

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

<b>Character Positions:</b>	<b>1 and 2</b>	<b>3 and 4</b>	<b>5</b>	<b>6 and 7</b>
<b>Identify:</b>	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.

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

AVNMM	Aviation gasoline sold to nonmilitary users.	Thousand gallons	AVNMMZZ is independent. AVNMMUS = $\Sigma$ AVNMMZZ
AVNMP	Aviation gasoline sold to nonmilitary users.	Thousand barrels	AVNMPZZ = AVNMMZZ / 42 AVNMPUS = $\Sigma$ AVNMPZZ
AVTCB	Aviation gasoline total consumed.	Billion Btu	AVTCBZZ = AVACBZZ AVTCBUS = $\Sigma$ AVTCBZZ
AVTCP	Aviation gasoline total consumed.	Thousand barrels	AVTCPZZ = AVACPZZ AVTCPUS is independent.
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	AVTTPZZ = AVNMPZZ + AVMIPZZ AVTTPUS = $\Sigma$ 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. CGVAVUS = $\Sigma$ CGVAVZZ
CLACB	Coal consumed by the transportation sector.	Billion Btu	CLACBZZ = CLACPZZ * CLACKZZ CLACBUS = $\Sigma$ CLACBZZ
CLACK	Factor for converting coal consumed by the transportation sector from physical units to Btu.	Million Btu per short ton	CLACKZZ is independent. CLACKUS = CLACBUS / CLACPUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS CLACPUS is independent.
CLCCB	Coal consumed by the commercial sector.	Billion Btu	CLCCBZZ = CLCCPZZ * CLHCKZZ CLCCBUS = $\Sigma$ CLCCBZZ
CLCCP	Coal consumed by the commercial sector.	Thousand short tons	CLCCP = CLHCPZZ - CLRCPZZ CLCCPUS = $\Sigma$ CLCCPZZ

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CLEIB	Coal consumed by the electric power sector.	Billion Btu	CLEIBZZ = CLEIPZZ * CLEIKZZ CLEIBUS = ΣCLEIBZZ
CLEIK	Factor for converting coal consumed by the electric power sector from physical units to Btu.	Million Btu per short ton	CLEIKZZ is independent. CLEIKUS = CLEIBUS / CLEIPUS
CLEIP	Coal consumed by the electric power sector.	Thousand short tons	CLEIPZZ is independent CLEIPUS = ΣCLEIPZZ
CLHCK	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. CLHCKUS = CLHCBUS / CLHCPUS
CLHCP	Coal consumed by the residential and commercial sectors.	Thousand short tons	CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLHCPUS is independent.
CLHDP	Coal distributed to the residential and commercial sectors.	Thousand short tons	CLHDPZZ is independent. CLHDPUS = ΣCLHDPZZ
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = CLKCBZZ + CLOCBZZ CLICBUS = ΣCLICBZZ
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = CLKCPZZ + CLOCPZZ CLICPUS = ΣCLICPZZ
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = CLKCPZZ * CLKCKZZ CLKCBUS = ΣCLKCBZZ
CLKCK	The factor for converting coal consumed at at coke plants from physical units to Btu.	Million Btu per short ton	CLKCKZZ is independent. CLKCKUS = CLKCBUS / CLKCPUS
CLKCP	Coal consumed by coke plants (coking coal).	Thousand short tons	CLKCPZZ = (CLKDPZZ / CLKDPUS) * CLKCPUS CLKCPUS is independent.
CLKDP	Coal distributed to coke plants (coking coal).	Thousand short tons	CLKDPZZ is independent. CLKDPUS = ΣCLKDPZZ
CLOCB	Coal consumed by other industrial users.	Billion Btu	CLOCBZZ = CLOCPZZ * CLOCKZZ CLOCBUS = ΣCLOCBZZ
CLOCK	The factor for converting coal consumed by other industrial users from physical units to Btu.	Million Btu per short ton	CLOCKZZ is independent. CLOCKUS = CLOCBUS / CLOCPUS
CLOCP	Coal consumed by other industrial users.	Thousand short tons	CLOCPZZ = (CLODPZZ / CLODPUS) * CLOCPUS CLOCPUS is independent.

CLODP	Coal distributed to other industrial users.	Thousand short tons	CLODPZZ is independent. CLODPUS = $\Sigma$ CLODPZZ
CLRCB	Coal consumed by the residential sector.	Billion Btu	CLRCBZZ = CLRCPZZ * CLHCKZZ CLRCBUS = $\Sigma$ CLRCBZZ
CLRCP	Coal consumed by the residential sector.	Thousand short tons	CLRCPZZ = CLHCPZZ * CLRCSUS CLRCPUS = $\Sigma$ CLRCPZZ
CLRCSUS	The share of residential and commercial coal consumed by the residential sector.	Percent	CLRCSUS is independent.
CLTCB	Coal total consumed.	Billion Btu	CLTCBZZ = CLRCBZZ + CLCCBZZ + CLICBZZ + CLACBZZ + CLEIBZZ CLTCBUS = $\Sigma$ CLTCBZZ
CLTCP	Coal total consumed.	Thousand short tons	CLTCPZZ = CLRCPZZ + CLCCPZZ + CLICPZZ + CLACPZZ + CLEIPZZ CLTCPUS = $\Sigma$ CLTCPZZ
COCAP	Crude oil operating capacity at refineries.	Barrels per calendar day	COCAPZZ is independent. COCAPUS = $\Sigma$ COCAPZZ
COICB	Crude oil consumed by the industrial sector.	Billion Btu	COICBZZ = COTCBZZ COICBUS = COTCBUS
COICP	Crude oil consumed by the industrial sector.	Thousand barrels	COICPZZ = COTCPZZ COICPUS = COTCPUS
COTCB	Crude oil consumed in petroleum industry operations.	Billion Btu	COTCBZZ = COTCPZZ * 5.800 COTCBUS = $\Sigma$ COTCBZZ
COTCP	Crude oil consumed in petroleum industry operations.	Thousand barrels	COTCPZZ is independent. COTCPUS = $\Sigma$ COTCPZZ
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960 through 1979: Barrels per calendar day 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = $\Sigma$ CTCAPZZ
DFACB	Distillate fuel oil consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * 5.825 DFACBUS = $\Sigma$ DFACBZZ
DFACP	Distillate fuel oil consumed by the transportation sector.	Thousand barrels	DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ DFACPUS = $\Sigma$ DFACPZZ

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DFBKP	Distillate fuel oil sales for vessel bunkering use, excluding that sold to the Armed Forces.	Thousand barrels	DFBKPZZ is independent. DFBKPUS = $\Sigma$ DFBKPZZ
DFCCB	Distillate fuel oil consumed by the commercial sector.	Billion Btu	DFCCBZZ = DFCCPZZ * 5.825 DFCCBUS = $\Sigma$ DFCCBZZ
DFCCP	Distillate fuel oil consumed by the commercial sector.	Thousand barrels	DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ DFCCPUS = $\Sigma$ DFCCPZZ
DFCMP	Distillate fuel oil sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = $\Sigma$ DFCMPZZ
DFEIB	Distillate fuel oil consumed by the electric power sector.	Billion Btu	DFEIBZZ = DFEIPZZ * 5.825 DFEIBUS = $\Sigma$ DFEIBZZ
DFEIP	Distillate fuel oil (excluding kerosene-type jet fuel) consumed by the electric power sector.	Thousand barrels	DFEIPZZ = DKEIPZZ - JKEUPZZ DFEIPUS = $\Sigma$ DFEIPZZ
DFIBP	Distillate fuel oil sales for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. DFIBPUS = $\Sigma$ DFIBPZZ
DFICB	Distillate fuel oil consumed by the industrial sector.	Billion Btu	DFICBZZ = DFICPZZ * 5.825 DFICBUS = $\Sigma$ DFICBZZ
DFICP	Distillate fuel oil consumed by the industrial sector.	Thousand barrels	DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ DFICPUS = $\Sigma$ DFICPZZ
DFINP	Distillate fuel oil sales to the industrial sector.	Thousand barrels	DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = $\Sigma$ DFINPZZ
DFMIP	Distillate fuel oil sales to the Armed Forces, regardless of use.	Thousand barrels	DFMIPZZ is independent. DFMIPUS = $\Sigma$ DFMIPZZ
DFNCP	Distillate fuel oil consumption by all sectors other than the electric power sector.	Thousand barrels	DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS DFNCPUS = DFTCPUS - DFEIPUS
DFNDP	Distillate fuel oil sales to all sectors other than the electric power sector.	Thousand barrels	DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ DFNDPUS = $\Sigma$ DFNDPZZ
DFOCP	Distillate fuel oil sales for use by oil companies.	Thousand barrels	DFOCPZZ is independent. DFOCPUS = $\Sigma$ DFOCPZZ

