<br>CLACPUS is independent. |
| CLCCB | Coal consumed by the commercial sector. | Billion Btu | CLCCBZZ = CLCCPZZ * CLHCKZZ<br>CLCCBUS =   CLCCBZZ |
| CLCCP | Coal consumed by the commercial sector. | Thousand short tons | CLCCP = CLHCPZZ - CLRCPZZ<br>CLCCPUS =   CLCCPZZ |

| CLEUB | Coal consumed by the electric utilities. | Billion Btu | CLEUBZZ = CLEUPZZ * CLEUKZZ<br>CLEUBUS = CLEUBZZ |
|---|---|---|---|
| CLEUKZZ | Factor for converting coal consumed by the electric utilities from physical units to Btu. | Million Btu per short ton | CLEUKZZ is independent. |
| CLEUP | Coal consumed by the electric utilities. | Thousand short tons | CLEUPZZ is independent<br>CLEUPUS = CLEUPZZ |
| CLHCKZZ | The factor for converting coal consumed by the residential and commercial sectors from physical units to Btu. | Million Btu per short ton | CLHCKZZ is independent. |
| CLHCP | Coal consumed by the residential and commercial sectors. | Thousand short tons | CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS<br>CLHCPUS is independent. |
| CLHDP | Coal distributed to the residential and commercial sectors. | Thousand short tons | CLHDPZZ is independent.<br>CLHDPUS = CLHDPZZ |
| CLICB | Coal consumed by the industrial sector. | Billion Btu | CLICBZZ = CLKCBZZ + CLOCBZZ + CLITBZZ<br>CLICBUS = CLICBZZ |
| CLICP | Coal consumed by the industrial sector. | Thousand short tons | CLICPZZ = CLKCPZZ + CLOCKZZ + CLITPZZ<br>CLICPUS = CLICPZZ |
| CLITB | Coal consumed by indepedent power producers. | Billion Btu | CLITBZZ = CLITPZZ * CLITKZZ<br>CLITBUS = CLITBZZ |
| CLITKZZ | Factor for converting coal consumed by independent power producers from physical units to Btu. | Million Btu per short ton | CLITKZZ is independent. |
| CLITP | Coal consumed by independent power producers. | Thousand short tons | CLITPZZ is independent<br>CLITPUS = CLITPZZ |
| CLKCB | Coal consumed at coke plants (coking coal). | Billion Btu | CLKCBZZ = CLKCPZZ * 26.80<br>CLKCBUS = CLKCBZZ |
| CLKCP | Coal consumed by coke plants. | Thousand short tons | CLKCPZZ = (CLKDPZZ / CLKDPUS) * CLKCPUS<br>CLKCPUS is independent. |
| CLKDP | Coal distributed to coke plants. | Thousand short tons | CLKDPZZ is independent.<br>CLKDPUS = CLKDPZZ |
| CLOCB | Coal consumed by other industrial users. | Billion Btu | CLOCBZZ = CLOCPZZ * CLOCKZZ<br>CLOCBUS = CLOCBZZ |

| | | | |
|---|---|---|---|
| CLOCKZZ | The factor for converting coal consumed by other industrial users from physical units to Btu. | Million Btu per short ton | CLOCKZZ is independent. |
| CLOCP | Coal consumed by other industrial users. | Thousand short tons | CLOCPZZ = (CLODPZZ / CLODPUS) * CLOCPUS<br>CLOCPUS is independent. |
| CLODP | Coal distributed to other industrial users. | Thousand short tons | CLODPZZ is independent.<br>CLODPUS = CLODPZZ |
| CLRCB | Coal consumed by the residential sector. | Billion Btu | CLRCBZZ = CLRCPZZ * CLHCKZZ<br>CLRCBUS = CLRCBZZ |
| CLRCP | Coal consumed by the residential sector. | Thousand short tons | CLRCPZZ = CLHCPZZ * CLRCSUS<br>CLRCPUS = CLRCPZZ |
| CLRCSUS | The share of residential and commercial coal consumed by the residential sector. | Percent | CLRCSUS is independent. |
| CLSCB | Coal consumed other than at coke plants (steam coal). | Billion Btu | CLSCBZZ = CLTCBZZ – CLKCBZZ<br>CLSCBUS = CLTCBUS – CLKCBUS |
| CLTCB | Coal total consumed. | Billion Btu | CLTCBZZ = CLRCBZZ + CLCCBZZ +<br>CLICBZZ + CLACBZZ + CLEUBZZ<br>CLTCBUS = CLTCBZZ |
| CLTCP | Coal total consumed. | Thousand short tons | CLTCPZZ = CLRCPZZ + CLCCPZZ +<br>CLICPZZ + CLACPZZ + CLEUPZZ<br>CLTCPUS = CLTCPZZ |
| COCAP | Crude oil operating capacity at refineries. | Barrels per calendar day | COCAPZZ is independent.<br>COCAPUS = COCAPZZ |
| COICB | Crude oil consumed by the industrial sector. | Billion Btu | COICBZZ = COTCBZZ<br>COICBUS = COTCBUS |
| COICP | Crude oil consumed by the industrial sector. | Thousand barrels | COICPZZ = COTCPZZ<br>COICPUS = COTCPUS |
| COTCB | Crude oil consumed in petroleum industry operations. | Billion Btu | COTCBZZ = COTCPZZ * 5.800<br>COTCBUS = COTCBZZ |
| COTCP | Crude oil consumed in petroleum industry operations. | Thousand barrels | COTCPZZ is independent.<br>COTCPUS = COTCPZZ |
| CTCAP | Catalytic cracking charge capacity of petroleum refineries. | 1960 through 1979:<br>Barrels per calendar day | CTCAPZZ is independent.<br>CTCAPUS = CTCAPZZ |

| | | 1980 forward:<br>Barrels per stream day | |
|---|---|---|---|
| DFACB | Distillate fuel consumed by the transportation sector. | Billion Btu | DFACBZZ = DFACPZZ * 5.825<br>DFACBUS =   DFACBZZ |
| DFACP | Distillate fuel consumed by the transportation sector. | Thousand barrels | DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ<br>DFACPUS =   DFACPZZ |
| DFBKP | Distillate fuel adjusted sales for vessel bunkering use, excluding that sold to the Armed Forces. | Thousand barrels | DFBKPZZ is independent.<br>DFBKPUS =   DFBKPZZ |
| DFCCB | Distillate fuel consumed by the commercial sector. | Billion Btu | DFCCBZZ = DFCCPZZ * 5.825<br>DFCCBUS =   DFCCBZZ |
| DFCCP | Distillate fuel consumed by the commercial sector. | Thousand barrels | DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ<br>DFCCPUS =   DFCCPZZ |
| DFCMP | Distillate fuel adjusted sales to the commercial sector. | Thousand barrels | DFCMPZZ is independent.<br>DFCMPUS =   DFCMPZZ |
| DFEUB | Distillate fuel consumed by the electric utilities. | Billion Btu | DFEUBZZ = DFEUPZZ * 5.825<br>DFEUBUS =   DFEUBZZ |
| DFEUP | Distillate fuel (excluding kerosene-type jet fuel) consumed by the electric utilities. | Thousand barrels | DFEUPZZ = DKEUPZZ – JKEUPZZ<br>DFEUPUS =   DFEUPZZ |
| DFIBP | Distillate fuel adjusted sales for industrial space heating and other industrial use, including farm use. | Thousand barrels | DFIBPZZ is independent.<br>DFIBPUS =   DFIBPZZ |
| DFICB | Distillate fuel consumed by the industrial sector. | Billion Btu | DFICBZZ = DFICPZZ * 5.825<br>DFICBUS =   DFICBZZ |
| DFICP | Distillate fuel consumed by the industrial sector. | Thousand barrels | DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ<br>DFICPUS =   DFICPZZ |
| DFINP | Distillate fuel adjusted sales to the industrial sector. | Thousand barrels | DFINPZZ = DFIBPZZ + DFOCPZZ +<br>            DFOFPZZ + DFOTPZZ<br>DFINPUS =   DFINPZZ |
| DFMIP | Distillate fuel adjusted sales to the Armed Forces, regardless of use. | Thousand barrels | DFMIPZZ is independent.<br>DFMIPUS =   DFMIPZZ |
| DFNCP | Distillate fuel consumption by all sectors other than the electric utility sector. | Thousand barrels | DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS<br>DFNCPUS = DFTCPUS – DFEUPUS |

| DFNDP | Distillate fuel adjusted sales to all sectors other than the electric utility sector. | Thousand barrels | DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ<br>DFNDPUS = DFNDPZZ |
| DFOCP | Distillate fuel adjusted sales for use by oil companies. | Thousand barrels | DFOCPZZ is independent.<br>DFOCPUS = DFOCPZZ |
| DFOFP | Distillate fuel adjusted sales as diesel fuel for off-highway use. | Thousand barrels | DFOFPZZ is independent.<br>DFOFPUS = DFOFPZZ |
| DFONP | Distillate fuel adjusted sales as diesel fuel for on-highway use. | Thousand barrels | DFONPZZ is independent.<br>DFONPUS = DFONPZZ |
| DFOTP | Distillate fuel adjusted sales for all other uses not identified in other adjusted sales categories. | Thousand barrels | DFOTPZZ is independent.<br>DFOTPUS = DFOTPZZ |
| DFRCB | Distillate fuel consumed by the residential sector. | Billion Btu | DFRCBZZ = DFRCPZZ * 5.825<br>DFRCBUS = DFRCBZZ |
| DFRCP | Distillate fuel consumed by the residential sector. | Thousand barrels | DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ<br>DFRCPUS = DFRCPZZ |
| DFRRP | Distillate fuel adjusted sales for use by railroads. | Thousand barrels | DFRRPZZ is independent.<br>DFRRPUS = DFRRPZZ |
| DFRSP | Distillate fuel adjusted sales to the residential sector. | Thousand barrels | DFRSPZZ is independent.<br>DFRSPUS = DFRSPZZ |
| DFTCB | Distillate fuel total consumed. | Billion Btu | DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEUBZZ<br>DFTCBUS = DFTCBZZ |
| DFTCP | Distillate fuel total consumed. | Thousand barrels | DFTCPZZ = DFNCPZZ + DFEUPZZ<br>DFTCPUS is independent. |
| DFTRP | Distillate fuel adjusted sales to the transportation sector. | Thousand barrels | DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ<br>DFTRPUS = DFTRPZZ |
| DKEUB | Distillate fuel and kerosene-type jet fuel consumed by the electric utilities. | Billion Btu | DKEUBZZ = DFEUBZZ + JKEUBZZ<br>DKEUBUS = DKEUBZZ |
| DKEUP | Distillate fuel and kerosene-type jet fuel consumed by the electric utilities. | Thousand barrels | DKEUPZZ is independent.<br>DKEUPUS = DKEUPZZ |

