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tive (+) or negative (-) sign.

Currently, steam coal as raw material in the energy transformation sector is used only for auto-generation in coal mines (TSCO&AUT). In the future, however, it is possible that steam coal will be used in thermal power generation (TSCO&PUB) and in town gas plant (TSCO&TWG) which is now under construction. It is also possible that briquet manufacturing industry will begin. Considering these future possibilities, the equations in the energy transformation sector are expressed as follows:

Transformation to Electricity in Public Utility

$$EBC03R11 = -TSCO\&PUB + FSCO$$

Transformation to Electricity in Auto-Generation

$$EBC03R13 = -TSCO\&AUT + FSCO$$

Transformation to Town Gas

$$EBC03R14 = -TSCO\&TWG + FSCO$$

Transformation to Briquet

$$EBC03R16 = -TSCO\&BRQ + FSCO$$

Total of Energy Transformation Sector

$$EBC03R17 = EBC03R11 + EBC03R13 + EBC03R14 + EBC03R16$$

In the energy transformation sector, the negative (-) sign means input of primary energy as raw material and the positive (+) sign means output of manufactured energy (= secondary energy).

In the energy industry own-use sector, there is own-use in coal mine (HSCO&CMN) only. We added losses (LSCO) in this sector accepting the Indonesian counterparts' strong argument that there exist original statistics. Problems about losses will be discussed in detail later with statistical difference. Equations in the energy industry own-use sector are expressed as follows:

Own Use in Coal Mine

$$EBC03R27 = -HSCO\&CMN + FSCO$$

Losses

$$EBC03R28 = -LSCO + FSCO$$

Total of Energy Industry Own Use Sector

$$EBC03R29 = EBC03R27 + EBC03R28$$

In the final consumption sector, steam coal is currently used in ceramics and cements (CSCO&CAC), small wares and others (CSCO&SWO), and railways (CSCO&RLW), while, in the future, steam coal may be used in mining (CSCO&MIN). Thus equations of this sector are constructed as follows:

Final Energy Consumption in Ceramics and Cements

$$EBC03R44 = CSCO \& CAC + FSCO$$

Final Energy Consumption in Small Wares and Others

$$EBC03R48 = CSCO \& SWO + FSCO$$

Total of Final Energy Consumption in Manufacturing

$$EBC03R38 = EBC03R44 + EBC03R48$$

Final Energy Consumption in Mining

$$EBC03R36 = CSCO \& MIN + FSCO$$

Total of Final Energy Consumption in Industry Sector

$$EBC03R33 = EBC03R36 + EBC03R38$$

Final Energy Consumption in Railways

$$EBC03R55 = CSCO \& RLW + FSCO$$

Total of Final Energy Consumption in Transportation Sector

$$EBC03R52 = EBC03R55$$

Total of final energy consumption is the sum total of totals of industry sector, residential and commercial sector, transportation sector and other sectors (government, forces, etc.). However, since steam coal is not used in residential and commercial sector and other sectors, total of final energy consumption is reduced to the following equation:

Total of Final Energy Consumption

$$EBC03R32 = EBC03R33 + EBC03R52$$

The final consumption is then, obtained by adding raw material consumption in chemical industry and non-energy consumption to the final consumption explained above. However, as steam coal is not used in the later two kinds of consumption, the final consumption of steam coal is expressed as follows:

Final Consumption

$$EBC03R33 = EBC03R32$$

Finally, statistical difference is found out by subtracting totals of primary energy supply sector, energy transformation sector and energy industry own-use sector from the final consumption.

Statistical Difference

$$EBC03R30 = EBC03R31 - EBC03R06 - EBC03R17 - EBC03R29$$

It is usually not easy to separate statistical differences from losses. Statistical differences result from differences in the data collection methods employed by, for example, the producer and the distributor. On the other hand, losses occur as results of evaporation, leakage, etc. at various points of the entire flow. Since there is no original statistics of losses as

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such, they are usually calculated as the differences between statistics at two different points of the flow, e.g. before transportation and after.

Therefore, separation of the two should be done according to cases. For example, in the case of electric power, the difference should be counted as loss, because transportation and distribution losses are far greater than statistical difference. It also should be counted as loss in the case of natural gas, with which flaring is a common practice. Excepting these two sources of energy, it seems reasonable to count such differences as statistical differences, rather than as losses.

In the manner explained above as to the case of steam coal, energy balance equations are first made columnwise as to the other categories of energy.