DFOFP	Distillate fuel oil sales as diesel fuel for off-highway use.	Thousand barrels	DFOFPZZ is independent. DFOFPUS = $\Sigma$ DFOFPZZ
DFONP	Distillate fuel oil sales as diesel fuel for on-highway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = $\Sigma$ DFONPZZ
DFOTP	Distillate fuel oil sales for all other uses not identified in other sales categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = $\Sigma$ DFOTPZZ
DFRCB	Distillate fuel oil consumed by the residential sector.	Billion Btu	DFRCBZZ = DFRCPZZ * 5.825 DFRCBUS = $\Sigma$ DFRCBZZ
DFRCP	Distillate fuel oil consumed by the residential sector.	Thousand barrels	DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ DFRCPUS = $\Sigma$ DFRCPZZ
DFRRP	Distillate fuel oil sales for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = $\Sigma$ DFRRPZZ
DFRSP	Distillate fuel oil sales to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = $\Sigma$ DFRSPZZ
DFTCB	Distillate fuel oil total consumed.	Billion Btu	DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEIBZZ DFTCBUS = $\Sigma$ DFTCBZZ
DFTCP	Distillate fuel oil total consumed.	Thousand barrels	DFTCPZZ = DFNCPZZ + DFEIPZZ DFTCPUS is independent.
DFTRP	Distillate fuel oil sales to the transportation sector.	Thousand barrels	DFTRPZZ = DFBKPZZ + DFMPZZ + DFRRPZZ + DFONPZZ DFTRPUS = $\Sigma$ DFTRPZZ
DKEIB	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Billion Btu	DKEIBZZ = DFEIBZZ + JKEUBZZ DKEIBUS = $\Sigma$ DKEIBZZ
DKEIP	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Thousand barrels	DKEIPZZ is independent. DKEIPUS = $\Sigma$ DKEIPZZ
ELEXB	Electricity exported from the United States.	Billion Btu	ELEXBZZ = ELEXPZZ * 3.412 ELEXBUS = $\Sigma$ ELEXBZZ
ELEXP	Electricity exported from the United States.	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = $\Sigma$ ELEXPZZ

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ELIMB	Electricity imported into the United States	Billion Btu	ELIMBZZ = ELIMPZZ * 3.412 ELIMBUS = ΣELIMBZZ
ELIMP	Electricity imported into the United States	Million kilowatthours	ELIMPZZ is independent. ELIMPUS = ΣELIMPZZ
ELISB	Net interstate flow of electricity. (Negative indicates flow out of State; positive indicates flow into State.)	Billion Btu	ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZ ELISBUS = ΣELISBZZ
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
ELNIB	Net imports of electricity into the United States.	Billion Btu	ELNIBZZ = ELIMBZZ - ELEXBZZ ELNIBUS = ΣELNIBZZ
ELNIP	Net imports of electricity into the United States.	Million kilowatthours	ELNIPZZ = ELIMPZZ - ELEXPZZ ELNIPUS = ΣELNIPZZ
ENACB	Fuel ethanol consumed by the transportation sector.	Billion Btu	ENACBZZ = ENACPZZ * 3.539 ENACBUS = ΣENACBZZ
ENACP	Fuel ethanol consumed by the transportation sector.	Thousand barrels	ENACPZZ = (MGACPZZ / MGTCPPZZ) * ENTCPZZ ENACPUS = ΣENACPZZ
ENCCB	Fuel ethanol consumed by the commercial sector.	Billion Btu	ENCCBZZ = (ENCCPZZ * 3.539) ENCCBUS = ΣENCCBZZ
ENCCP	Fuel ethanol consumed by the commercial sector.	Thousand barrels	ENCCPZZ = (MGCCPZZ / MGTCPPZZ) * ENTCPZZ ENCCPUS = ΣENCCPZZ
ENICB	Fuel ethanol consumed by the industrial sector.	Billion Btu	ENICBZZ = (ENICPZZ * 3.539) ENICBUS = ΣENICBZZ
ENICP	Fuel ethanol consumed by the industrial sector.	Thousand barrels	ENICPZZ = (MGICPZZ / MGTCPPZZ) * ENTCPZZ ENICPUS = ΣENICPZZ
ENLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	ENLCBUS is independent.
ENTCB	Fuel ethanol total consumed.	Billion Btu	ENTCBZZ = ENACBZZ + ENCCBZZ + ENICBZZ ENTCBUS = ΣENTCBZZ
ENTCP	Fuel ethanol total consumed.	Thousand gallons	ENTCPZZ = (ENTRPZZ / ENTRPUS) * ENTCPUS ENTCPUS is independent.

ENTRP	Fuel ethanol blended into motor gasoline.	Thousand gallons	ENTRPZZ is independent. ENTRPUS = $\Sigma$ ENTRPZZ
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	Billion Btu	ESACBZZ = ESACPZZ * 3.412 ESACBUS = $\Sigma$ ESACBZZ
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	Million kilowatthours	ESACPZZ = ESTRPZZ ESACPUS = $\Sigma$ ESACPZZ
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	Billion Btu	ESCCBZZ = ESCCPZZ * 3.412 ESCCBUS = $\Sigma$ ESCCBZZ
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	Million kilowatthours	ESCCPZZ = ESCMPZZ + ESOTPZZ - ESACPZZ ESCCPUS = $\Sigma$ ESCCPZZ
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. ESCMPUS = $\Sigma$ ESCMPZZ
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	Billion Btu	ESICBZZ = ESICPZZ * 3.412 ESICBUS = $\Sigma$ ESICBZZ
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	Million kilowatthours	ESICPZZ is independent. ESICPUS = $\Sigma$ ESICPZZ
ESOTP	Electricity sold to the "Other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = $\Sigma$ ESOTPZZ
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = $\Sigma$ ESRCBZZ
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = $\Sigma$ ESRCPZZ
ESTCB	Electricity total consumed (i.e., sold).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = $\Sigma$ ESTCBZZ ESTCB48 = ESTCBUS - (ESTCBAK + ESTCBHI)
ESTCP	Electricity total consumed (i.e., sold).	Million kilowatthours	ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ ESTCPUS = $\Sigma$ ESTCPZZ
ESTRP	Electricity consumed by transit systems.	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = $\Sigma$ ESTRPZZ

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ESTRSUS	The share of electricity sold to the “Other” sector (ESOTP) that is used for transportation.	Fraction	ESTRSUS = ESACPUS / ESOTPUS
FFETKUS	Fossil-fueled steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFETKUS is independent.
FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
FNICP	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
FNTCB	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Billion Btu	FNTCBZZ = FNTCPZZ * 5.248 FNTCBUS = ΣFNTCBZZ
FNTCP	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Thousand barrels	FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS FNTCPUS is independent.
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS
FOICP	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
FOTCB	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Billion Btu	FOTCBZZ = FOTCPZZ * 5.825 FOTCBUS = ΣFOTCBZZ
FOTCP	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Thousand barrels	FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS FOTCPUS is independent.
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS
FSTCB	Petrochemical feedstocks, still gas, total consumed.	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ
FSTCP	Petrochemical feedstocks, still gas, total consumed.	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
GDPRX	Real gross domestic product.	Billion chained (2000) dollars	GDPRXZZ is independent. GDPRXUS is independent.

GECCB	Direct use of geothermal energy and heat pumps in the commercial sector.	Billion Btu	GECCBZZ is independent. GECCBUS = $\Sigma$ GECCBZZ
GEEGB	Electricity produced from geothermal energy by the electric power sector.	Billion Btu	GEEGBZZ = GEEGPZZ * GEETKUS GEEGBUS = $\Sigma$ GEEGBZZ
GEEGP	Electricity produced from geothermal energy by the electric power sector.	Million kilowatthours	GEEGPZZ is independent. GEEGPUS = $\Sigma$ GEEGPZZ
GEETKUS	Factor for converting electricity produced from geothermal energy from physical units to Btu.	Thousand Btu per kilowatthour	GEETKUS is independent.
GEICB	Direct use of geothermal energy and heat pumps in the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = $\Sigma$ GEICBZZ
GERCB	Direct use of geothermal energy and heat pumps in the residential sector.	Billion Btu	GERCBZZ is independent. GERCBUS = $\Sigma$ GERCBZZ
GETCB	Geothermal total energy consumed.	Billion Btu	GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ GETCBUS = $\Sigma$ GETCBZZ
GOTCB	Electricity produced from geothermal, wind, photovoltaic, and solar thermal energy sources and net international trade of electricity.	Billion Btu	GOTCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ + ELNIBZZ GOTCBUS = $\Sigma$ GOTCBZZ
HVC5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVC5PZZ is independent. HVC5PUS = $\Sigma$ HVC5PZZ
HVEGP	Electricity produced from conventional hydropower by the electric power sector.	Million kilowatthours	HVEGPZZ is independent. HVEGPUS = $\Sigma$ HVEGPZZ
HVI5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVI5PZZ is independent. HVI5PUS = $\Sigma$ HVI5PZZ
HYCCB	Electricity produced from conventional hydropower in the commercial sector.	Billion Btu	HYCCBZZ = HYCCPZZ * FFETKUS HYCCBUS = $\Sigma$ HYCCBZZ
HYCCP	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HYCCPZZ = HVC5PZZ HYCCPUS = $\Sigma$ HYCCPZZ
HYEGB	Electricity produced from all types of hydropower by the electric power sector.	Billion Btu	HYEGBZZ = HVEGPZZ * FFETKUS HYEGBUS = $\Sigma$ HYEGBZZ
HYEGP	Electricity produced from all types of hydropower by the electric power sector.	Million kilowatthours	HYEGPZZ = HVEGPZZ HYEGPUS = $\Sigma$ HYEGPZZ