| ELEXB | Electricity exported from the United States (assumed to be produced from hydroelectric power through 1988). | Billion Btu | ELEXBZZ = HYEXBZZ + EXEXBZZ<br>ELEXBUS =   ELEXBZZ |
|---|---|---|---|
| ELEXP | Electricity exported from the United States (assumed to be produced from hydroelectric power through 1988). | Million kilowatthours | ELEXPZZ is independent.<br>ELEXPUS =   ELEXPZZ |
| ELIMB | Electricity imported into the United States (assumed to be produced from hydroelectric power through 1988). | Billion Btu | ELIMBZZ = HYIMBZZ + GEIMBZZ + EXIMBZZ<br>ELIMBUS =   ELIMBZZ |
| ELIMP | Electricity imported into the United States (assumed to be produced from hydroelectric power through 1988). | Million kilowatthours | ELIMPZZ is independent.<br>ELIMPUS =   ELIMPZZ |
| ELISB | Net interstate flow of electricity.  (Negative indicates flow out of State; positive indicates flow into State.) | Billion Btu | ELISBZZ = (ESTCBZZ + LOTCBZZ) – TEEUBZZ<br>ELISBUS =   ELISBZZ |
| ELISP | Net interstate flow of electricity.  (Negative indicates flow out of State; positive indicates flow into State.) | Million kilowatthours | ELISPZZ = ELISBZZ / 3.412<br>ELISPUS =   ELISPZZ |
| ELLSS48 | The ratio of electrical system energy losses to electricity sold in the contiguous 48 States and the District of Columbia. | Fraction | ELLSS48 = LOTCB48 / ESTCB48 |
| ENACB | Ethanol consumed by the transportation sector. | Billion Btu | ENACBZZ = ENACPZZ * 3.539<br>ENACBUS =   ENACBZZ |
| ENACP | Ethanol consumed by the transportation sector. | Thousand barrels | ENACPZZ = (ENTRPZZ / ENTRPUS) * ENACPUS<br>ENACPUS is independent. |
| ENTRP | Ethanol blended into motor gasoline. | Thousand gallons | ENTRPZZ is independent.<br>ENTRPUS =   ENTRPZZ |
| EREXB | Electricity produced from renewable energy sources and exported from the United States. | Billion Btu | EREXBZZ = HYEXBZZ<br>EREXBUS =   EREXBZZ |
| EREXP | Electricity produced from renewable energy sources and exported from the United States. | Million kilowatthours | EREXPZZ = HYEXPZZ<br>EREXPUS =   EREXPZZ |
| ERIMB | Electricity produced from renewable energy sources and imported into the United States. | Billion Btu | ERIMBZZ = HYIMBZZ + GEIMBZZ<br>ERIMBUS =   ERIMBZZ |

| ERIMP | Electricity produced from renewable energy sources and imported into the United States. | Million kilowatthours | $ERIMPZZ = HYIMPZZ + GEIMPZZ$<br>$ERIMPUS = ERIMPZZ$ |

ERIMP    Electricity produced from renewable energy    Million kilowatthours    ERIMPZZ = HYIMPZZ + GEIMPZZ
         sources and imported into the United States.                          ERIMPUS =   ERIMPZZ

ESACB    Electricity consumed by (i.e., sold to) the   Billion Btu             ESACBZZ = ESACPZZ * 3.412
         transportation sector.                                                ESACBUS =   ESACBZZ

ESACP    Electricity consumed by (i.e., sold to) the   Million kilowatthours   ESACPZZ = (ESTRPZZ / ESTRPUS) * ESACPUS
         transportation sector.                                                ESACPUS = ESOTPUS * ESTRSUS

ESCCB    Electricity consumed by (i.e., sold to) the   Billion Btu             ESCCBZZ = ESCCPZZ * 3.412
         commercial sector.                                                    ESCCBUS =   ESCCBZZ

ESCCP    Electricity consumed by (i.e., sold to) the   Million kilowatthours   ESCCPZZ = ESCMPZZ + ESOTPZZ – ESACPZZ
         commercial sector.                                                    ESCCPUS =   ESCCPZZ

ESCMP    Electricity sold to a portion of the commercial  Million kilowatthours  ESCMPZZ is independent.
         sector.                                                               ESCMPUS =   ESCMPZZ

ESICB    Electricity consumed by (i.e., sold to) the   Billion Btu             ESICBZZ = ESICPZZ * 3.412
         industrial sector.                                                    ESICBUS =   ESICBZZ

ESICP    Electricity consumed by (i.e., sold to) the   Million kilowatthours   ESICPZZ is independent.
         industrial sector.                                                    ESICPUS =   ESICPZZ

ESOTP    Electricity sold to the "Other" sector (i.e., public  Million kilowatthours  ESOTPZZ is independent.
         street and highway lighting, sales to other                          ESOTPUS  =   ESOTPZZ
         public authorities, railroads and railways, and
         interdepartmental sales).

ESRCB    Electricity consumed by (i.e., sold to) the   Billion Btu             ESRCBZZ = ESRCPZZ * 3.412
         residential sector.                                                   ESRCBUS =   ESRCBZZ

ESRCP    Electricity consumed by (i.e., sold to) the   Million kilowatthours   ESRCPZZ is independent.
         residential sector.                                                   ESRCPUS =   ESRCPZZ

ESTCB    Electricity total consumed (i.e., sold).      Billion Btu             ESTCBZZ = ESTCPZZ * 3.412
                                                                               ESTCBUS =   ESTCBZZ
                                                                               ESTCB48 = ESTCBUS – (ESTCBAK + ESTCBHI)

ESTCP    Electricity total consumed (i.e., sold).      Million kilowatthours   ESTCPZZ = ESRCPZZ + ESCCPZZ +
                                                                                         ESICPZZ + ESACPZZ
                                                                               ESTCPUS =   ESTCPZZ

ESTRP    Electricity consumed by transit systems.      Million kilowatthours   ESTRPZZ is independent.
                                                                               ESTRPUS =   ESTRPZZ

**A<br>P<br>P<br>E<br>N<br>D<br>I<br>X<br><br>A**

| ESTRSUS | The share of electricity sold to the "Other" sector (ESOTP) that is used for transportation. | Fraction | ESTRSUS is independent. |
|---|---|---|---|
| EXEXB | Electricity produced from nonrenewable energy sources and exported from the United States. | Billion Btu | EXEXBZZ = EXEXPZZ * FFEOKUS<br>EXEXBUS = EXEXBZZ |
| EXEXP | Electricity produced from nonrenewable energy sources and exported from the United States. | Million kilowatthours | EXEXPZZ = ELEXPZZ – EREXPZZ<br>EXEXPUS = EXEXPZZ |
| EXIMB | Electricity produced from nonrenewable energy sources and imported into the United States. | Billion Btu | EXIMBZZ = EXIMPZZ * FFEOKUS<br>EXIMBUS = EXIMBZZ |
| EXIMP | Electricity produced from nonrenewable energy sources and imported into the United States. | Million kilowatthours | EXIMPZZ = ELIMPZZ – ERIMPZZ<br>EXIMPUS = EXIMPZZ |
| EXNIB | Net imports of electricity into the United States produced from nonrenewable energy sources. | Billion Btu | EXNIBZZ = EXIMBZZ – EXEXBZZ<br>EXNIBUS = EXNIBZZ |
| EXNIP | Net imports of electricity into the United States produced from nonrenewable energy sources. | Million kilowatthours | EXNIPZZ = EXIMPZZ – EXEXPZZ<br>EXNIPUS = EXNIPZZ |
| FFEOKUS | Fossil fuel steam-electric power plant conversion factor. | Thousand Btu per kilowatthour | FFEOKUS is independent. |
| FNICB | Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector. | Billion Btu | FNICBZZ = FNTCBZZ<br>FNICBUS = FNTCBUS |
| FNICP | Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector. | Thousand barrels | FNICPZZ = FNTCPZZ<br>FNICPUS = FNTCPUS |
| FNTCB | Petrochemical feedstocks, naphtha less than 401° F, total consumed. | Billion Btu | FNTCBZZ = FNTCPZZ * 5.248<br>FNTCBUS = FNTCBZZ |
| FNTCP | Petrochemical feedstocks, naphtha less than 401° F, total consumed. | Thousand barrels | FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS<br>FNTCPUS is independent. |
| FOICB | Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector. | Billion Btu | FOICBZZ = FOTCBZZ<br>FOICBUS = FOTCBUS |
| FOICP | Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector. | Thousand barrels | FOICPZZ = FOTCPZZ<br>FOICPUS = FOTCPUS |
| FOTCB | Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed. | Billion Btu | FOTCBZZ = FOTCPZZ * 5.825<br>FOTCBUS = FOTCBZZ |