The next set of equations are those of subtotals, such as total coal, total petroleum products, etc. Here again we explain by taking coal in the primary energy supply sector as an example.

Since four categories of coals, coaking coal, steam coal, anthracite and lignite, are produced domestically, domestic production in total coal is given as follows:

Domestic Production

$$EBC01R01 = EBC03R01 + EBC04R01 + EBC05R01$$

Likewise, import, export and stock change are given as follows:

Import

$$EBC01R02 = EBC02R02$$

Export

$$EBC01R03 = EBC03R03 + EBC04R03$$

Stock Change

$$EBC01R05 = EBC02R05 + EBC03R05 + EBC04R05 + EBC05R05$$

Thus total of coal in the primary energy supply sector is expressed in two different equations as follows:

Total of Primary Energy Supply Sector

$$EBC01R06 = EBC02R06 + EBC03R06 + EBC04R06 + EBC05R06, \text{ and}$$

$$EBC01R06 = EBC01R01 + EBC01R02 + EBC01R03 + EBC01R05$$

Each of subtotals is given as explained above, and by aggregating them all the grand total is given.

It is to be noted here that the figures shown in the energy transformation sector of grand total column show losses occurring in the process of transforming primary energy into processed (= secondary) energy.

2. List of Energy Balance Equations

(1) Coking Coal

$$\begin{aligned} \text{ERC02R02} &= \text{ICCO} + \text{FCCO} \\ \text{ERC02R05} &= (\text{UCCO}(-1) - \text{UCCO}) + \text{FCCO} \\ \text{ERC02R06} &= \text{ERC02R02} + \text{ERC02R05} \\ \text{ERC02R14} &= -\text{ICCO} + \text{TWG} + \text{FCCO} \\ \text{ERC02R15} &= -\text{ICCO} + \text{COK} + \text{FCCO} \\ \text{ERC02R17} &= \text{ERC02R14} + \text{ERC02R15} \\ \text{ERC02R28} &= -\text{LCCO} + \text{FCCO} \\ \text{ERC02R29} &= \text{ERC02R28} \\ \text{ERC02R30} &= -\text{ERC02R06} - \text{ERC02R17} - \text{ERC02R29} \end{aligned}$$

(2) Steam Coal

$$\begin{aligned} \text{ERC03R01} &= \text{PSCO} + \text{FSCO} \\ \text{ERC03R03} &= -\text{ISCO} + \text{FSCO} \\ \text{ERC03R05} &= (\text{WSCO}(-1) - \text{WSCO}) + \text{FSCO} \\ \text{ERC03R06} &= \text{ERC03R01} + \text{ERC03R03} + \text{ERC03R05} \\ \text{ERC03R11} &= -\text{TSCO} + \text{FUB} + \text{FSCO} \\ \text{ERC03R13} &= -\text{TSCO} + \text{AUT} + \text{FSCO} \\ \text{ERC03R14} &= -\text{TSCO} + \text{TWG} + \text{FSCO} \\ \text{ERC03R16} &= -\text{TSCO} + \text{BFO} + \text{FSCO} \\ \text{ERC03R17} &= \text{ERC03R11} + \text{ERC03R13} + \text{ERC03R14} + \text{ERC03R16} \\ \text{ERC03R27} &= -\text{HSCO} + \text{CHN} + \text{FSCO} \\ \text{ERC03R28} &= -\text{LSCO} + \text{FSCO} \\ \text{ERC03R29} &= \text{ERC03R27} + \text{ERC03R28} \\ \text{ERC03R44} &= \text{CSCO} + \text{CAC} + \text{FSCO} \\ \text{ERC03R48} &= \text{CSCO} + \text{SUD} + \text{FSCO} \\ \text{ERC03R38} &= \text{ERC03R44} + \text{ERC03R48} \\ \text{ERC03R36} &= \text{CSCO} + \text{NIN} + \text{FSCO} \\ \text{ERC03R33} &= \text{ERC03R36} + \text{ERC03R38} \\ \text{ERC03R55} &= \text{CSCO} + \text{RLV} + \text{FSCO} \\ \text{ERC03R52} &= \text{ERC03R55} \\ \text{ERC03R32} &= \text{ERC03R33} + \text{ERC03R52} \\ \text{ERC03R31} &= \text{ERC03R32} \\ \text{ERC03R30} &= \text{ERC03R31} - \text{ERC03R06} - \text{ERC03R17} - \text{ERC03R29} \end{aligned}$$