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HYICB	Electricity produced from conventional hydropower in the industrial sector.	Billion Btu	HYICBZZ = HYICPZZ * FFETKUS HYICBUS = ΣHYICBZZ
HYICP	Electricity produced from conventional hydropower in the industrial sector.	Million kilowatthours	HYICPZZ = HVI5PZZ HYICPUS = ΣHYICPZZ
HYTCB	Electricity produced from hydropower; total production.	Billion Btu	HYTCBZZ = HYCCBZZ + HYEGBZZ + HYICBZZ HYTCBUS = ΣHYTCBZZ
HYTCP	Electricity produced from hydropower; total production.	Million kilowatthours	HYTCPZZ = HYCCPZZ + HYECPZZ + HYICPZZ HYTCPUS = ΣHYTCPZZ
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	JFACBZZ = JKACBZZ + JNACBZZ JFACBUS = ΣJFACBZZ
JFACP	Jet fuel consumed by the transportation sector.	Thousand barrels	JFACPZZ = JKACPZZ + JNACPZZ JFACPUS = ΣJFACPZZ
JFEUB	Jet fuel consumed by electric power sector.	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by electric power sector.	Thousand barrels	JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS
JFTCB	Jet fuel total consumed.	Billion Btu	JFTCBZZ = JFACBZZ + JFEUBZZ JFTCBUS = ΣJFTCBZZ
JFTCP	Jet fuel total consumed.	Thousand barrels	JFTCPZZ = JFACPZZ + JFEUPZZ JFTCPUS = ΣJFTCPZZ
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	Billion Btu	JKACBZZ = JKACPZZ * 5.670 JKACBUS = ΣJKACBZZ
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	Thousand barrels	JKACPZZ = (JKTTPZZ / JKTTTPUS) * JKACPUS JKACPUS = JKTCPUS - JKEUPUS
JKEUB	Kerosene-type jet fuel consumed by electric power sector.	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = ΣJKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by electric power sector.	Thousand barrels	JKEUPZZ is independent. JKEUPUS = ΣJKEUPZZ
JKTCB	Kerosene-type jet fuel total consumed.	Billion Btu	JKTCBZZ = JKTCPZZ * 5.670 JKTCBUS = ΣJKTCBZZ

JKTCP	Kerosene-type jet fuel total consumed.	Thousand barrels	JKTCPZZ = JKACPZZ + JKEUPZZ JKTCPUS is independent.
JKTTP	Kerosene-type jet fuel total sold.	Thousand gallons	JKTTPZZ is independent. JKTTPUS = $\Sigma$ JKTTPZZ
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	Billion Btu	JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	Thousand barrels	JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS
JNMIP	Naphtha-type jet fuel issued to the military.	Thousand barrels	JNMIPZZ is independent. JNMIPUS = $\Sigma$ JNMIPZZ
JNTCB	Naphtha-type jet fuel total consumed.	Billion Btu	JNTCBZZ = JNTCPZZ * 5.355 JNTCBUS = $\Sigma$ JNTCBZZ
JNTCP	Naphtha-type jet fuel total consumed.	Thousand barrels	JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS JNTCPUS is independent.
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	KSCCBZZ = KSCCPZZ * 5.670 KSCCBUS = $\Sigma$ KSCCBZZ
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ KSCCPUS = $\Sigma$ KSCCPZZ
KSCMP	Kerosene sold to the commercial sector.	Thousand barrels	KSCMPZZ is independent. KSCMPUS = $\Sigma$ KSCMPZZ
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	KSICBZZ = KSICPZZ * 5.670 KSICBUS = $\Sigma$ KSICBZZ
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ KSICPUS = $\Sigma$ KSICPZZ
KSIHP	Kerosene sold for industrial heating.	Thousand barrels	KSIHPZZ is independent. KSIHPUS = $\Sigma$ KSIHPZZ
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	KSINPZZ = KSOTPZZ + KSIHPZZ KSINPUS = $\Sigma$ KSINPZZ
KSOTP	Kerosene sold for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. KSOTPUS = $\Sigma$ KSOTPZZ

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KSRCB	Kerosene consumed by the residential sector.	Billion Btu	KSRCBZZ = KSRCPZZ * 5.670 KSRCBUS = ΣKSRCBZZ
KSRCP	Kerosene consumed by the residential sector.	Thousand barrels	KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ KSRCBUS = ΣKSRCPZZ
KSRSP	Kerosene sold to the residential sector.	Thousand barrels	KSRSPZZ is independent. KSRSPUS = ΣKSRSPZZ
KSTCB	Kerosene total consumed.	Billion Btu	KSTCBZZ = KSRCBZZ + KSICBZZ + KSCCBZZ KSTCBUS = ΣKSTCBZZ
KSTCP	Kerosene total consumed.	Thousand barrels	KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS KSTCPUS is independent.
KSTTP	Kerosene total sold.	Thousand barrels	KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ KSTTPUS = ΣKSTTPZZ
LGACB	LPG consumed by the transportation sector.	Billion Btu	LGACBZZ = LGACPZZ * LGTKUS LGACBUS = ΣLGACBZZ
LGACP	LPG consumed by the transportation sector.	Thousand barrels	LGACPZZ = LGCBPZZ * LGTRSUS LGACPUS = ΣLGACPZZ
LGCBM	LPG sales for internal combustion engine use.	Thousand gallons	LGCBMZZ is independent. LGCBMUS = ΣLGCBMZZ
LGCBP	LPG consumed for internal combustion engine use.	Thousand barrels	LGCBPZZ = LGCBMZZ / 42 LGCBPUS = ΣLGCBPZZ
LGCCB	LPG consumed by the commercial sector.	Billion Btu	LGCCBZZ = LGCCPZZ * LGTKUS LGCCBUS = ΣLGCCBZZ
LGCCP	LPG consumed by the commercial sector.	Thousand barrels	LGCCPZZ = LGHCPZZ * 0.15 LGCCPUS = ΣLGCCPZZ
LGHCM	LPG sold for residential and commercial use.	Thousand gallons	LGHCMZZ is independent. LGHCMUS = ΣLGHCMZZ
LGHCP	LPG consumed by the residential and commercial sectors.	Thousand barrels	LGHCPZZ = LGHCMZZ / 42 LGHCPUS = ΣLGHCPZZ
LGICB	LPG consumed by the industrial sector.	Billion Btu	LGICBZZ = LGICPZZ * LGTKUS LGICBUS = ΣLGICBZZ

LGICP	LPG consumed by the industrial sector.	Thousand barrels	$\text{LGICPZZ} = \text{LGTCPPZZ} - (\text{LGRCPZZ} + \text{LGCCPZZ} + \text{LGACPZZ})$ $\text{LGICPUS} = \Sigma \text{LGICPZZ}$
LGRCB	LPG consumed by the residential sector.	Billion Btu	$\text{LGRCBZZ} = \text{LGRCPZZ} * \text{LGTCKUS}$ $\text{LGRCBUS} = \Sigma \text{LGRCBZZ}$
LGRCP	LPG consumed by the residential sector.	Thousand barrels	$\text{LGRCPZZ} = \text{LGHCPZZ} * 0.85$ $\text{LGRCPUS} = \Sigma \text{LGRCPZZ}$
LGTCB	LPG total consumed.	Billion Btu	$\text{LGTCBZZ} = \text{LGRCBZZ} + \text{LGCCBZZ} + \text{LGICBZZ} + \text{LGACBZZ}$ $\text{LGTCBUS} = \Sigma \text{LGTCBZZ}$
LGTCKUS	Factor for converting LPG from physical units to Btu.	Million Btu per barrel	LGTCKUS is independent.
LGTCP	LPG total consumed.	Thousand barrels	$\text{LGTCPZZ} = (\text{LGTTPZZ} / \text{LGTTPUS}) * \text{LGTCPUS}$ LGTCPUS is independent.
LGTRSUS	The transportation sector's share of LPG internal combustion engine sales.	Fraction	LGTRSUS is independent.
LGTTTP	LPG total sold.	Thousand gallons	LGTTTPZZ is independent. $\text{LGTTTPUS} = \Sigma \text{LGTTTPZZ}$
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	$\text{LOACBZZ} = \text{ESACBZZ} * \text{ELLSS48}$ Exceptions: $\text{LOACBAK} = (\text{ESACBAK} / \text{ESTCBAK}) * \text{LOT CBAK}$ $\text{LOACBHI} = (\text{ESACBHI} / \text{ESTCBHI}) * \text{LOT CBHI}$ $\text{LOACBUS} = \Sigma \text{LOACBZZ}$
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	$\text{LOCCBZZ} = \text{ESCCBZZ} * \text{ELLSS48}$ Exceptions: $\text{LOCCBAK} = (\text{ESCCBAK} / \text{ESTCBAK}) * \text{LOT CBAK}$ $\text{LOCCBHI} = (\text{ESCCBHI} / \text{ESTCBHI}) * \text{LOT CBHI}$ $\text{LOCCBUS} = \Sigma \text{LOCCBZZ}$
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	$\text{LOICBZZ} = \text{ESICBZZ} * \text{ELLSS48}$ Exceptions: $\text{LOICBAK} = (\text{ESICBAK} / \text{ESTCBAK}) * \text{LOT CBAK}$ $\text{LOICBHI} = (\text{ESICBHI} / \text{ESTCBHI}) * \text{LOT CBHI}$ $\text{LOICBUS} = \Sigma \text{LOICBZZ}$
LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	$\text{LORCBZZ} = \text{ESRCBZZ} * \text{ELLSS48}$ Exceptions:

$$\begin{aligned} \text{LORCBAK} &= (\text{ESRCBAK} / \text{ESTCBAK}) * \text{LOT CBAK} \\ \text{LORCBHI} &= (\text{ESRCBHI} / \text{ESTCBHI}) * \text{LOT CBHI} \\ \text{LORCBUS} &= \Sigma \text{LORCBZZ} \end{aligned}$$

$$\begin{aligned} \text{LOT CBZZ} &= \text{ESTCBZZ} * \text{ELLSS48} \\ \text{Exceptions:} \\ \text{LOT CBAK} &= \text{TEEIBAK} - \text{ESTCBAK} \\ \text{LOT CBHI} &= \text{TEEIBHI} - \text{ESTCBHI} \\ \text{LOT CBUS} &= \text{TEEIBUS} - \text{ESTCBUS} \\ \text{LOT CB48} &= \text{LOT CBUS} - (\text{LOT CBAK} + \text{LOT CBHI}) \end{aligned}$$

$$\begin{aligned} \text{LUACBZZ} &= \text{LUACPZZ} * 6.065 \\ \text{LUACBUS} &= \Sigma \text{LUACBZZ} \end{aligned}$$

$$\begin{aligned} \text{LUACPZZ} &= (\text{LUTRPZZ} / \text{LUTTPZZ}) * \text{LUTCPZZ} \\ \text{LUACPUS} &= \Sigma \text{LUACPZZ} \end{aligned}$$

$$\begin{aligned} \text{LUICBZZ} &= \text{LUICPZZ} * 6.065 \\ \text{LUICBUS} &= \Sigma \text{LUICBZZ} \end{aligned}$$

$$\begin{aligned} \text{LUICPZZ} &= (\text{LUINPZZ} / \text{LUTTPZZ}) * \text{LUTCPZZ} \\ \text{LUICPUS} &= \Sigma \text{LUICPZZ} \end{aligned}$$

$$\begin{aligned} \text{LUINPZZ} &\text{ is independent.} \\ \text{LUINPUS} &= \Sigma \text{LUINPZZ} \end{aligned}$$

$$\begin{aligned} \text{LUTCBZZ} &= \text{LUICBZZ} + \text{LUACBZZ} \\ \text{LUTCBUS} &= \Sigma \text{LUTCBZZ} \end{aligned}$$

$$\begin{aligned} \text{LUTCPZZ} &= (\text{LUTTPZZ} / \text{LUTTPUS}) * \text{LUTCPUS} \\ \text{LUTCPUS} &\text{ is independent.} \end{aligned}$$

$$\begin{aligned} \text{LUTRPZZ} &\text{ is independent.} \\ \text{LUTRPUS} &= \Sigma \text{LUTRPZZ} \end{aligned}$$

$$\begin{aligned} \text{LUTTPZZ} &= \text{LUINPZZ} + \text{LUTRPZZ} \\ \text{LUTTPUS} &= \Sigma \text{LUTTPZZ} \end{aligned}$$

$$\begin{aligned} \text{MBICBZZ} &= \text{MBTCBZZ} \\ \text{MBICBUS} &= \text{MBTCBUS} \end{aligned}$$

$$\begin{aligned} \text{MBICPZZ} &= \text{MBTCPZZ} \\ \text{MBICPUS} &= \text{MBTCPUS} \end{aligned}$$

$$\begin{aligned} \text{MBTCBZZ} &= \text{MBTCPZZ} * 5.253 \\ \text{MBTCBUS} &= \Sigma \text{MBTCBZZ} \end{aligned}$$

LOT CB	Total electrical system energy losses.	Billion Btu
LUACB	Lubricants consumed by the transportation sector.	Billion Btu
LUACP	Lubricants consumed by the transportation sector.	Thousand barrels
LUICB	Lubricants consumed by the industrial sector.	Billion Btu
LUICP	Lubricants consumed by the industrial sector.	Thousand barrels
LUINP	Lubricants sold to the industrial sector.	Thousand barrels
LUTCB	Lubricants total consumed.	Billion Btu
LUTCP	Lubricants total consumed.	Thousand barrels
LUTRP	Lubricants sold to the transportation sector.	Thousand barrels
LUTTP	Lubricants total sold.	Thousand barrels
MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu
MBICP	Motor gasoline blending components consumed by the industrial sector.	Thousand barrels
MBTCB	Motor gasoline blending components total consumed.	Billion Btu

MBTCP	Motor gasoline blending components total consumed.	Thousand barrels	$MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS$ MBTCPUS is independent.
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	$MGACBZZ = MGACPZZ * MGTCKUS$ $MGACBUS = \Sigma MGACBZZ$
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	$MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ$ $MGACPUS = \Sigma MGACPZZ$
MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. $MGAGPUS = \Sigma MGAGPZZ$
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	$MGCCBZZ = MGCCPZZ * MGTCKUS$ $MGCCBUS = \Sigma MGCCBZZ$
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	$MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ$ $MGCCPUS = \Sigma MGCCPZZ$
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	$MGCMPZZ = MGMPZZ + MGNPZZ$ $MGCMPUS = \Sigma MGCMPZZ$
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCPZZ is independent. $MGCUPUS = \Sigma MGCUPZZ$
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	$MGICBZZ = MGICPZZ * MGTCKUS$ $MGICBUS = \Sigma MGICBZZ$
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	$MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ$ $MGICPUS = \Sigma MGICPZZ$
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	$MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ$ $MGINPUS = \Sigma MGINPZZ$
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent $MGIYPUS = \Sigma MGIYPZZ$
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. $MGMFPUS = \Sigma MGMFPZZ$
MGMRP	Motor gasoline sold for marine use.	Thousand gallons	MGMRPZZ is independent. $MGMRPUS = \Sigma MGMRPZZ$
MGMSP	Motor gasoline sold for miscellaneous and unclassified uses.	Thousand gallons	MGMSPZZ is independent. $MGMSPUS = \Sigma MGMSPZZ$

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MGPNP	Motor gasoline sold for public nonhighway use.	Thousand gallons	MGPNPZZ is independent. MGPNPUS = $\Sigma$ MGPNPZZ
MGSFP	Motor gasoline special fuels sold (primarily diesel fuel with small amounts of liquefied petroleum gases).	Thousand gallons	MGSFPZZ is independent. MGSFPUS = $\Sigma$ MGSFPZZ
MGTCB	Motor gasoline total consumed.	Billion Btu	MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ MGTCBUS = $\Sigma$ MGTCBZZ
MGTCP	Motor gasoline total consumed.	Thousand barrels	MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCBUS MGTCPUS is independent.
MGTCBUS	Factor for converting motor gasoline from physical units to Btu.	Million Btu per barrel	MGTCBUS is independent.
MGTRP	Motor gasoline sold to the transportation sector.	Thousand gallons	MGTRPZZ = MGMFPZZ + MGMRPZZ - MGSFPZZ MGTRPUS = $\Sigma$ MGTRPZZ
MGTTP	Motor gasoline total sold.	Thousand gallons	MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ MGTTPUS = $\Sigma$ MGTTPZZ
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	Billion Btu	MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS
MSICP	Miscellaneous petroleum products consumed by the industrial sector.	Thousand barrels	MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS
MSTCB	Miscellaneous petroleum products total consumed.	Billion Btu	MSTCBZZ = MSTCPZZ * 5.796 MSTCBUS = $\Sigma$ MSTCBZZ
MSTCP	Miscellaneous petroleum products total consumed.	Thousand barrels	MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS MSTCPUS is independent.
NAICB	Natural gasoline consumed by the industrial sector.	Billion Btu	NAICBZZ = NATCBZZ NAICBUS = NATCBUS
NAICP	Natural gasoline consumed by the industrial sector.	Thousand barrels	NAICPZZ = NATCPZZ NAICPUS = NATCPUS
NATCB	Natural gasoline total consumed.	Billion Btu	NATCBZZ = NATCPZZ * 4.620 NATCBUS = $\Sigma$ NATCBZZ
NATCP	Natural gasoline total consumed.	Thousand barrels	NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS NATCPUS is independent.