| | | | |
|---|---|---|---|
| FOTCP | Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed. | Thousand barrels | FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS<br>FOTCPUS is independent. |
| FSICB | Petrochemical feedstocks, still gas, consumed by the industrial sector. | Billion Btu | FSICBZZ = FSTCBZZ<br>FSICBUS = FSTCBUS |
| FSICP | Petrochemical feedstocks, still gas, consumed by the industrial sector. | Thousand barrels | FSICPZZ = FSTCPZZ<br>FSICPUS = FSTCPUS |
| FSTCB | Petrochemical feedstocks, still gas, total consumed. | Billion Btu | FSTCBZZ = FSTCPZZ * 6.000<br>FSTCBUS =   FSTCBZZ |
| FSTCP | Petrochemical feedstocks, still gas, total consumed. | Thousand barrels | FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS<br>FSTCPUS is independent. |
| GECCB | Direct use of geothermal energy and heat pumps in the commerical sector. | Billion Btu | GECCBZZ is independent.<br>GECCBUS =   GECCBZZ |
| GEENB | Geothermal subtotal:  electricity produced from geothermal energy at electric utilities plus imports of electricity into the United States. | Billion Btu | GEENBZZ = GEEOBZZ + GEIMBZZ<br>GEENBUS =   GEENBZZ |
| GEENP | Geothermal subtotal:  electricity produced from geothermal energy at electric utilities plus imports of electricity into the United States. | Million kilowatthours | GEENPZZ = GEEOPZZ + GEIMPZZ<br>GEENPUS =   GEENPZZ |
| GEEOB | Electricity produced from geothermal energy at electric utilities. | Billion Btu | GEEOBZZ = GEEOPZZ * GEEOKUS<br>GEEOBUS =   GEEOBZZ |
| GEEOKUS | Factor for converting electricity produced from geothermal energy from physical units to Btu. | Thousand Btu per kilowatthour | GEEOKUS is independent. |
| GEEOP | Electricity produced from geothermal energy at electric utilities. | Million kilowatthours | GEEOPZZ is independent.<br>GEEOPUS =   GEEOPZZ |
| GEICB | Geothermal energy used in the indusrial sector. | Billion Btu | GEICBZZ = GEINBZZ + GENGBZZ<br>GEICBUS =   GEICBZZ |
| GEIMB | Electricity produced from geothermal energy and imported into the United States. | Billion Btu | GEIMBZZ = GEIMPZZ * GEEOKUS<br>GEIMBUS =   GEIMBZZ |
| GEIMP | Electricity produced from geothermal energy and imported into the United States. | Million kilowatthours | GEIMPZZ is independent.<br>GEIMPUS =   GEIMPZZ |

| | | | |
|---|---|---|---|
| GEINB | Direct use of geothermal energy and heat pumps in the industrial sector. | Billion Btu | GEINBZZ  is independent.<br>GEINBUS =   GEINBZZ |
| GENGB | Electricity produced from geothermal energy by nonutility power producers. | Billion Btu | GENGBZZ = GENGPZZ * GEEOKUS<br>GENGBUS =   GENGBZZ |
| GENGP | Electricity produced from geothermal energy by nonutility power producers. | Million kilowatthours | GENGPZZ is independent.<br>GENGPUS =   GENGPZZ |
| GERCB | Direct use of geothermal energy and heat pumps in the residential sector. | Billion Btu | GERCBZZ is independent.<br>GERCBUS =   GERCBZZ |
| GETCB | Geothermal total energy consumed (including imports of geothermal-based electricity). | Billion Btu | GETCBZZ = GERCBZZ + GECCBZZ +<br>          GEICBZZ + GEENBZZ<br>GETCBUS =   GETCBZZ |
| GOICB | Electricity produced from geothermal, wind, nuclear, photovoltaic, and solar thermal energy sources in the industrial sector. | Billion Btu | GOICBZZ = GEICBZZ + SOICBZZ + WYICBZZ +<br>          NUATBZZ<br>GOICBUS =   GOICBZZ |
| GOTCB | Electricity produced from geothermal, wind, photovoltaic, and solar thermal energy sources; total produced. | Billion Btu | GOTCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ<br>GOTCBUS =   GOTCBZZ |
| HPATB | Electricity produced from pumped storage hydroelectric power by nonutility power producers. | Billion Btu | HPATBZZ = HPATPZZ * FFEOKUS.<br>HPATBUS =   HPATBZZ |
| HPATP | Electricity produced from pumped storage hydroelectric power by nonutility power producers. | Million kilowatthours | HPATPZZ is independent.<br>HPATPUS =   HPATPZZ |
| HPEOB | Electricity produced from pumped storage hydroelectric power at electric utilities. | Billion Btu | HPEOBZZ = HPEOPZZ * FFEOKUS<br>HPEOBUS =   HPEOBZZ |
| HPEOP | Electricity produced from pumped storage hydroelectric power at electric utilities. | Million kilowatthours | HPEOPZZ is independent.<br>HPEOPUS =   HPEOPZZ |
| HVATB | Electricity produced from conventional hydropower by nonutility power producers. | Billion Btu | HVATBZZ = HVATPZZ * FFEOKUS<br>HVATBUS =   HVATBZZ |
| HVATP | Electricity produced from conventional hydropower by nonutility power producers. | Million kilowatthours | HVATPZZ is independent.<br>HVATPUS =   HVATPZZ |
| HVENB | Renewable hydroelectric subtotal: electricity produced from conventional hydropower at electric utilities plus net imports of electricity into the United States. | Billion Btu | HVENBZZ = HVEOBZZ + HYIMBZZ – HYEXBZZ<br>HVENBUS =   HVENBZZ |

| HVENP | Renewable hydroelectric subtotal: electricity produced from conventional hydropower at electric utilities plus net imports of electricity into the United States. | Million kilowatthours | HVENPZZ = HVEOPZZ + HYIMPZZ – HYEXPZZ<br>HVENPUS =   HVENPZZ |
|---|---|---|---|
| HVEOB | Electricity produced from conventional hydropower at electric utilities. | Billion Btu | HVEOBZZ = HVEOPZZ * FFEOKUS<br>HVEOBUS =   HVEOBZZ |
| HVEOP | Electricity produced from conventional hydropower at electric utilities. | Million kilowatthours | HVEOPZZ is independent.<br>HVEOPUS =   HVEOPZZ |
| HYATB | Electricity produced from all types of hydropower by nonutility power producers. | Billion Btu | HYATBZZ = HPATBZZ + HVATBZZ<br>HYATBUS =   HYATBZZ |
| HYATP | Electricity produced from all types of hydropower by nonutility power producers. | Million kilowatthours | HYATPZZ = HPATPZZ + HVATPZZ<br>HYATPUS =   HYATPZZ |
| HYENB | Electricity produced from all types of hydropower at electric utilities plus net imports of electricity into the United States. | Billion Btu | HYENBZZ = HYEOBZZ + HYIMBZZ – HYEXBZZ<br>HYENBUS =   HYENBZZ |
| HYENP | Electricity produced from all types of hydropower at electric utilities plus net imports of electricity into the United States. | Million kilowatthours | HYENPZZ = HYEOPZZ + HYIMPZZ – HYEXPZZ<br>HYENPUS =   HYENPZZ |
| HYEOB | Electricity produced from all types of hydropower at electric utilities. | Billion Btu | HYEOBZZ = HPEOBZZ + HVEOBZZ<br>HYEOBUS =   HYEOBZZ |
| HYEOP | Electricity produced from all types of hydropower at electric utilities. | Million kilowatthours | HYEOPZZ = HPEOPZZ + HVEOPZZ<br>HYEOPUS =   HYEOPZZ |
| HYEXB | Electricity produced from hydroelectric power and exported from the United States. | Billion Btu | HYEXBZZ = HYEXPZZ * FFEOKUS<br>HYEXBUS =   HYEXBZZ |
| HYEXP | Electricity produced from hydroelectric power and exported from the United States. | Million kilowatthours | HYEXPZZ is independent.<br>HYEXPUS =   HYEXPZZ |
| HYIMB | Electricity produced from hydroelectric power and imported into the United States. | Billion Btu | HYIMBZZ = HYIMPZZ * FFEOKUS<br>HYIMBUS =   HYIMBZZ |
| HYIMP | Electricity produced from hydroelectric power and imported into the United States. | Million kilowatthours | HYIMPZZ is independent.<br>HYIMPUS =   HYIMPZZ |
| HYTCB | Electricity produced from hydropower at electric utilities (including net imports of electricity) and by nonutility power producers. | Billion Btu | HYTCBZZ = HYENBZZ + HYATBZZ<br>HYTCBUS =   HYTCBZZ |

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| HYTCP | Electricity produced from hydropower at electric utilities (including net imports of electricity) and by nonutility power producers. | Million kilowatthours | HYTCPZZ = HYENPZZ + HYATPZZ<br>HYTCPUS =   HYTCPZZ |
| JFACB | Jet fuel consumed by the transportation sector. | Billion Btu | JFACBZZ = JKACBZZ + JNACBZZ<br>JFACBUS =   JFACBZZ |
| JFACP | Jet fuel consumed by the transportation sector. | Thousand barrels | JFACPZZ = JKACPZZ + JNACPZZ<br>JFACPUS =   JFACPZZ |
| JFEUB | Jet fuel consumed by electric utilities. | Billion Btu | JFEUBZZ = JKEUBZZ<br>JFEUBUS = JKEUBUS |
| JFEUP | Jet fuel consumed by electric utilities. | Thousand barrels | JFEUPZZ = JKEUPZZ<br>JFEUPUS = JKEUPUS |
| JFTCB | Jet fuel total consumed. | Billion Btu | JFTCBZZ = JFACBZZ + JFEUBZZ<br>JFTCBUS =   JFTCBZZ |
| JFTCP | Jet fuel total consumed. | Thousand barrels | JFTCPZZ = JFACPZZ + JFEUPZZ<br>JFTCPUS =   JFTCPZZ |
| JKACB | Kerosene-type jet fuel consumed by the transportation sector. | Billion Btu | JKACBZZ = JKACPZZ * 5.670<br>JKACBUS =   JKACBZZ |
| JKACP | Kerosene-type jet fuel consumed by the transportation sector. | Thousand barrels | JKACPZZ = (JKTTPZZ / JKTTPUS) * JKACPUS<br>JKACPUS = JKTCPUS – JKEUPUS |
| JKEUB | Kerosene-type jet fuel consumed by electric utilities. | Billion Btu | JKEUBZZ = JKEUPZZ * 5.670<br>JKEUBUS =   JKEUBZZ |
| JKEUP | Kerosene-type jet fuel consumed by electric utilities. | Thousand barrels | JKEUPZZ is independent.<br>JKEUPUS =   JKEUPZZ |
| JKTCB | Kerosene-type jet fuel total consumed. | Billion Btu | JKTCBZZ = JKTCPZZ * 5.670<br>JKTCBUS =   JKTCBZZ |
| JKTCP | Kerosene-type jet fuel total consumed. | Thousand barrels | JKTCPZZ = JKACPZZ + JKEUPZZ<br>JKTCPUS is independent. |
| JKTTP | Kerosene-type jet fuel total sold. | Thousand gallons | JKTTPZZ is independent.<br>JKTTPUS =   JKTTPZZ |
| JNACB | Naphtha-type jet fuel consumed by the transportation sector. | Billion Btu | JNACBZZ = JNTCBZZ<br>JNACBUS = JNTCBUS |