(3) Anthracite

$$\begin{aligned} \text{ERC04R01} &= \text{FACO} + \text{FACO} \\ \text{ERC04R03} &= -\text{EACO} + \text{FACO} \\ \text{ERC04R05} &= (\text{VACO}(-1) - \text{VACO}) + \text{FACO} \\ \text{ERC04R08} &= \text{ERC04R01} + \text{ERC04R03} + \text{ERC04R05} \\ \text{ERC04R27} &= -\text{HACO} + \text{CHN} + \text{FACO} \\ \text{ERC04R28} &= -\text{LACO} + \text{FACO} \\ \text{ERC04R29} &= \text{ERC04R27} + \text{ERC04R28} \\ \text{ERC04R46} &= \text{CACO} + \text{NFX} + \text{FACO} \\ \text{ERC04R38} &= \text{ERC04R46} \\ \text{ERC04R36} &= \text{CACO} + \text{NIN} + \text{FACO} \\ \text{ERC04R33} &= \text{ERC04R36} + \text{ERC04R38} \\ \text{ERC04R32} &= \text{ERC04R33} \\ \text{ERC04R60} &= \text{CACO} + \text{NEN} + \text{FACO} \end{aligned}$$

$$\begin{aligned} \text{ERC04R31} &= \text{ERC04R32} + \text{ERC04R60} \\ \text{ERC04R30} &= \text{ERC04R31} - \text{ERC04R06} - \text{ERC04R29} \end{aligned}$$

(4) Lignite

$$\begin{aligned} \text{ERC05R01} &= \text{FLCO} + \text{FLCO} \\ \text{ERC05R05} &= (\text{ULCO}(-1) - \text{ULCO}) + \text{FLCO} \\ \text{ERC05R06} &= \text{ERC05R01} + \text{ERC05R05} \\ \text{ERC05R28} &= -\text{LLCO} + \text{FLCO} \\ \text{ERC05R29} &= \text{ERC05R28} \\ \text{ERC05R44} &= \text{CLCO} + \text{CAC} + \text{FLCO} \\ \text{ERC05R38} &= \text{ERC05R44} \\ \text{ERC05R33} &= \text{ERC05R38} \\ \text{ERC05R32} &= \text{ERC05R33} \\ \text{ERC05R31} &= \text{ERC05R32} \\ \text{ERC05R30} &= \text{ERC05R31} - \text{ERC05R06} - \text{ERC05R29} \end{aligned}$$

(5) Total of Coal

$$\begin{aligned} \text{ERC01R01} &= \text{ERC03R01} + \text{ERC04R01} + \text{ERC05R01} \\ \text{ERC01R02} &= \text{ERC02R02} \\ \text{ERC01R03} &= \text{ERC03R03} + \text{ERC04R03} \\ \text{ERC01R05} &= \text{ERC02R05} + \text{ERC03R05} + \text{ERC04R05} + \text{ERC05R05} \\ \text{ERC01R06} &= \text{ERC02R06} + \text{ERC03R06} + \text{ERC04R06} + \text{ERC05R06} \\ \text{ERC01R11} &= \text{ERC03R11} \\ \text{ERC01R13} &= \text{ERC03R13} \\ \text{ERC01R14} &= \text{ERC02R14} + \text{ERC03R14} \\ \text{ERC01R15} &= \text{ERC02R15} \\ \text{ERC01R16} &= \text{ERC03R16} \\ \text{ERC01R17} &= \text{ERC02R17} + \text{ERC03R17} \\ \text{ERC01R27} &= \text{ERC03R27} + \text{ERC04R27} \\ \text{ERC01R28} &= \text{ERC02R28} + \text{ERC03R28} + \text{ERC04R28} + \text{ERC05R28} \\ \text{ERC01R29} &= \text{ERC02R29} + \text{ERC03R29} + \text{ERC04R29} + \text{ERC05R29} \\ \text{ERC01R30} &= \text{ERC02R30} + \text{ERC03R30} + \text{ERC04R30} + \text{ERC05R30} \\ \text{ERC01R31} &= \text{ERC03R31} + \text{ERC04R31} + \text{ERC05R31} \\ \text{ERC01R32} &= \text{ERC03R32} + \text{ERC04R32} + \text{ERC05R32} \\ \text{ERC01R33} &= \text{ERC03R33} + \text{ERC04R33} + \text{ERC05R33} \\ \text{ERC01R36} &= \text{ERC03R36} + \text{ERC04R36} \\ \text{ERC01R38} &= \text{ERC03R38} + \text{ERC04R38} + \text{ERC05R38} \\ \text{ERC01R44} &= \text{ERC03R44} + \text{ERC05R44} \\ \text{ERC01R46} &= \text{ERC04R46} \\ \text{ERC01R48} &= \text{ERC03R48} \\ \text{ERC01R52} &= \text{ERC03R52} \\ \text{ERC01R55} &= \text{ERC03R55} \\ \text{ERC01R60} &= \text{ERC04R60} \end{aligned}$$