NGACB	Natural gas consumed by the transportation sector.	Billion Btu	NGACBZZ = NGACPZZ * NGTXKZZ NGACBUS = ΣNGACBZZ
NGACP	Natural gas consumed by the transportation sector.	Million cubic feet	NGACPZZ = NGPZPZZ + NGVHPZZ NGACPUS = ΣNGACPZZ
NGCCB	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGCCBZZ = NGCCPZZ * NGTXKZZ NGCCBUS = ΣNGCCBZZ
NGCCP	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGCCPZZ is independent. NGCCPUS = ΣNGCCPZZ
NGEIB	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Billion Btu	NGEIBZZ = NGEIPZZ * NGEIKZZ NGEIBUS = ΣNGEIBZZ
NGEIK	Factor for converting natural gas consumed by the electric power sector from physical units to Btu.	Thousand Btu per cubic foot	NGEIKZZ is independent. NGEIKUS = NGEIBUS / NGEIPUS
NGEIP	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Million cubic feet	NGEIPZZ is independent. NGEIPUS = ΣNGEIPZZ
NGICB	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Billion Btu	NGICBZZ = NGICPZZ * NGTXKZZ NGICBUS = ΣNGICBZZ
NGICP	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Million cubic feet	NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ NGICPUS = ΣNGICPZZ
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = ΣNGINPZZ
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = ΣNGLEPZZ
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	NGLPBZZ = NGLPPZZ * NGTXKZZ NGLPBUS = ΣNGLPBZZ
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPPUS = ΣNGLPPZZ
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = ΣNGPLPZZ
NGPZB	Natural gas consumed as pipeline fuel.	Billion Btu	NGPZBZZ = NGPZPZZ * NGTXKZZ NGPZBUS = ΣNGPZBZZ

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NGPZP	Natural gas consumed as pipeline fuel.	Million cubic feet	NGPZPZZ is independent. NGPZPUS = $\Sigma$ NGPZPZZ
NGRCB	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGRCBZZ = NGRCPZZ * NGTXKZZ NGRCBUS = $\Sigma$ NGRCBZZ
NGRCP	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGRCPZZ is independent. NGRCPUS = $\Sigma$ NGRCPZZ
NGSFP	Supplemental gaseous fuels supplies.	Million cubic feet	NGSFPZZ is independent. NGSFPUS = $\Sigma$ NGSFPZZ
NGTCB	Natural gas total consumed (including supplemental gaseous fuels).	Billion Btu	NGTCBZZ = NGTCPZZ * NGTCKZZ NGTCBUS = $\Sigma$ NGTCBZZ
NGTCK	Factor for converting natural gas total consumed from physical units to Btu.	Thousand Btu per cubic foot	NGTCKZZ is independent. NGTCKUS = NGTCBUS / NGTCPUS
NGTCP	Natural gas total consumed (including supplemental gaseous fuels).	Million cubic feet	NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEIPZZ NGTCPUS = $\Sigma$ NGTCPZZ
NGTXK	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	NGTXKZZ = (NGTCBZZ - NGEIBZZ) / (NGTCPZZ - NGEIPZZ) NGTXKUS = (NGTCBUS - NGEIBUS) / (NGTCPUS - NGEIPUS)
NGTZP	Natural gas consumed in sectors that have supplemental gaseous fuels commingled with natural gas.	Million cubic feet	NGTZPZZ = NGCCPZZ + NGRCPZZ + NGINPZZ + NGEIPZZ NGTZPUS = $\Sigma$ NGTZPZZ
NGVHB	Natural gas consumed as vehicle fuel.	Billion Btu	NGVHBZZ = NGVHPZZ * NGTXKZZ NGVHBUS = $\Sigma$ NGVHBZZ
NGVHP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVHPZZ is independent. NGVHPUS = $\Sigma$ NGVHPZZ
NNACB	Natural gas consumed by the transportation sector.	Billion Btu	NNACBZZ = NGACBZZ NNACBUS = $\Sigma$ NNACBZZ
NNCCB	Natural gas consumed by the commercial sector (excluding supplemental gaseous fuels).	Billion Btu	NNCCBZZ = NGCCBZZ - SFCCBZZ NNCCBUS = $\Sigma$ NNCCBZZ

NNEIB	Natural gas consumed by the electric power sector (excluding supplemental gaseous fuels).	Billion Btu	NNEIBZZ = NGEIBZZ – SFEIBZZ NNEIBUS = ΣNNEIBZZ
NNICB	Natural gas consumed by the industrial sector (excluding supplemental gaseous fuels).	Billion Btu	NNICBZZ = NGICBZZ – SFINBZZ NNICBUS = ΣNNICBZZ
NNRCB	Natural gas consumed by the residential sector (excluding supplemental gaseous fuels).	Billion Btu	NNRCBZZ = NGRCBZZ – SFRCBZZ NNRCBUS = ΣNNRCBZZ
NNTCB	Natural gas total consumed (excluding supplemental gaseous fuels).	Billion Btu	NNTCBZZ = NGTCBZZ – SFTCBZZ NNTCBUS = ΣNNTCBZZ
NUEGB	Electricity produced from nuclear power in the electric power sector.	Billion Btu	NUEGBZZ = NUEGPZZ * NUETKUS NUEGBUS = ΣNUEGBZZ
NUEGP	Electricity produced from nuclear power in the electric power sector.	Million kilowatthours	NUEGPZZ is independent. NUEGPUS = ΣNUEGPZZ
NUETB	Electricity total produced from nuclear power.	Billion Btu	NUETBZZ = NUEGBZZ NUETBUS = ΣNUETBZZ
NUETKUS	Factor for converting electricity produced from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUETKUS is independent.
NUETP	Electricity total produced from nuclear power.	Million kilowatthours	NUETPZZ = NUEGPZZ NUETPUS = ΣNUETPZZ
OCVAV	Value added in manufacture of industrial organic chemicals.	Million dollars	OCVAVZZ is independent. OCVAVUS = ΣOCVAVZZ
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ PAACBUS = ΣPAACBZZ
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 + JKACPZZ + JNACPZZ + LGACPZZ + LUACPZZ + MGACPZZ + RFACPZZ PAACPUS = ΣPAACPZZ
PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	PACCBZZ = DFCCBZZ + KSCCBZZ + LGCCBZZ + MGCCBZZ + PCCCBZZ + RFCCBZZ

PACCKUS	Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu.	Million Btu per barrel	$PACCBUS = \Sigma PACCBZZ$ $PACCKUS = PACCBUS / PACCPUS$
PACCP	All petroleum products consumed by the commercial sector.	Thousand barrels	$PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + PCCCPZZ + RFCCPZZ$ $PACCPUS = \Sigma PACCPZZ$
PAEIB	All petroleum products consumed by the electric power sector.	Billion Btu	$PAEIBZZ = DFEIBZZ + JKEUBZZ + PCEIBZZ + RFEIBZZ$ $PAEIBUS = \Sigma PAEIBZZ$
PAEIKUS	Factor for converting all petroleum products consumed by the electric power sector from physical units to Btu.	Million Btu per barrel	$PAEIKUS = PAEIBUS / PAEIPUS$
PAEIP	All petroleum products consumed by the electric power sector.	Thousand barrels	$PAEIPZZ = DFEIPZZ + JKEUPZZ + PCEIPZZ + RFEIPZZ$ $PAEIPUS = \Sigma PAEIPZZ$
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	$PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ$ $PAICBUS = \Sigma PAICBZZ$
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	$PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ$ $PAICPUS = \Sigma PAICPZZ$

PARCB	All petroleum products consumed by the residential sector.	Billion Btu	PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ PARCBUS = ΣPARCBZZ
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 PARCPUS = ΣPARCPZZ
PATCB	All petroleum products consumed by all sectors.	Billion Btu	PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ PATCBUS = ΣPATCBZZ
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 + KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ + RFTCPZZ + POTCPZZ PATCPUS = ΣPATCPZZ
PCC3M	Petroleum coke consumed for combined heat and power in the commercial sector.	Thousand tons	PCC3MZZ is independent. PCC3MUS = ΣPCC3MZZ
PCCCB	Petroleum coke consumed for combined heat and power in the commercial sector.	Billion Btu	PCCCBZZ = PCCCPZZ * 6.024 PCCCBUS = ΣPCCCBZZ
PCCCP	Petroleum coke consumed for combined heat and power in the commercial sector.	Thousand barrels	PCCCPZZ = PCC3MZZ * 5 PCCCPUS = ΣPCCCPZZ
PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	PCEIBZZ = PCEIPZZ * 6.024 PCEIBUS = ΣPCEIBZZ
PCEIM	Petroleum coke consumed by the electric power sector.	Thousand tons	PCEIMZZ is independent. PCEIMUS = ΣPCEIMZZ
PCEIP	Petroleum coke consumed by the electric power sector.	Thousand barrels	PCEIPZZ = PCEIMZZ * 5 PCEIPUS = ΣPCEIPZZ
PCI3B	Petroleum coke consumed for combined heat and power in the industrial sector.	Billion Btu	PCI3BZZ = PCI3PZZ * 6.024 PCI3BUS = ΣPCI3BZZ