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| JNACP | Naphtha-type jet fuel consumed by the transportation sector. | Thousand barrels | JNACPZZ = JNTCPZZ<br>JNACPUS = JNTCPUS |
| JNMIP | Naphtha-type jet fuel issued to the military. | Thousand barrels | JNMIPZZ is independent.<br>JNMIPUS =   JNMIPZZ |
| JNTCB | Naphtha-type jet fuel total consumed. | Billion Btu | JNTCBZZ = JNTCPZZ * 5.355<br>JNTCBUS =   JNTCBZZ |
| JNTCP | Naphtha-type jet fuel total consumed. | Thousand barrels | JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS<br>JNTCPUS is independent. |
| KSCCB | Kerosene consumed by the commercial sector. | Billion Btu | KSCCBZZ = KSCCPZZ * 5.670<br>KSCCBUS =   KSCCBZZ |
| KSCCP | Kerosene consumed by the commercial sector. | Thousand barrels | KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ<br>KSCCPUS =   KSCCPZZ |
| KSCMP | Kerosene sold to the commercial sector. | Thousand barrels | KSCMPZZ is independent.<br>KSCMPUS =   KSCMPZZ |
| KSICB | Kerosene consumed by the industrial sector. | Billion Btu | KSICBZZ = KSICPZZ * 5.670<br>KSICBUS =   KSICBZZ |
| KSICP | Kerosene consumed by the industrial sector. | Thousand barrels | KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ<br>KSICPUS =   KSICPZZ |
| KSIHP | Kerosene sold for industrial heating. | Thousand barrels | KSIHPZZ is independent.<br>KSIHPUS =   KSIHPZZ |
| KSINP | Kerosene sold to the industrial sector. | Thousand barrels | KSINPZZ = KSOTPZZ + KSIHPZZ<br>KSINPUS =   KSINPZZ |
| KSOTP | Kerosene sold for all other uses, including farm use. | Thousand barrels | KSOTPZZ is independent.<br>KSOTPUS =   KSOTPZZ |
| KSRCB | Kerosene consumed by the residential sector. | Billion Btu | KSRCBZZ = KSRCPZZ * 5.670<br>KSRCBUS =   KSRCBZZ |
| KSRCP | Kerosene consumed by the residential sector. | Thousand barrels | KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ<br>KSRCPUS =   KSRCPZZ |
| KSRSP | Kerosene sold to the residential sector. | Thousand barrels | KSRSPZZ is independent.<br>KSRSPUS =   KSRSPZZ |

| KSTCB | Kerosene total consumed. | Billion Btu | KSTCBZZ = KSRCBZZ + KSICBZZ + KSCCBZZ<br>KSTCBUS =   KSTCBZZ |
|---|---|---|---|
| KSTCP | Kerosene total consumed. | Thousand barrels | KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS<br>KSTCPUS is independent. |
| KSTTP | Kerosene total sold. | Thousand barrels | KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ<br>KSTTPUS =   KSTTPZZ |
| LGACB | LPG consumed by the transportation sector. | Billion Btu | LGACBZZ = LGACPZZ * LGTCKUS<br>LGACBUS =   LGACBZZ |
| LGACP | LPG consumed by the transportation sector. | Thousand barrels | LGACPZZ = LGCBPZZ * LGTRSUS<br>LGACPUS =   LGACPZZ |
| LGCBM | LPG sales for internal combustion engine use. | Thousand gallons | LGCBMZZ is independent.<br>LGCBMUS =   LGCBMZZ |
| LGCBP | LPG consumed for internal combustion engine use. | Thousand barrels | LGCBPZZ = LGCBMZZ / 42<br>LGCBPUS =   LGCBPZZ |
| LGCCB | LPG consumed by the commercial sector. | Billion Btu | LGCCBZZ = LGCCPZZ * LGTCKUS<br>LGCCBUS =   LGCCBZZ |
| LGCCP | LPG consumed by the commercial sector. | Thousand barrels | LGCCPZZ = LGHCPZZ * 0.15<br>LGCCPUS =   LGCCPZZ |
| LGHCM | LPG sold for residential and commercial use. | Thousand gallons | LGHCMZZ is independent.<br>LGHCMUS =   LGHCMZZ |
| LGHCP | LPG consumed by the residential and commercial sectors. | Thousand barrels | LGHCPZZ = LGHCMZZ / 42<br>LGHCPUS =   LGHCPZZ |
| LGICB | LPG consumed by the industrial sector. | Billion Btu | LGICBZZ = LGICPZZ * LGTCKUS<br>LGICBUS =   LGICBZZ |
| LGICP | LPG consumed by the industrial sector. | Thousand barrels | LGICPZZ = LGTCPZZ – (LGRCPZZ +<br>               LGCCPZZ + LGACPZZ)<br>LGICPUS =   LGICPZZ |
| LGRCB | LPG consumed by the residential sector. | Billion Btu | LGRCBZZ = LGRCPZZ * LGTCKUS<br>LGRCBUS =   LGRCBZZ |
| LGRCP | LPG consumed by the residential sector. | Thousand barrels | LGRCPZZ = LGHCPZZ * 0.85<br>LGRCPUS =   LGRCPZZ |

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| LGTCB | LPG total consumed. | Billion Btu | LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ<br>LGTCBUS =  LGTCBZZ |
| LGTCKUS | Factor for converting LPG from physical units to Btu. | Million Btu per barrel | LGTCKUS is independent. |
| LGTCP | LPG total consumed. | Thousand barrels | LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS<br>LGTCPUS is independent. |
| LGTRSUS | The transportation sector's share of LPG internal combustion engine sales. | Fraction | LGTRSUS is independent. |
| LGTTP | LPG total sold. | Thousand gallons | LGTTPZZ is independent.<br>LGTTPUS =  LGTTPZZ |
| LOACB | The transportation sector's share of electrical system energy losses. | Billion Btu | LOACBZZ = ESACBZZ * ELLSS48<br>Exceptions:<br>LOACBAK = (ESACBAK / ESTCBAK) * LOTCBAK<br>LOACBHI = (ESACBHI / ESTCBHI) * LOTCBHI<br>LOACBUS =  LOACBZZ |
| LOACP | The transportation sector's share of electrical system energy losses. | Million kilowatthours | LOACPZZ = LOACBZZ / 3.412<br>LOACPUS = LOACBUS / 3.412 |
| LOCCB | The commercial sector's share of electrical system energy losses. | Billion Btu | LOCCBZZ = ESCCBZZ * ELLSS48<br>Exceptions:<br>LOCCBAK = (ESCCBAK / ESTCBAK) * LOTCBAK<br>LOCCBHI = (ESCCBHI / ESTCBHI) * LOTCBHI<br>LOCCBUS =  LOCCBZZ |
| LOCCP | The commercial sector's share of electrical system energy losses. | Million kilowatthours | LOCCPZZ = LOCCBZZ / 3.412<br>LOCCPUS = LOCCBUS / 3.412 |
| LOICB | The industrial sector's share of electrical system energy losses. | Billion Btu | LOICBZZ = ESICBZZ * ELLSS48<br>Exceptions:<br>LOICBAK = (ESICBAK / ESTCBAK) * LOTCBAK<br>LOICBHI = (ESICBHI / ESTCBHI) * LOTCBHI<br>LOICBUS =  LOICBZZ |
| LOICP | The industrial sector's share of electrical system energy losses. | Million kilowatthours | LOICPZZ = LOICBZZ / 3.412<br>LOICPUS = LOICBUS / 3.412 |
| LORCB | The residential sector's share of electrical system energy losses. | Billion Btu | LORCBZZ = ESRCBZZ * ELLSS48<br>Exceptions:<br>LORCBAK = (ESRCBAK / ESTCBAK) * LOTCBAK |

$$LORCBHI = (ESRCBHI / ESTCBHI) * LOTCBHI$$
$$LORCBUS = \ LORCBZZ$$

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| LORCP | The residential sector's share of electrical system energy losses. | Million kilowatthours | LORCPZZ = LORCBZZ / 3.412 <br> LORCPUS = LORCBUS / 3.412 |
| LOTCB | Total electrical system energy losses. | Billion Btu | LOTCBZZ = ESTCBZZ * ELLSS48 <br>  Exceptions: <br>  LOTCBAK = TEEUBAK – ESTCBAK <br>  LOTCBHI = TEEUBHI – ESTCBHI <br> LOTCBUS = TEEUBUS – ESTCBUS <br> LOTCB48 = LOTCBUS – (LOTCBAK + LOTCBHI) |
| LOTCP | Total electrical system energy losses. | Million kilowatthours | LOTCPZZ = LOTCBZZ / 3.412 <br> LOTCPUS = LOTCBUS / 3.412 |
| LUACB | Lubricants consumed by the transportation sector. | Billion Btu | LUACBZZ = LUACPZZ * 6.065 <br> LUACBUS = \ LUACBZZ |
| LUACP | Lubricants consumed by the transportation sector. | Thousand barrels | LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ <br> LUACPUS = \ LUACPZZ |
| LUICB | Lubricants consumed by the industrial sector. | Billion Btu | LUICBZZ = LUICPZZ * 6.065 <br> LUICBUS = \ LUICBZZ |
| LUICP | Lubricants consumed by the industrial sector. | Thousand barrels | LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ <br> LUICPUS = \ LUICPZZ |
| LUINP | Lubricants sold to the industrial sector. | Thousand barrels | LUINPZZ is independent. <br> LUINPUS = \ LUINPZZ |
| LUTCB | Lubricants total consumed. | Billion Btu | LUTCBZZ = LUICBZZ + LUACBZZ <br> LUTCBUS = \ LUTCBZZ |
| LUTCP | Lubricants total consumed. | Thousand barrels | LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS <br> LUTCPUS is independent. |
| LUTRP | Lubricants sold to the transportation sector. | Thousand barrels | LUTRPZZ is independent. <br> LUTRPUS = \ LUTRPZZ |
| LUTTP | Lubricants total sold. | Thousand barrels | LUTTPZZ = LUINPZZ + LUTRPZZ <br> LUTTPUS = \ LUTTPZZ |
| MBICB | Motor gasoline blending components consumed by the industrial sector. | Billion Btu | MBICBZZ = MBTCBZZ <br> MBICBUS = MBTCBUS |