(6) Original Crude Oil

$$\begin{aligned} \text{ERC07R01} &= \text{FOCR} + \text{FOCR} \\ \text{ERC07R02} &= \text{IOCR} + \text{FOCR} \\ \text{ERC07R03} &= -\text{EOCR} + \text{FOCR} \\ \text{ERC07R05} &= (\text{VOCR}(-1) - \text{VOCR}) + \text{FOCR} \\ \text{ERC07R06} &= \text{ERC07R01} + \text{ERC07R02} + \text{ERC07R03} + \text{ERC07R05} \\ \text{ERC07R07} &= \text{IOCR} + \text{REF} + \text{FOCR} \\ \text{ERC07R17} &= \text{ERC07R07} \\ \text{ERC07R18} &= -\text{HOCR} + \text{REF} + \text{FOCR} \\ \text{ERC07R20} &= -\text{HOCR} + \text{REF} + \text{FOCR} \end{aligned}$$

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ERC07R28--(LOC81CRF+LOC81URF)+FOCR
ERC07R29-ERC07R18+ERC07R20+ERC07R28
ERC07R30--ERC07R06-ERC07R17-ERC07R29

(7) Reduced Crude Oil

ERC08R02=IABS+FABS+ILBS+FLBS
ERC08R05=(VABS(-1)-VABS)+FABS+
 (WLBS(-1)-WLBS)+FLBS
ERC08R06=ERC08R02+ERC08R05
ERC08R07--TABSAREF+FABS-TLBSAREF+FLBS
ERC08R17=ERC08R07
ERC08R28--LABS+FABS-LLBS+FLBS
ERC08R29=ERC08R28
ERC08R30--ERC08R06-ERC08R17-ERC08R29

(8) Total of Crude Oil

ERC06R01=ERC07R01
ERC06R02=ERC07R02+ERC08R02
ERC06R03=ERC07R03
ERC06R05=ERC07R05+ERC08R05
ERC06R06=ERC07R06+ERC08R06
ERC06R07=ERC07R07+ERC08R07
ERC06R17=ERC07R17+ERC08R17
ERC06R18=ERC07R18
ERC06R20=ERC07R20
ERC06R28=ERC07R28+ERC08R28
ERC06R29=ERC07R29+ERC08R29
ERC06R30=ERC07R30+ERC08R30

(9) Aviation Gasoline

ERC12R02=IAGS+FAGS
ERC12R03--EAGS+FAGS
ERC12R04--CAGS3IUL+FAGS
ERC12R05=(VAGS(-1)-VAGS)+FAGS
ERC12R06=ERC12R02+ERC12R03+ERC12R05
ERC12R07=FAGSAREF+FAGS
ERC12R17=ERC12R07
ERC12R28--LAGS+FAGS
ERC12R29=ERC12R28
CAGS3TIN=CAGS3AGR+CAGS3FRT+CAGS3MIN+
 CAGS3MAC+CAGS3SUQ+HAGS3CRF+HAGS3REF;
 +CAGS3CON
ERC12R53=(CAGS3AIR+CAGS3TIN)+FAGS
ERC12R57=CAGS3IUL+FAGS
ERC12R52=ERC12R53+ERC12R57
ERC12R58=CAGS3GAF+FAGS
ERC12R32=ERC12R52+ERC12R58
ERC12R31=ERC12R32
ERC12R30=ERC12R31+ERC12R06+ERC12R17+ERC12R29