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PCI3M	Petroleum coke consumed for combined heat and power in the industrial sector.	Thousand tons	PCI3MZZ is independent. PCI3MUS = $\Sigma$ PCI3MZZ
PCI3P	Petroleum coke consumed for combined heat and power in the industrial sector.	Thousand barrels	PCI3PZZ = PCI3MZZ * 5 PCI3PUS = $\Sigma$ PCI3PZZ
PCICB	Petroleum coke consumed in the industrial sector.	Billion Btu	PCICBZZ = PCICPZZ * 6.024 PCICBUS = $\Sigma$ PCICBZZ
PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	PCICPZZ = PCI3PZZ + PCRFPZZ + PCOCPZZ PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS
PCOCB	Petroleum coke consumed in the industrial sector other than for refinery use and combined heat and power.	Billion Btu	PCOCBZZ = PCOCPZZ * 6.024 PCOCBUS = $\Sigma$ PCOCBZZ
PCOCP	Petroleum coke consumed in the industrial sector other than for refinery use and combined heat and power.	Thousand barrels	PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS PCOCPUS = PCICPUS - PCI3PUS - PCRFPUS
PCRFB	Petroleum coke used at refineries as both catalytic and marketable coke.	Billion Btu	PCRFBZZ = PCRFPZZ * 6.024 PCRFBUS = $\Sigma$ PCRFBZZ
PCRFP	Petroleum coke used at refineries as both catalytic and marketable coke.	Thousand barrels	PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ or (CTCAPZZ / CTCAPPZ) * PCRFPZZ or is independent. PCRFPUS is independent.
PCTCB	Petroleum coke total consumed.	Billion Btu	PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ PCTCBUS = $\Sigma$ PCTCBZZ
PCTCP	Petroleum coke total consumed.	Thousand barrels	PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ PCTCPUS is independent.
PIVAV	Value added in the manufacture of paints and allied products.	Million dollars	PIVAVZZ is independent. PIVAVUS = $\Sigma$ PIVAVZZ
PLICB	Plant condensate consumed by the industrial sector.	Billion Btu	PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS
PLICP	Plant condensate consumed by the industrial sector.	Thousand barrels	PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS

PLTCB	Plant condensate total consumed.	Billion Btu	$PLTCBZZ = PLTCPZZ * 5.418$ $PLTCBUS = \Sigma PLTCBZZ$
PLTCP	Plant condensate total consumed.	Thousand barrels	$PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS$ PLTCPUS is independent.
POICB	Other petroleum products consumed by the industrial sector.	Billion Btu	$POICBZZ = ABICBZZ + COICBZZ +$ $FNICBZZ + FOICBZZ + FSICBZZ +$ $MBICBZZ + MSICBZZ + NAICBZZ +$ $PCICBZZ + PLICBZZ + PPICBZZ +$ $SGICBZZ + SNICBZZ + UOICBZZ +$ $USICBZZ + WXICBZZ$ $POICBUS = \Sigma POICBZZ$
POICP	Other petroleum products consumed by the industrial sector.	Thousand barrels	$POICPZZ = ABICPZZ + COICPZZ +$ $FNICPZZ + FOICPZZ + FSICPZZ +$ $MBICPZZ + MSICPZZ + NAICPZZ +$ $PCICPZZ + PLICPZZ + PPICPZZ +$ $SGICPZZ + SNICPZZ + UOICPZZ +$ $USICPZZ + WXICPZZ$ $POICPUS = \Sigma POICPZZ$
POTCB	Other petroleum products total consumed.	Billion Btu	$POTCBZZ = ABTCBZZ + COTCBZZ +$ $FNTCBZZ + FOTCBZZ + FSTCBZZ +$ $MBTCBZZ + MSTCBZZ + NATCBZZ +$ $PCTCBZZ + PLTCBZZ + PPTCBZZ +$ $SGTCBZZ + SNTCBZZ + UOTCBZZ +$ $USTCBZZ + WXTCBZZ$ $POTCBUS = \Sigma POTCBZZ$
POTCP	Other petroleum products total consumed.	Thousand barrels	$POTCPZZ = ABTCPZZ + COTCPZZ +$ $FNTCPZZ + FOTCPZZ + FSTCPZZ +$ $MBTCPZZ + MSTCPZZ + NATCPZZ +$ $PCTCPZZ + PLTCPZZ + PPTCPZZ +$ $SGTCPZZ + SNTCPZZ + UOTCPZZ +$ $USTCPZZ + WXTCPZZ$ $POTCPUS = \Sigma POTCPZZ$
PPICB	Pentanes plus consumed by the industrial sector.	Billion Btu	$PPICBZZ = PPTCBZZ$ $PPICBUS = PPTCBUS$
PPICP	Pentanes plus consumed by the industrial sector.	Thousand barrels	$PPICPZZ = PPTCPZZ$ $PPICPUS = PPTCPUS$
PPTCB	Pentanes plus total consumed.	Billion Btu	$PPTCBZZ = PPTCPZZ * 4.620$ $PPTCBUS = \Sigma PPTCBZZ$

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PPTCP	Pentanes plus total consumed.	Thousand barrels	$PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS$ PPTCPUS is independent.
RDICP	Road oil consumed by the industrial sector.	Thousand barrels	$RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS$ $RDICPUS = \Sigma RDICPZZ$
RDINP	Road oil sold to the industrial sector.	Short tons	RDINPZZ is independent. $RDINPUS = \Sigma RDINPZZ$
RDTCP	Road oil total consumed.	Thousand barrels	$RDTCPZZ = RDICPZZ$ RDTCPUS is independent.
REACB	Renewable energy sources consumed by the transportation sector.	Billion Btu	$REACBZZ = ENACBZZ$ $REACBUS = ENACBUS$
RECCB	Renewable energy sources consumed by the commercial sector.	Billion Btu	$RECCBZZ = GECCBZZ + HYCCBZZ + WWCCBZZ$ $RECCBUS = GECCBUS + HYCCBUS + WWCCBUS$
REEIB	Renewable energy sources consumed by the electric power sector.	Billion Btu	$REEIBZZ = HVEGBZZ + GEEGBZZ + SOEGBZZ +$ $WWEIBZZ + WYEGBZZ$ $REEIBUS = HVENGBUS + GEEGBUS + SOEGBUS +$ $WWEIBUS + WNEGBUS$
REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	$REICBZZ = GEICBZZ + HVICBZZ + WWICBZZ$ $REICBUS = GEICBUS + HVICBUS + WWICBUS$
RERCB	Renewable energy sources consumed by the residential sector.	Billion Btu	$RERCBZZ = WDRCBZZ + GERCBZZ + SOHCBZZ$ $RERCBUS = WDRCBUS + GERCBUS + SOHCBUS$
RETCB	Renewable energy sources total consumed.	Billion Btu	$RETCBZZ = RERCBZZ + RECCBZZ + REICBZZ +$ $REACBZZ + REEIBZZ$ $RETCBUS = RERCBUS + RECCBUS + REICBUS +$ $REACBUS + REEIBUS$
RFACB	Residual fuel oil consumed by the transportation sector.	Billion Btu	$RFACBZZ = RFACPZZ * 6.287$ $RFACBUS = \Sigma RFACBZZ$
RFACP	Residual fuel oil consumed by the transportation sector.	Thousand barrels	$RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ$ $RFACPUS = \Sigma RFACPZZ$
RFBKP	Residual fuel oil sold for vessel bunkering use, excluding deliveries to the Armed Forces.	Thousand barrels	RFBKPZZ is independent. $RFBKPUS = \Sigma RFBKPZZ$
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	$RFCCBZZ = RFCCPZZ * 6.287$ $RFCCBUS = \Sigma RFCCBZZ$