| MBICP | Motor gasoline blending components consumed by the industrial sector. | Thousand barrels | MBICPZZ = MBTCPZZ<br>MBICPUS = MBTCPUS |
|---|---|---|---|
| MBTCB | Motor gasoline blending components total consumed. | Billion Btu | MBTCBZZ = MBTCPZZ * 5.253<br>MBTCBUS = MBTCBZZ |
| MBTCP | Motor gasoline blending components total consumed. | Thousand barrels | MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS<br>MBTCPUS is independent. |
| MGACB | Motor gasoline consumed by the transportation sector. | Billion Btu | MGACBZZ = MGACPZZ * 5.253<br>MGACBUS = MGACBZZ |
| MGACP | Motor gasoline consumed by the transportation sector. | Thousand barrels | MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ<br>MGACPUS = MGACPZZ |
| MGAGP | Motor gasoline sold for agricultural use. | Thousand gallons | MGAGPZZ is independent.<br>MGAGPUS = MGAGPZZ |
| MGCCB | Motor gasoline consumed by the commercial sector. | Billion Btu | MGCCBZZ = MGCCPZZ * 5.253<br>MGCCBUS = MGCCBZZ |
| MGCCP | Motor gasoline consumed by the commercial sector. | Thousand barrels | MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ<br>MGCCPUS = MGCCPZZ |
| MGCMP | Motor gasoline sold to the commercial sector. | Thousand gallons | MGCMPZZ = MGMSPZZ + MGPNPZZ<br>MGCMPUS = MGCMPZZ |
| MGCUP | Motor gasoline sold for construction use. | Thousand gallons | MGCUPZZ is independent.<br>MGCUPUS = MGCUPZZ |
| MGICB | Motor gasoline consumed by the industrial sector. | Billion Btu | MGICBZZ = MGICPZZ * 5.253<br>MGICBUS = MGICBZZ |
| MGICP | Motor gasoline consumed by the industrial sector. | Thousand barrels | MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ<br>MGICPUS = MGICPZZ |
| MGINP | Motor gasoline sold to the industrial sector. | Thousand gallons | MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ<br>MGINPUS = MGINPZZ |
| MGIYP | Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology). | Thousand gallons | MGIYPZZ is independent<br>MGIYPUS = MGIYPZZ |
| MGMFP | Motor gasoline sold for highway use. | Thousand gallons | MGMFPZZ is independent.<br>MGMFPUS = MGMFPZZ |

| MGMRP | Motor gasoline sold for marine use. | Thousand gallons | MGMRPZZ is independent.<br>MGMRPUS = MGMRPZZ |
| MGMSP | Motor gasoline sold for miscellaneous and unclassified uses. | Thousand gallons | MGMSPZZ is independent.<br>MGMSPUS = MGMSPZZ |
| MGPNP | Motor gasoline sold for public nonhighway use. | Thousand gallons | MGPNPZZ is independent.<br>MGPNPUS = MGPNPZZ |
| MGSFP | Motor gasoline special fuels sold (primarily diesel fuel with small amounts of liquefied petroleum gases). | Thousand gallons | MGSFPZZ is independent.<br>MGSFPUS = MGSFPZZ |
| MGTCB | Motor gasoline total consumed. | Billion Btu | MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ<br>MGTCBUS = MGTCBZZ |
| MGTCP | Motor gasoline total consumed. | Thousand barrels | MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPUS<br>MGTCPUS is independent. |
| MGTRP | Motor gasoline sold to the transportation sector. | Thousand gallons | MGTRPZZ = MGMFPZZ + MGMRPZZ – MGSFPZZ<br>MGTRPUS = MGTRPZZ |
| MGTTP | Motor gasoline total sold. | Thousand gallons | MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ<br>MGTTPUS = MGTTPZZ |
| MSICB | Miscellaneous petroleum products consumed by the industrial sector. | Billion Btu | MSICBZZ = MSTCBZZ<br>MSICBUS = MSTCBUS |
| MSICP | Miscellaneous petroleum products consumed by the industrial sector. | Thousand barrels | MSICPZZ = MSTCPZZ<br>MSICPUS = MSTCPUS |
| MSTCB | Miscellaneous petroleum products total consumed. | Billion Btu | MSTCBZZ = MSTCPZZ * 5.796<br>MSTCBUS = MSTCBZZ |
| MSTCP | Miscellaneous petroleum products total consumed. | Thousand barrels | MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS<br>MSTCPUS is independent. |
| NAICB | Natural gasoline consumed by the industrial sector. | Billion Btu | NAICBZZ = NATCBZZ<br>NAICBUS = NATCBUS |
| NAICP | Natural gasoline consumed by the industrial sector. | Thousand barrels | NAICPZZ = NATCPZZ<br>NAICPUS = NATCPUS |
| NATCB | Natural gasoline total consumed. | Billion Btu | NATCBZZ = NATCPZZ * 4.620<br>NATCBUS = NATCBZZ |

| NATCP | Natural gasoline total consumed. | Thousand barrels | NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS<br>NATCPUS is independent. |
|---|---|---|---|
| NGACB | Natural gas consumed by the transportation sector. | Billion Btu | NGACBZZ = NGACPZZ * NGNUKZZ<br>NGACBUS = NGACBZZ |
| NGACP | Natural gas consumed by the transportation sector. | Million cubic feet | NGACPZZ = NGPZPZZ + NGVHPZZ<br>NGACPUS = NGACPZZ |
| NGCCB | Natural gas delivered to the commercial sector, used as consumption. | Billion Btu | NGCCBZZ = NGCCPZZ * NGNUKZZ<br>NGCCBUS = NGCCBZZ |
| NGCCP | Natural gas delivered to the commercial sector, used as consumption. | Million cubic feet | NGCCPZZ is independent.<br>NGCCPUS = NGCCPZZ |
| NGEUB | Natural gas consumed by the electric utilities. | Billion Btu | NGEUBZZ = NGEUPZZ * NGEUKZZ<br>NGEUBUS = NGEUBZZ |
| NGEUK | Factor for converting natural gas consumed by the electric utilities from physical units to Btu. | Thousand Btu per cubic foot | NGEUKZZ is independent.<br>NGEUKUS = NGEUBUS / NGEUPUS |
| NGEUP | Natural gas consumed by the electric utilities. | Million cubic feet | NGEUPZZ is independent.<br>NGEUPUS = NGEUPZZ |
| NGICB | Natural gas consumed by the industrial sector. | Billion Btu | NGICBZZ = NGICPZZ * NGNUKZZ<br>NGICBUS = NGICBZZ |
| NGICP | Natural gas consumed by the industrial sector. | Million cubic feet | NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ<br>NGICPUS = NGICPZZ |
| NGINP | A portion of the natural gas delivered to the industrial sector. | Million cubic feet | NGINPZZ is independent.<br>NGINPUS = NGINPZZ |
| NGLPB | Natural gas consumed as lease and plant fuel. | Billion Btu | NGLPBZZ = NGLPPZZ * NGNUKZZ<br>NGLPBUS = NGLPBZZ |
| NGLPP | Natural gas consumed as lease and plant fuel. | Million cubic feet | NGLPPZZ = NGLEPZZ + NGPLPZZ<br>NGLPPUS = NGLPPZZ |
| NGLEP | Natural gas consumed as lease fuel. | Million cubic feet | NGLEPZZ is independent.<br>NGLEPUS = NGLEPZZ |
| NGNUK | Factor for converting natural gas consumed by all sectors other than the electric utility sector from physical units to Btu. | Thousand Btu per cubic foot | NGNUKZZ = (NGTCBZZ – NGEUBZZ) /<br>            (NGTCPZZ – NGEUPZZ)<br>NGNUKUS = (NGTCBUS – NGEUBUS) /<br>            (NGTCPUS – NGEUPUS) |

| NGPLP | Natural gas consumed as plant fuel. | Million cubic feet | NGPLPZZ is independent.<br>NGPLPUS = NGPLPZZ |
|---|---|---|---|
| NGPZB | Natural gas consumed as pipeline fuel. | Billion Btu | NGPZBZZ = NGPZPZZ * NGNUKZZ<br>NGPZBUS = NGPZBZZ |
| NGPZP | Natural gas consumed as pipeline fuel. | Million cubic feet | NGPZPZZ is independent.<br>NGPZPUS = NGPZPZZ |
| NGRCB | Natural gas delivered to the residential sector, used as consumption. | Billion Btu | NGRCBZZ = NGRCPZZ * NGNUKZZ<br>NGRCBUS = NGRCBZZ |
| NGRCP | Natural gas delivered to the residential sector, used as consumption. | Million cubic feet | NGRCPZZ is independent.<br>NGRCPUS = NGRCPZZ |
| NGTCB | Natural gas total consumed. | Billion Btu | NGTCBZZ = NGTCPZZ * NGTCKZZ<br>NGTCBUS = NGTCBZZ |
| NGTCK | Factor for converting natural gas total consumed from physical units to Btu. | Thousand Btu per cubic foot | NGTCKZZ is independent.<br>NGTCKUS = NGTCBUS / NGTCPUS |
| NGTCP | Natural gas total consumed. | Million cubic feet | NGTCPZZ = NGRCPZZ + NGCCPZZ +<br>NGICPZZ + NGACPZZ + NGEUPZZ<br>NGTCPUS = NGTCPZZ |
| NGVHB | Natural gas consumed as vehicle fuel. | Billion Btu | NGVHBZZ = NGVHPZZ * NGNUKZZ<br>NGVHBUS = NGVHBZZ |
| NGVHP | Natural gas consumed as vehicle fuel. | Million cubic feet | NGVHPZZ is independent.<br>NGVHPUS = NGVHPZZ |
| NUATB | Electricity produced from nuclear power by nonutility power producers. | Billion Btu | NUATBZZ = NUATPZZ * NUEOKUS<br>NUATBUS = NUATBZZ |
| NUATP | Electricity produced from nuclear power by nonutility power producers. | Million kilowatthours | NUATPZZ is independent.<br>NUATPUS = NUATPZZ |
| NUEOB | Electricity produced from nuclear power at electric utilities. | Billion Btu | NUEOBZZ = NUEOPZZ * NUEOKUS<br>NUEOBUS = NUEOBZZ |
| NUEOKUS | Factor for converting electricity produced from nuclear power from physical units to Btu. | Thousand Btu per kilowatthour | NUEOKUS is independent. |
| NUEOP | Electricity produced from nuclear power at electric utilities. | Million kilowatthours | NUEOPZZ is independent.<br>NUEOPUS = NUEOPZZ |

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| NUETB | Electricity total produced from nuclear power. | Billion Btu | NUETBZZ = NUEOBZZ + NUATBZZ<br>NUETBUS =   NUETBZZ |
| NUETP | Electricity total produced from nuclear power. | Million kilowatthours | NUETPZZ = NUEOPZZ + NUATPZZ<br>NUETPUS =   NUETPZZ |
| OCVAV | Value added in manufacture of industrial organic chemicals. | Million dollars | OCVAVZZ is independent.<br>OCVAVUS =   OCVAVZZ |
| PAACB | All petroleum products consumed by the transportation sector. | Billion Btu | PAACBZZ = AVACBZZ + DFACBZZ +<br>  JKACBZZ + JNACBZZ + LGACBZZ +<br>  LUACBZZ + MGACBZZ + RFACBZZ<br>PAACBUS =   PAACBZZ |
| PAACKUS | Factor for converting all petroleum products consumed by the transportation sector from physical units to Btu. | Million Btu per barrel | PAACKUS = PAACBUS / PAACPUS |
| PAACP | All petroleum products consumed by the transportation sector. | Thousand barrels | PAACPZZ = AVACPZZ + DFACPZZ +<br>  JKACPZZ + JNACPZZ + LGACPZZ +<br>  LUACPZZ + MGACPZZ + RFACPZZ<br>PAACPUS =   PAACPZZ |
| PACCB | All petroleum products consumed by the commercial sector. | Billion Btu | PACCBZZ = DFCCBZZ + KSCCBZZ +<br>  LGCCBZZ + MGCCBZZ + RFCCBZZ<br>PACCBUS =   PACCBZZ |
| PACCKUS | Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu. | Million Btu per barrel | PACCKUS = PACCBUS / PACCPUS |
| PACCP | All petroleum products consumed by the commercial sector. | Thousand barrels | PACCPZZ = DFCCPZZ + KSCCPZZ +<br>  LGCCPZZ + MGCCPZZ + RFCCPZZ<br>PACCPUS =   PACCPZZ |
| PAEUB | All petroleum products consumed by the electric utilities. | Billion Btu | PAEUBZZ = DFEUBZZ + JKEUBZZ +<br>  PCEUBZZ + RFEUBZZ<br>PAEUBUS =   PAEUBZZ |
| PAEUKUS | Factor for converting all petroleum products consumed by the electric utilities from physical units to Btu. | Million Btu per barrel | PAEUKUS = PAEUBUS / PAEUPUS |
| PAEUP | All petroleum products consumed by the electric utilities. | Thousand barrels | PAEUPZZ = DFEUPZZ + JKEUPZZ +<br>  PCEUPZZ + RFEUPZZ<br>PAEUPUS =   PAEUPZZ |

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| PAHCBUS | All petroleum products consumed by the residential and commercial sectors combined. | Billion Btu | PAHCBUS = PARCBUS + PACCBUS |
| PAHCKUS | Factor for converting all petroleum products consumed by the residential and commercial sectors combined from physical units to Btu. | Million Btu per barrel | PAHCKUS = PAHCBUS / PAHCPUS |
| PAHCPUS | All petroleum products consumed by the residential and commercial sectors combined. | Thousand barrels | PAHCPUS = PARCPUS + PACCPUS |
| PAICB | All petroleum products consumed by the industrial sector. | Billion Btu | PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ<br>PAICBUS = PAICBZZ |
| PAICKUS | Factor for converting all petroleum products consumed by the industrial sector from physical units to Btu. | Million Btu per barrel | PAICKUS = PAICBUS / PAICPUS |
| PAICP | All petroleum products consumed by the industrial sector. | Thousand barrels | PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ<br>PAICPUS = PAICPZZ |
| PARCB | All petroleum products consumed by the residential sector. | Billion Btu | PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ<br>PARCBUS = PARCBZZ |
| PARCKUS | Factor for converting all petroleum products consumed by the residential sector from physical units to Btu. | Million Btu per barrel | PARCKUS = PARCBUS / PARCPUS |
| PARCP | All petroleum products consumed by the residential sector. | Thousand barrels | PARCPZZ = DFRCPZZ + KSRCPZZ + LGRCPZZ<br>PARCPUS = PARCPZZ |
| PATCB | All petroleum products consumed by all sectors. | Billion Btu | PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ<br>PATCBUS = PATCBZZ |
| PATCKUS | Factor for converting all petroleum products consumed by all sectors from physical units to Btu. | Million Btu per barrel | PATCKUS = PATCBUS / PATCPUS |
| PATCP | All petroleum products consumed by all sectors. | Thousand barrels | PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JKTCPZZ + JNTCPZZ + |

$$\text{KSTCPZZ + LGTCPZZ + LUTCPZZ +}$$
$$\text{MGTCPZZ + RFTCPZZ + POTCPZZ}$$
$$\text{PATCPUS} = \text{PATCPZZ}$$

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| PCEUB | Petroleum coke consumed by the electric utilities. | Billion Btu | PCEUBZZ = PCEUPZZ * 6.024<br>PCEUBUS = PCEUBZZ |
| PCEUM | Petroleum coke consumed by the electric utilities. | Thousand tons | PCEUMZZ is independent.<br>PCEUMUS = PCEUMZZ |
| PCEUP | Petroleum coke consumed by the electric utilities. | Thousand barrels | PCEUPZZ = PCEUMZZ * 5<br>PCEUPUS = PCEUPZZ |
| PCICB | Petroleum coke consumed by the industrial sector. | Billion Btu | PCICBZZ = PCICPZZ * 6.024<br>PCICBUS = PCICBZZ |
| PCICP | Petroleum coke consumed by the industrial sector. | Thousand barrels | PCICPZZ = PCRFPZZ + PCOCPZZ<br>PCICPUS = PCTCPUS – PCEUPUS |
| PCOCB | Industrial use of petroleum coke other than that used for catalytic cracking. | Billion Btu | PCOCBZZ = PCOCPZZ * 6.024<br>PCOCBUS = PCOCBZZ |
| PCOCP | Industrial use of petroleum coke other than that used for catalytic cracking. | Thousand barrels | PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS<br>PCOCPUS = PCICPUS – PCRFPUS |
| PCRFB | Petroleum coke used at refineries as both catalytic and marketable coke. | Billion Btu | PCRFBZZ = PCRFPZZ * 6.024<br>PCRFBUS = PCRFBZZ |
| PCRFP | Petroleum coke used at refineries as both catalytic and marketable coke. | Thousand barrels | PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ or<br>(CTCAPZZ / CTCAPPZ) * PCRFPPZ or<br>is independent.<br>PCRFPUS is independent. |
| PCTCB | Petroleum coke total consumed. | Billion Btu | PCTCBZZ = PCICBZZ + PCEUBZZ<br>PCTCBUS = PCTCBZZ |
| PCTCP | Petroleum coke total consumed. | Thousand barrels | PCTCPZZ = PCICPZZ + PCEUPZZ<br>PCTCPUS is independent. |
| PIVAV | Value added in the manufacture of paints and allied products. | Million dollars | PIVAVZZ is independent.<br>PIVAVUS = PIVAVZZ |
| PLICB | Plant condensate consumed by the industrial sector. | Billion Btu | PLICBZZ = PLTCBZZ<br>PLICBUS = PLTCBUS |

| PLICP | Plant condensate consumed by the industrial sector. | Thousand barrels | PLICPZZ = PLTCPZZ<br>PLICPUS = PLTCPUS |
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| PLTCB | Plant condensate total consumed. | Billion Btu | PLTCBZZ = PLTCPZZ * 5.418<br>PLTCBUS =  PLTCBZZ |
| PLTCP | Plant condensate total consumed. | Thousand barrels | PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS<br>PLTCPUS is independent. |
| POICB | Other petroleum products consumed by the industrial sector. | Billion Btu | POICBZZ = ABICBZZ + COICBZZ +<br>       FNICBZZ + FOICBZZ + FSICBZZ +<br>       MBICBZZ + MSICBZZ + NAICBZZ +<br>       PCICBZZ + PLICBZZ + PPICBZZ +<br>       SGICBZZ + SNICBZZ + UOICBZZ +<br>       USICBZZ + WXICBZZ<br>POICBUS =   POICBZZ |
| POICP | Other petroleum products consumed by the industrial sector. | Thousand barrels | POICPZZ = ABICPZZ + COICPZZ +<br>       FNICPZZ + FOICPZZ + FSICPZZ +<br>       MBICPZZ + MSICPZZ + NAICPZZ +<br>       PCICPZZ + PLICPZZ + PPICPZZ +<br>       SGICPZZ + SNICPZZ + UOICPZZ +<br>       USICPZZ + WXICPZZ<br>POICPUS =   POICPZZ |
| POTCB | Other petroleum products total consumed. | Billion Btu | POTCBZZ = ABTCBZZ + COTCBZZ +<br>       FNTCBZZ + FOTCBZZ + FSTCBZZ +<br>       MBTCBZZ + MSTCBZZ + NATCBZZ +<br>       PCTCBZZ + PLTCBZZ + PPTCBZZ +<br>       SGTCBZZ + SNTCBZZ + UOTCBZZ +<br>       USTCBZZ + WXTCBZZ<br>POTCBUS =   POTCBZZ |
| POTCP | Other petroleum products total consumed. | Thousand barrels | POTCPZZ = ABTCPZZ + COTCPZZ +<br>       FNTCPZZ + FOTCPZZ + FSTCPZZ +<br>       MBTCPZZ + MSTCPZZ + NATCPZZ +<br>       PCTCPZZ + PLTCPZZ + PPTCPZZ +<br>       SGTCPZZ + SNTCPZZ + UOTCPZZ +<br>       USTCPZZ + WXTCPZZ<br>POTCPUS =   POTCPZZ |
| PPICB | Pentanes plus consumed by the industrial sector. | Billion Btu | PPICBZZ = PPTCBZZ<br>PPICBUS = PPTCBUS |
| PPICP | Pentanes plus consumed by the industrial sector. | Thousand barrels | PPICPZZ = PPTCPZZ<br>PPICPUS = PPTCPUS |