RFCCP	Residual fuel oil consumed by the commercial sector.	Thousand barrels	$RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ$ $RFCCPUS = \Sigma RFCCPZZ$
RFCMP	Residual fuel oil sold to the commercial sector.	Thousand barrels	$RFCMPZZ$ is independent. $RFCMPUS = \Sigma RFCMPZZ$
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	$RFEIBZZ = RFEIPZZ * 6.287$ $RFEIBUS = \Sigma RFEIBZZ$
RFEIP	Residual fuel oil consumed by the electric power sector.	Thousand barrels	$RFEIPZZ$ is independent. $RFEIPUS = \Sigma RFEIPZZ$
RFIBP	A portion of residual fuel oil sold for industrial use, including industrial space heating.	Thousand barrels	$RFIBPZZ$ is independent. $RFIBPUS = \Sigma RFIBPZZ$
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	$RFICBZZ = RFICPZZ * 6.287$ $RFICBUS = \Sigma RFICBZZ$
RFICP	Residual fuel oil consumed by the industrial sector.	Thousand barrels	$RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ$ $RFICPUS = \Sigma RFICPZZ$
RFINP	Residual fuel oil sold to the industrial sector.	Thousand barrels	$RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ$ $RFINPUS = \Sigma RFINPZZ$
RFMIP	Residual fuel oil sold to the Armed Forces, regardless of use.	Thousand barrels	$RFMIPZZ$ is independent. $RFMIPUS = \Sigma RFMIPZZ$
RFMSP	Residual fuel oil sold for miscellaneous uses.	Thousand barrels	$RFMSPZZ$ is independent. $RFMSPUS = \Sigma RFMSPZZ$
RFNCP	Residual fuel oil consumption by all sectors other than the electric utility sector.	Thousand barrels	$RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS$ $RFNCPUS = RFTCPUS - RFEIPUS$
RFNDP	Residual fuel oil sold to all sectors other than the electric utility sector.	Thousand barrels	$RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ$ $RFNDPUS = \Sigma RFNDPZZ$
RFOCP	Residual fuel oil sold for use by oil companies.	Thousand barrels	$RFOCPZZ$ is independent. $RFOCPUS = \Sigma RFOCPZZ$
RFRRP	Residual fuel oil sold for use by railroads.	Thousand barrels	$RFRRPZZ$ is independent. $RFRRPUS = \Sigma RFRRPZZ$
RFTCB	Residual fuel oil total consumed.	Billion Btu	$RFTCBZZ = RFCCBZZ + RFICBZZ +$ $RFACBZZ + RFEIBZZ$ $RFTCBUS = \Sigma RFTCBZZ$

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RFTCP	Residual fuel oil total consumed.	Thousand barrels	$RFTCPZZ = RFNCPZZ + RFEIPZZ$ RFTCPUS is independent.
RFTRP	Residual fuel oil sold to the transportation sector.	Thousand barrels	$RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ$ $RFTRPUS = \Sigma RFTRPZZ$
SFCCB	Supplemental gaseous fuels consumed by the commercial sector.	Billion Btu	$SFCCBZZ = SFCCPZZ * NGTXKZZ$ $SFCCBUS = \Sigma SFCCBZZ$
SFCCP	Supplemental gaseous fuels consumed by the commercial sector.	Million cubic feet	$SFCCPZZ = NGSFPZZ * (NGCCPZZ / NGTZPZZ)$ $SFCCPUS = \Sigma SFCCPZZ$
SFEIB	Supplemental gaseous fuels consumed by the electric power sector.	Billion Btu	$SFEIBZZ = SFEIPZZ * NGEIKZZ$ $SFEIBUS = \Sigma SFEIBZZ$
SFEIP	Supplemental gaseous fuels consumed by the electric power sector.	Million cubic feet	$SFEIPZZ = NGSFPZZ * (NGEIPZZ / NGTZPZZ)$ $SFEIPUS = \Sigma SFEIPZZ$
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	$SFINBZZ = SFINPZZ * NGTXKZZ$ $SFINBUS = \Sigma SFINBZZ$
SFINP	Supplemental gaseous fuels consumed by the industrial sector.	Million cubic feet	$SFINPZZ = NGSFPZZ * (NGINPZZ / NGTZPZZ)$ $SFINPUS = \Sigma SFINPZZ$
SFRCB	Supplemental gaseous fuels consumed by the residential sector.	Billion Btu	$SFRCBZZ = SFRCPZZ * NGTXKZZ$ $SFRCBUS = \Sigma SFRCBZZ$
SFRCP	Supplemental gaseous fuels consumed by the residential sector.	Million cubic feet	$SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ)$ $SFRCPUS = \Sigma SFRCPZZ$
SFTCB	Supplemental gaseous fuels total consumed.	Billion Btu	$SFTCBZZ = SFCCBZZ + SFINBZZ + SFRCBZZ + SFEIBZZ$ $SFTCBUS = \Sigma SFTCBZZ$
SFTCP	Supplemental gaseous fuels total consumed.	Million cubic feet	$SFTCPZZ = SFCCPZZ + SFINPZZ + SFRCPZZ + SFEIPZZ$ $SFTCPUS = \Sigma SFTCPZZ$
SGICB	Still gas consumed by the industrial sector.	Billion Btu	$SGICBZZ = SGTCBZZ$ $SGICBUS = SGTCBUS$
SGICP	Still gas consumed by the industrial sector.	Thousand barrels	$SGICPZZ = SGTCPZZ$ $SGICPUS = SGTCPUS$
SGTCB	Still gas total consumed.	Billion Btu	$SGTCBZZ = SGTCPZZ * 6.000$ $SGTCBUS = \Sigma SGTCBZZ$

SGTCP	Still gas total consumed.	Thousand barrels	$SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS$ SGTCPUS is independent.
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	$SNICBZZ = SNTCBZZ$ $SNICBUS = SNTCBUS$
SNICP	Special naphthas consumed by the industrial sector.	Thousand barrels	$SNICPZZ = SNTCPZZ$ $SNICPUS = SNTCPUS$
SNTCB	Special naphthas total consumed.	Billion Btu	$SNTCBZZ = SNTCPZZ * 5.248$ $SNTCBUS = \Sigma SNTCBZZ$
SNTCP	Special naphthas total consumed.	Thousand barrels	$SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS$ SNTCPUS is independent.
SOEGB	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Billion Btu	$SOEGBZZ = SOEGPZZ * FFETKUS$ $SOEGBUS = \Sigma SOEGBZZ$
SOEGP	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Million kilowatthours	SOEGPZZ is independent. $SOEGPUS = \Sigma SOEGPZZ$
SOHCB	Solar thermal energy consumed by the residential and commercial sectors.	Billion Btu	$SOHCBZZ = (SOTTPZZ / SOTTPUS) * SOHCBUS$ SOHCBUS is independent.
SOTCB	Photovoltaic and solar thermal energy sources total consumed.	Billion Btu	$SOTCBZZ = SOHCBZZ + SOEGBZZ$ $SOTCBUS = \Sigma SOTCBZZ$
SOTTP	Shipments of solar thermal collectors.	Square feet	SOTTPZZ is independent. $SOTTPUS = \Sigma SOTTPZZ$
TEACB	Total energy consumed by the transportation sector.	Billion Btu	$TEACBZZ = CLACBZZ + NGACBZZ + PAACBZZ + ESACBZZ + LOACBZZ$ $TEACBUS = CLACBUS + NGACBUS + PAACBUS + ESACBUS + LOACBUS$
TEAPB	The transportation sector's energy consumption per capita.	Million Btu	$TEAPBZZ = TEACBZZ / TPOPPZZ$ $TEAPBUS = TEACBUS / TPOPPUS$
TECCB	Total energy consumed by the commercial sector.	Billion Btu	$TECCBZZ = CLCCBZZ + NGCCBZZ + PACCBZZ + HYCCBZZ + WWCCBZZ + GECCBZZ + ESCCBZZ + LOCCBZZ - SFCCBZZ$ $TECCBUS = CLCCBUS + NGCCBUS + PACCBUS + HYCCBUS + WWCCBUS + GECCBUS + ESCCBUS + LOCCBUS - SFCCBUS$
TECPB	The commercial sector's energy consumption per capita.	Million Btu	$TECPBZZ = TECCBZZ / TPOPPZZ$ $TECPBUS = TECCBUS / TPOPPUS$