| PPTCB | Pentanes plus total consumed. | Billion Btu | PPTCBZZ = PPTCPZZ * 4.620<br>PPTCBUS =   PPTCBZZ |
| PPTCP | Pentanes plus total consumed. | Thousand barrels | PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS<br>PPTCPUS is independent. |
| RDICP | Road oil consumed by the industrial sector. | Thousand barrels | RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS<br>RDICPUS =   RDICPZZ |
| RDINP | Road oil sold to the industrial sector. | Short tons | RDINPZZ is independent.<br>RDINPUS =   RDINPZZ |
| RDTCP | Road oil total consumed. | Thousand barrels | RDTCPZZ = RDICPZZ<br>RDTCPUS is independent. |
| REACB | Renewable energy sources consumed by the transportation sector. | Billion Btu | REACBZZ = ENACBZZ<br>REACBUS = ENACBUS |
| REACP | Renewable energy sources consumed by the transportation sector. | Thousand gallons | REACPZZ = ENACPZZ<br>REACPUS = ENACPUS |
| REEOB | Renewable energy sources consumed by the electric utilities. | Billion Btu | REEOBZZ = HVENBZZ + GEENBZZ +<br>          WWEOBZZ + WNEOBZZ<br>REEOBUS = HVENBUS + GEENBUS +<br>          WWEOBUS + WNEOBUS |
| REEOP | Renewable energy sources consumed by the electric utilities. | Million kilowatthours | REEOPZZ = HVENPZZ + GEENPZZ +<br>          WWEOPZZ + WNEOPZZ<br>REEOPUS = HVENPUS + GEENPUS +<br>          WWEOPUS + WNEOPUS |
| RECCB | Renewable energy sources consumed by the commercial sector. | Billion Btu | RECCBZZ = WDCCBZZ + GECCBZZ<br>RECCBUS = WDCCBUS + GECCBUS |
| REICB | Renewable energy sources consumed by the industrial sector. | Billion Btu | REICBZZ = GEICBZZ + HVATBZZ + SOICBZZ +<br>          WWICBZZ + WYICBZZ<br>REICBUS = GEICBUS + HVATBUS + SOICBUS +<br>WWICBUS + WYICBUS |
| RERCB | Renewable energy sources consumed by the residential sector. | Billion Btu | RERCBZZ = WDRCBZZ + GERCBZZ + SOHCBZZ<br>RERCBUS = WDRCBUS + GERCBUS + SOHCBUS |
| RETCB | Renewable energy sources total consumed. | Billion Btu | RETCBZZ = RERCBZZ + RECCBZZ + REICBZZ +<br>          REACBZZ + REEOBZZ<br>RETCBUS = RERCBUS + RECCBUS + REICBUS +<br>          REACBUS + REEOBUS |

| RFACB | Residual fuel consumed by the transportation sector. | Billion Btu | RFACBZZ = RFACPZZ * 6.287<br>RFACBUS = RFACBZZ |
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| RFACP | Residual fuel consumed by the transportation sector. | Thousand barrels | RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ<br>RFACPUS = RFACPZZ |
| RFBKP | Residual fuel sold for vessel bunkering use, excluding deliveries to the Armed Forces. | Thousand barrels | RFBKPZZ is independent.<br>RFBKPUS = RFBKPZZ |
| RFCCB | Residual fuel consumed by the commercial sector. | Billion Btu | RFCCBZZ = RFCCPZZ * 6.287<br>RFCCBUS = RFCCBZZ |
| RFCCP | Residual fuel consumed by the commercial sector. | Thousand barrels | RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ<br>RFCCPUS = RFCCPZZ |
| RFCMP | Residual fuel sold to the commercial sector. | Thousand barrels | RFCMPZZ is independent.<br>RFCMPUS = RFCMPZZ |
| RFEUB | Residual fuel consumed by the electric utilities. | Billion Btu | RFEUBZZ = RFEUPZZ * 6.287<br>RFEUBUS = RFEUBZZ |
| RFEUP | Residual fuel consumed by the electric utilities. | Thousand barrels | RFEUPZZ is independent.<br>RFEUPUS = RFEUPZZ |
| RFIBP | A portion of residual fuel sold for industrial use, including industrial space heating. | Thousand barrels | RFIBPZZ is independent.<br>RFIBPUS = RFIBPZZ |
| RFICB | Residual fuel consumed by the industrial sector. | Billion Btu | RFICBZZ = RFICPZZ * 6.287<br>RFICBUS = RFICBZZ |
| RFICP | Residual fuel consumed by the industrial sector. | Thousand barrels | RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ<br>RFICPUS = RFICPZZ |
| RFINP | Residual fuel sold to the industrial sector. | Thousand barrels | RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ<br>RFINPUS = RFINPZZ |
| RFMIP | Residual fuel sold to the Armed Forces, regardless of use. | Thousand barrels | RFMIPZZ is independent.<br>RFMIPUS = RFMIPZZ |
| RFMSP | Residual fuel sold for miscellaneous uses. | Thousand barrels | RFMSPZZ is independent.<br>RFMSPUS = RFMSPZZ |
| RFNCP | Residual fuel consumption by all sectors other than the electric utility sector. | Thousand barrels | RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS<br>RFNCPUS = RFTCPUS – RFEUPUS |

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| RFNDP | Residual fuel sold to all sectors other than the electric utility sector. | Thousand barrels | RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ<br>RFNDPUS =   RFNDPZZ |
| RFOCP | Residual fuel sold for use by oil companies. | Thousand barrels | RFOCPZZ is independent.<br>RFOCPUS =   RFOCPZZ |
| RFRRP | Residual fuel sold for use by railroads. | Thousand barrels | RFRRPZZ is independent.<br>RFRRPUS =   RFRRPZZ |
| RFTCB | Residual fuel total consumed. | Billion Btu | RFTCBZZ = RFCCBZZ + RFICBZZ +<br>　　　　　　　 RFACBZZ + RFEUBZZ<br>RFTCBUS =   RFTCBZZ |
| RFTCP | Residual fuel total consumed. | Thousand barrels | RFTCPZZ = RFNCPZZ + RFEUPZZ<br>RFTCPUS is independent. |
| RFTRP | Residual fuel sold to the transportation sector. | Thousand barrels | RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ<br>RFTRPUS =   RFTRPZZ |
| SGICB | Still gas consumed by the industrial sector. | Billion Btu | SGICBZZ = SGTCBZZ<br>SGICBUS = SGTCBUS |
| SGICP | Still gas consumed by the industrial sector. | Thousand barrels | SGICPZZ = SGTCPZZ<br>SGICPUS = SGTCPUS |
| SGTCB | Still gas total consumed. | Billion Btu | SGTCBZZ = SGTCPZZ * 6.000<br>SGTCBUS =   SGTCBZZ |
| SGTCP | Still gas total consumed. | Thousand barrels | SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS<br>SGTCPUS is independent. |
| SNICB | Special naphthas consumed by the industrial sector. | Billion Btu | SNICBZZ = SNTCBZZ<br>SNICBUS = SNTCBUS |
| SNICP | Special naphthas consumed by the industrial sector. | Thousand barrels | SNICPZZ = SNTCPZZ<br>SNICPUS = SNTCPUS |
| SNTCB | Special naphthas total consumed. | Billion Btu | SNTCBZZ = SNTCPZZ * 5.248<br>SNTCBUS =   SNTCBZZ |
| SNTCP | Special naphthas total consumed. | Thousand barrels | SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS<br>SNTCPUS is independent. |
| SOEOB | Electricity produced from photovoltaic and solar thermal energy by electric utilities. | Billion Btu | SOEOBZZ = SOEOPZZ * FFEOKUS<br>SOEOBUS =   SOEOBZZ |

| SOEOP | Electricity produced from photovoltaic and solar thermal energy by electric utilities. | Million kilowatthours | SOEOPZZ is independent.<br>SOEOPUS = SOEOPZZ |
| SOHCB | Solar thermal energy consumed by the residential and commercial sectors. | Billion Btu | SOHCBZZ = (SOTTPZZ / SOTTPUS) * SOHCBUS<br>SOHCBUS is independent. |
| SOICB | Electricity produced from photovoltaic and solar thermal energy sources in the industrial sector. | Billion Btu | SOICBZZ = SOICPZZ * FFEOKUS<br>SOICBUS = SOICBZZ |
| SOICP | Electricity produced from photovoltaic and solar thermal energy sources in the industrial sector. | Million kilowatthours | SOICPZZ is independent.<br>SOICPUS = SOICPZZ |
| SOTCB | Photovoltaic and solar thermal energy sources total consumed. | Billion Btu | SOTCBZZ = SOHCBZZ + SOICBZZ + SOEOBZZ<br>SOTCBUS = SOTCBZZ |
| SOTTP | Shipments of solar thermal collectors. | Square feet | SOTTPZZ is independent.<br>SOTTPUS = SOTTPZZ |
| TEACB | Total energy consumed by the transportation sector. | Billion Btu | TEACBZZ = CLACBZZ + NGACBZZ + PAACBZZ +<br>ESACBZZ + LOACBZZ<br>TEACBUS = CLACBUS + NGACBUS + PAACBUS +<br>ESACBUS + LOACBUS |
| TEAPB | The transportation sector's energy consumption per capita. | Million Btu | TEAPBZZ = TEACBZZ / TPOPPZZ<br>TEAPBUS = TEACBUS / TPOPPUS |
| TECCB | Total energy consumed by the commercial sector. | Billion Btu | TECCBZZ = CLCCBZZ + NGCCBZZ + PACCBZZ +<br>WDCCBZZ + GECCBZZ + ESCCBZZ +<br>LOCCBZZ<br>TECCBUS = CLCCBUS + NGCCBUS + PACCBUS +<br>WDCCBUS + GECCBUS + ESCCBUS +<br>LOCCBUS |
| TECPB | The commercial sector's energy consumption per capita. | Million Btu | TECPBZZ = TECCBZZ / TPOPPZZ<br>TECPBUS = TECCBUS / TPOPPUS |
| TEEUB | Total energy consumed by the electric utilities plus net imports of electricity into the United States. | Billion Btu | TEEUBZZ = CLEUBZZ + NGEUBZZ + PAEUBZZ +<br>HYENBZZ + NUEOBZZ + GEENBZZ +<br>WWEOBZZ + WNEOBZZ + EXNIBZZ<br>TEEUBUS = CLEUBUS + NGEUBUS + PAEUBUS +<br>HYENBUS + NUEOBUS + GEENBUS +<br>WWEOBUS + WNEOBUS + EXNIBUS |

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| TEICB | Total energy consumed by the industrial sector. | Billion Btu | TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYATBZZ + WWICBZZ + GOICBZZ + ESICBZZ + LOICBZZ<br>TEICBUS = CLICBUS + NGICBUS + PAICBUS + HYATBUS + WWICBUS + GOICBUS + ESICBUS + LOICBUS + CCNIBUS |
| TEIPB | The industrial sector's energy consumption per capita. | Million Btu | TEIPBZZ = TEICBZZ / TPOPPZZ<br>TEIPBUS = TEICBUS / TPOPPUS |
| TERCB | Total energy consumed by the residential sector. | Billion Btu | TERCBZZ = CLRCBZZ + NGRCBZZ + PARCBZZ + WDRCBZZ + GERCBZZ + SOHCBZZ + ESRCBZZ + LORCBZZ<br>TERCBUS = CLRCBUS + NGRCBUS + PARCBUS + WDRCBUS + GERCBUS + SOHCBUS + ESRCBUS + LORCBUS |
| TERPB | The residential sector's energy consumption per capita. | Million Btu | TERPBZZ = TERCBZZ / TPOPPZZ<br>TERPBUS = TERCBUS / TPOPPUS |
| TESSB | Total energy consumed (sum of the four end-use sectors). CSEDS cross-check not used in *SEDR* tables. | Billion Btu | TESSBZZ = TERCBZZ + TECCBZZ + TEICBZZ + TEACBZZ<br>TESSBUS = TERCBUS + TECCBUS + TEICBUS + TEACBUS |
| TETCB | Total energy consumed (sum of all energy sources) used in *SEDR* tables. | Billion Btu | TETCBZZ = CLTCBZZ + NGTCBZZ + PATCBZZ + NUETBZZ + HYTCBZZ + WWTCBZZ + GOTCBZZ + EXNIBZZ + ELISBZZ<br>TETCBUS = CLTCBUS + CCNIBUS + NGTCBUS + PATCBUS + NUETBUS + HYTCBUS + WWTCBUS + GOTCBUS + EXNIBUS |
| TETPB | Total energy consumption per capita. | Million Btu | TETPBZZ = TETCBZZ / TPOPPZZ<br>TETPBUS = TETCBUS / TPOPPUS |
| TNACB | Total net energy consumed by the transportation sector excluding the sector's share of electrical system energy losses. | Billion Btu | TNACBZZ = TEACBZZ – LOACBZZ<br>TNACBUS = TEACBUS – LOACBUS |
| TNCCB | Total net energy consumed by the commercial sector excluding the sector's share of electrical system energy losses. | Billion Btu | TNCCBZZ = TECCBZZ – LOCCBZZ<br>TNCCBUS = TECCBUS – LOCCBUS |

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| TNICB | Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses. | Billion Btu | TNICBZZ = TEICBZZ – LOICBZZ<br>TNICBUS = TEICBUS – LOICBUS |
| TNRCB | Total net energy consumed by the residential sector excluding the sector's share of electrical system energy losses. | Billion Btu | TNRCBZZ = TERCBZZ – LORCBZZ<br>TNRCBUS = TERCBUS – LORCBUS |
| TPOPP | The resident population including the Armed Forces residing in each State. | Thousand | TPOPPZZ is independent.<br>TPOPPUS is independent. |
| UOICB | Unfinished oils consumed by the industrial sector. | Billion Btu | UOICBZZ = UOTCBZZ<br>UOICBUS = UOTCBUS |
| UOICP | Unfinished oils consumed by the industrial sector. | Thousand barrels | UOICPZZ = UOTCPZZ<br>UOICPUS = UOTCPUS |
| UOTCB | Unfinished oils total consumed. | Billion Btu | UOTCBZZ = UOTCPZZ * 5.825<br>UOTCBUS = UOTCBZZ |
| UOTCP | Unfinished oils total consumed. | Thousand barrels | UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS<br>UOTCPUS is independent. |
| USICB | Unfractionated stream consumed by the industrial sector. | Billion Btu | USICBZZ = USTCBZZ<br>USICBUS = USTCBUS |
| USICP | Unfractionated stream consumed by the industrial sector. | Thousand barrels | USICPZZ = USTCPZZ<br>USICPUS = USTCPUS |
| USTCB | Unfractionated stream total consumed. | Billion Btu | USTCBZZ = USTCPZZ * 5.418<br>USTCBUS = USTCBZZ |
| USTCP | Unfractionated stream total consumed. | Thousand barrels | USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS<br>USTCPUS is independent. |
| WDCCB | Wood energy consumed by the commercial sector. | Billion Btu | WDCCBZZ = (WDRCPZZ / WDRCPUS) * WDCCBUS<br>WDCCBUS is independent. |
| WDCCP | Wood energy consumed by the commercial sector. | Thousand cords | WDCCPZZ = WDCCBZZ / 20<br>WDCCPUS = WDCCPZZ |
| WDEOB | Electricity produced from wood energy sources at electric utilities. | Billion Btu | WDEOBZZ = WDEOPZZ * FFEOKUS<br>WDEOBUS = WDEOBZZ |

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| WDEOP | Electricity produced from wood energy sources at electric utilities. | Million kilowatthours | WDEOPZZ is independent.<br>WDEOPUS = WDEOPZZ |
| WDRCB | Wood energy consumed by the residential sector. | Billion Btu | WDRCBZZ = WDRCPZZ * 20<br>WDRCBUS = WDRCBZZ |
| WDRCP | Wood energy consumed by the residential sector. | Thousand cords | WDRCPZZ is independent.<br>WDRCPUS = WDRCPZZ |
| WNEOB | Electricity produced from wind, photo-voltaic, and solar thermal energy sources at electric utilities. | Billion Btu | WNEOBZZ = SOEOBZZ + WYEOBZZ<br>WNEOBUS = WNEOBZZ |
| WNEOP | Electricity produced from wind, photo-voltaic, and solar thermal energy sources at electric utilities. | Million kilowatthours | WNEOPZZ = SOEOPZZ + WYEOPZZ<br>WNEOPUS = WNEOPZZ |
| WSEOB | Electricity produced from waste energy sources at electric utilities. | Billion Btu | WSEOBZZ = WSEOPZZ * FFEOKUS<br>WSEOBUS = WSEOBZZ |
| WSEOP | Electricity produced from waste energy sources at electric utilities. | Million kilowatthours | WSEOPZZ is independent.<br>WSEOPUS = WSEOPZZ |
| WWATB | Electricity produced from wood and waste at nonutility power producers. | Billion Btu | WWATBZZ is independent.<br>WWATBUS = WWATBZZ |
| WWATP | Electricity produced from wood and waste at nonutility power producers. | Million kilowatthours | WWATPZZ is independent.<br>WWATPUS = WWATPZZ |
| WWEOB | Electricity produced from wood and waste at electric utilities. | Billion Btu | WWEOBZZ = WDEOBZZ + WSEOBZZ<br>WWEOBUS = WWEOBZZ |
| WWEOP | Electricity produced from wood and waste at electric utilities. | Million kilowatthours | WWEOPZZ = WDEOPZZ + WSEOPZZ<br>WWEOPUS = WWEOPZZ |
| WWICB | Wood and waste consumed by the industrial sector. | Billion Btu | WWICBZZ = WWATBZZ + WWINBZZ<br>WWICBUS = WWICBZZ |
| WWINB | Wood and waste consumed by the manufacturing portion of the industrial sector. | Billion Btu | WWINBZZ is independent.<br>WWINBUS = WWINBZZ |
| WWTCB | Wood and waste total consumed. | Billion Btu | WWTCBZZ = WDRCBZZ + WDCCBZZ +<br>WWICBZZ + WWEOBZZ<br>WWTCBUS = WWTCBZZ |

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| WXICB | Waxes consumed by the industrial sector. | Billion Btu | WXICBZZ = WXTCBZZ<br>WXICBUS = WXTCBUS | |
| WXICP | Waxes consumed by the industrial sector. | Thousand barrels | WXICPZZ = WXTCPZZ<br>WXICPUS = WXTCPUS | |
| WXTCB | Waxes total consumed. | Billion Btu | WXTCBZZ = WXTCPZZ * 5.537<br>WXTCBUS =   WXTCBZZ | |
| WXTCP | Waxes total consumed. | Thousand barrels | WXTCPZZ = (CGVAVZZ / CGVAVUS) *<br>            WXTCPUS<br>WXTCPUS is independent. | |
| WYEOB | Electricity produced from wind energy at electric utilities. | Billion Btu | WYEOBZZ = WYEOPZZ * FFEOKUS<br>WYEOBUS =   WYEOBZZ | |
| WYEOP | Electricity produced from wind energy at electric utilities. | Million kilowatthours | WYEOPZZ is independent.<br>WYEOPUS =   WYEOPZZ | |
| WYICB | Electricity produced from wind energy by the industrial sector. | Billion Btu | WYICBZZ = WYICPZZ * FFEOKUS<br>WYICBUS =   WYICBZZ | |
| WYICP | Electricity produced from wind energy by the industrial sector. | Million kilowatthours | WYICPZZ is independent.<br>WYICPUS =   WYICPZZ | |
| WYTCB | Electricity produced from wind energy total produced. | Billion Btu | WYTCBZZ = WYICBZZ + WYEOBZZ<br>WYTCBUS =   WYTCBZZ | |

**A P P E N D I X   A**