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TEEIB	Total energy consumed by the electric power sector plus net imports of electricity into the United States.	Billion Btu	$\begin{aligned} \text{TEEIBZZ} &= \text{CLEIBZZ} + \text{NGEIBZZ} + \text{PAEIBZZ} + \\ &\text{HYEGBZZ} + \text{NUEGBZZ} + \text{GEEGBZZ} + \\ &\text{WWEIBZZ} + \text{WNEGBZZ} + \text{ELNIBZZ} - \\ &\text{SFEIBZZ} \\ \text{TEEIBUS} &= \Sigma \text{TEEIBZZ} \end{aligned}$
TEICB	Total energy consumed by the industrial sector.	Billion Btu	$\begin{aligned} \text{TEICBZZ} &= \text{CLICBZZ} + \text{NGICBZZ} + \text{PAICBZZ} + \\ &\text{HYICBZZ} + \text{WDICBZZ} + \text{WSICBZZ} + \\ &\text{GEICBZZ} + \text{ESICBZZ} + \text{LOICBZZ} - \\ &\text{SFINBZZ} \\ \text{TEICBUS} &= \text{CLICBUS} + \text{CCNIBUS} + \text{NGICBUS} + \\ &\text{PAICBUS} + \text{HYICBUS} + \text{WDICBUS} + \\ &\text{WSICBUS} + \text{GEICBUS} + \text{ESICBUS} + \\ &\text{LOICBUS} + \text{ENLCBUS} - \text{SFINBUS} \end{aligned}$
TEIPB	The industrial sector's energy consumption per capita.	Million Btu	$\begin{aligned} \text{TEIPBZZ} &= \text{TEICBZZ} / \text{TPOPPZZ} \\ \text{TEIPBUS} &= \text{TEICBUS} / \text{TPOPPUS} \end{aligned}$
TERCB	Total energy consumed by the residential sector.	Billion Btu	$\begin{aligned} \text{TERCBZZ} &= \text{CLRCBZZ} + \text{NGRCBZZ} + \\ &\text{PARCBZZ} + \text{WDRCBZZ} + \\ &\text{GERCBZZ} + \text{SOHCBZZ} + \text{ESRCBZZ} + \\ &\text{LORCBZZ} - \text{SFRCBZZ} \\ \text{TERCBUS} &= \text{CLRCBUS} + \text{NGRCBUS} + \\ &\text{PARCBUS} + \text{WDRCBUS} + \\ &\text{GERCBUS} + \text{SOHCBUS} + \text{ESRCBUS} + \\ &\text{LORCBUS} - \text{SFRCBUS} \end{aligned}$
TERPB	The residential sector's energy consumption per capita.	Million Btu	$\begin{aligned} \text{TERPBZZ} &= \text{TERCBZZ} / \text{TPOPPZZ} \\ \text{TERPBUS} &= \text{TERCBUS} / \text{TPOPPUS} \end{aligned}$
TESSB	Total energy consumed (sum of the four end-use sectors). Cross-check not used in SEDS.	Billion Btu	$\begin{aligned} \text{TESSBZZ} &= \text{TERCBZZ} + \text{TECCBZZ} + \text{TEICBZZ} + \\ &\text{TEACBZZ} \\ \text{TESSBUS} &= \text{TERCBUS} + \text{TECCBUS} + \text{TEICBUS} + \\ &\text{TEACBUS} \end{aligned}$
TETCB	Total energy consumed (sum of all	Billion Btu	$\begin{aligned} \text{TETCBZZ} &= \text{CLTCBZZ} + \text{NGTCBZZ} + \text{PATCBZZ} + \\ &\text{NUETBZZ} + \text{HYTCBZZ} + \text{WDTCBZZ} + \\ &\text{WSTCBZZ} + \text{GETCBZZ} + \text{SOTCBZZ} + \\ &\text{WYTCBZZ} + \text{ELNIBZZ} + \text{ELISBZZ} - \\ &\text{SFTCBZZ} \\ \text{TETCBUS} &= \text{CLTCBUS} + \text{CCNIBUS} + \text{NGTCBUS} + \\ &\text{PATCBUS} + \text{NUETBUS} + \text{HYTCBUS} + \\ &\text{WDTCBUS} + \text{WSTCBUS} + \text{GETCBUS} + \\ &\text{SOTCBUS} + \text{WYTCBUS} + \text{ELNIBUS} + \\ &\text{ENLCBUS} - \text{SFTCBUS} \end{aligned}$

TETGR	Total energy consumed per dollar of real gross domestic product.	Thousand Btu per chained (2000) dollar	TETGRZZ = TETCBZZ / GDPRXZZ TETGRUS = TETCBUS / GDPRXUS
TETPB	Total energy consumption per capita.	Million Btu	TETPBZZ = TETCBZZ / TPOPPZZ 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 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 TNCCBUS = TECCBUS - LOCCBUS
TNICB	Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNICBZZ = TEICBZZ - LOICBZZ 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 TNRCBUS = TERCBUS - LORCBUS
TPOPP	The resident population including the Armed Forces residing in each State.	Thousand	TPOPPZZ is independent. TPOPPUS is independent.
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS
UOICP	Unfinished oils consumed by the industrial sector.	Thousand barrels	UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS
UOTCB	Unfinished oils total consumed.	Billion Btu	UOTCBZZ = UOTCPZZ * 5.825 UOTCBUS = ΣUOTCBZZ
UOTCP	Unfinished oils total consumed.	Thousand barrels	UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS UOTCPUS is independent.
USICB	Unfractionated stream consumed by the industrial sector.	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated stream consumed by the industrial sector.	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS
USTCB	Unfractionated stream total consumed.	Billion Btu	USTCBZZ = USTCPZZ * 5.418 USTCBUS = ΣUSTCBZZ

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USTCP	Unfractionated stream total consumed.	Thousand barrels	$USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS$ USTCPUS is independent.
WDC3B	Wood consumed for combined heat and power in the commercial sector.	Billion Btu	WDC3BZZ is independent. $WDC3BUS = \Sigma WDC3BZZ$
WDC4B	Wood energy consumed for other uses in the commercial sector.	Billion Btu	$WDC4BZZ = (WDRCPZZ / WDRCPUS) * WDC4BUS$ $WDC4BUS = WDCCBUS - WDC3BUS$
WDCCB	Wood energy consumed by the commercial sector, total.	Billion Btu	$WDCCBZZ = WDC3BZZ + WDC4BZZ$ WDCCBUS is independent.
WDEIB	Wood consumed by the electric power sector.	Billion Btu	WDEIBZZ is independent. $WDEIBUS = \Sigma WDEIBZZ$
WDI3B	Wood consumed for combined heat and power in the industrial sector.	Billion Btu	WDI3BZZ is independent. $WDI3BUS = \Sigma WDI3BZZ$
WDI4B	Wood energy consumed for other uses in the industrial sector.	Billion Btu	WDI4BZZ is independent. $WDI4BUS = \Sigma WDI4BZZ$
WDICB	Wood energy consumed by the industrial sector, total.	Billion Btu	$WDICBZZ = WDI3BZZ + WDI4BZZ$ $WDICBUS = \Sigma WDICBZZ$
WDRCB	Wood energy consumed by the residential sector.	Billion Btu	$WDRCBZZ = WDRCPZZ * 20$ $WDRCBUS = \Sigma WDRCBZZ$
WDRCP	Wood energy consumed by the residential sector.	Thousand cords	WDRCPZZ is independent. $WDRCPUS = \Sigma WDRCPZZ$
WDTCB	Wood energy, total consumed.	Billion Btu	$WDTCBZZ = WDRCBZZ + WDCCBZZ +$ $WDICBZZ + WDEIBZZ$ $WDTCBUS = \Sigma WDTCBZZ$
WSC3B	Waste consumed for combined heat and power in the commercial sector.	Billion Btu	WSC3BZZ is independent. $WSC3BUS = \Sigma WSC3BZZ$
WSCCB	Waste consumed in the commercial sector, total.	Billion Btu	$WSCCBZZ = WSC3BZZ$ $WSCCBUS = \Sigma WSCCBZZ$
WSEIB	Waste consumed by the electric power sector.	Billion Btu	WSEIBZZ is independent. $WSEIBUS = \Sigma WSEIBZZ$
WSI3B	Waste consumed for combined heat and power in the industrial sector.	Billion Btu	WSI3BZZ is independent. $WSI3BUS = \Sigma WSI3BZZ$

WSI4B	Waste energy consumed for other uses in the industrial sector.	Billion Btu	WSI4BZZ is independent. WSI4BUS = $\Sigma$ WSI4BZZ
WSICB	Waste energy consumed by the industrial sector, total.	Billion Btu	WSICBZZ = WSI3BZZ + WSI4BZZ WSICBUS = $\Sigma$ WSICBZZ
WSTCB	Waste energy, total consumed.	Billion Btu	WSTCBZZ = WSCCBZZ + WSICBZZ + WSEIBZZ WSTCBUS = $\Sigma$ WSTCBZZ
WWCCB	Wood and waste consumed in the commercial sector.	Billion Btu	WWCCBZZ = WDCCBZZ + WSCCBZZ WWCCBUS = $\Sigma$ WWCCBZZ
WWEIB	Wood and waste consumed by the electric power sector.	Billion Btu	WWEIBZZ = WDEIBZZ + WSEIBZZ WWEIBUS = $\Sigma$ WWEIBZZ
WWI4B	Wood and waste consumed in manufacturing processes in the industrial sector.	Billion Btu	WWI4BZZ = WDI4BZZ + WSI4BZZ WWI4BUS = $\Sigma$ WWI4BZZ
WWICB	Wood and waste consumed in the industrial sector, total.	Billion Btu	WWICBZZ = WDICBZZ + WSICBZZ WWICBUS = $\Sigma$ WWICBZZ
WWTCB	Wood and waste total consumed.	Billion Btu	WWTCBZZ = WDTCBZZ + WSTCBZZ WWTCBUS = $\Sigma$ WWTCBZZ
WXICB	Waxes consumed by the industrial sector.	Billion Btu	WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS
WXICP	Waxes consumed by the industrial sector.	Thousand barrels	WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS
WXTCB	Waxes total consumed.	Billion Btu	WXTCBZZ = WXTCPZZ * 5.537 WXTCBUS = $\Sigma$ WXTCBZZ
WXTCP	Waxes total consumed.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.
WYEGB	Electricity produced from wind energy at electric power sector.	Billion Btu	WYEGBZZ = WYEGPZZ * FFETKUS WYEGBUS = $\Sigma$ WYEGBZZ
WYEGP	Electricity produced from wind energy at electric power sector.	Million kilowatthours	WYEGPZZ is independent. WYEGPUS = $\Sigma$ WYEGPZZ
WYTCB	Electricity produced from wind energy total produced.	Billion Btu	WYTCBZZ = WYEGBZZ WYTCBUS = $\Sigma$ WYTCBZZ