(10) Super Gasoline

ERC13R02=ISGS+FSGS
ERC13R05=(USGS(-1)-USGS)+FSGS
ERC13R06=ERC13R02+ERC13R05
ERC13R07=FSGSAREF+FSGS
ERC13R17=ERC13R07
ERC13R28--LSGS+FSGS
ERC13R29=ERC13R28
CSGS3TIN=CSGS3MIN+CSGS3FOD+CSGS3MAC+CSGS3FCH
 +CSGS3SUQ+HSGS3REF+HSGS3CRF;
 +CSGS3CON
ERC13R54=(CSGS3TIN+CSGS3R0D)+FSGS
ERC13R52=ERC13R54
ERC13R56=CSGS3GAF+FSGS
ERC13R32=ERC13R52+ERC13R56
ERC13R31=ERC13R32
ERC13R30=ERC13R31-ERC13R06-ERC13R17-ERC13R29

(11) Premium Gasoline

ERC14R02=IFGS+FFGS
ERC14R03--EPGS+FFGS
ERC14R05=(VPGS(-1)-VPGS)+FFGS
ERC14R06=ERC14R02+ERC14R03+ERC14R05
ERC14R07=FFGSAREF+FFGS
ERC14R17=ERC14R07
ERC14R28--LPGS+FFGS
ERC14R29=ERC14R28
CPGS3TIN=CPGS3AGR+CPGS3FRT+CPGS3MIN+CPGS3CON
 +CPGS3FOD+CPGS3IXT+CPGS3RUB;
 +CPGS3FAP+CPGS3FCH+CPGS3CAC+CPGS3FCH
 +CPGS3MAC+CPGS3SUQ+HFGS3CRF;
 +HFGS3REF+HFGS3FUR+CPGS3IAS
ERC14R54=(CPGS3R0D+CPGS3TIN)+FFGS
ERC14R56=CPGS3NAV+FFGS
ERC14R52=ERC14R54+ERC14R56
ERC14R58=CPGS3GAF+FFGS
ERC14R32=ERC14R52+ERC14R58
ERC14R31=ERC14R32
ERC14R30=ERC14R31-ERC14R06-ERC14R17-ERC14R29

(12) Total of Gasoline

ERC11R02=ERC12R02+ERC13R02+ERC14R02
ERC11R03=ERC12R03+ERC14R03
ERC11R04=ERC12R04
ERC11R05=ERC12R05+ERC13R05+ERC14R05
ERC11R06=ERC12R06+ERC13R06+ERC14R06
ERC11R07=ERC12R07+ERC13R07+ERC14R07
ERC11R17=ERC12R17+ERC13R17+ERC14R17
ERC11R28=ERC12R28+ERC13R28+ERC14R28
ERC11R29=ERC12R29+ERC13R29+ERC14R29
ERC11R30=ERC12R30+ERC13R30+ERC14R30
ERC11R31=ERC12R31+ERC13R31+ERC14R31
ERC11R32=ERC12R32+ERC13R32+ERC14R32

EBC11R52=EBC12R52+EBC13R52+EBC14R52
 EBC11R53=EBC12R53
 EBC11R54=EBC13R54+EBC14R54
 EBC11R56=EBC14R56
 EBC11R57=EBC12R57
 EBC11R58=EBC12R58+EBC13R58+EBC14R58

(13) Jet Fuel

EBC15R02=LJET+FJET
 EBC15R03=-EJET+FJET
 EBC15R04=-CJET&IUL+FJET
 EBC15R05=(WJET(-1)-WJET)+FJET
 EBC15R06=EBC15R02+EBC15R03+EBC15R05
 EBC15R07=PJET&REF+FJET
 EBC15R17=EBC15R07
 EBC15R28=-LJET+FJET
 EBC15R29=EBC15R28
 CJET&IIN=CJET&AGR+CJET&FRF+CJET&IIN+
 CJET&CON+CJET&SVO+HJET&CRF+HJET&REF+
 +CJET&FOD
 EBC15R53=(CJET&IIN+CJET&AIR)+FJET
 EBC15R57=CJET&IUL+FJET
 EBC15R52=EBC15R53+EBC15R57
 EBC15R58=CJET&GAF+FJET
 EBC15R32=EBC15R52+EBC15R58
 EBC15R31=EBC15R32
 EBC15R30=EBC15R31-EBC15R06-EBC15R17-EBC15R27

(14) Kerosene

EBC16R02=IKER+FKER
 EBC16R05=(VKER(-1)-VKER)+FKER
 EBC16R06=EBC16R02+EBC16R05
 EBC16R07=PKER&REF+FKER
 EBC16R14=-TKER&IUG+FKER
 EBC16R17=EBC16R07+EBC16R14
 EBC16R28=-LKER+FKER
 EBC16R29=EBC16R28
 CKER&IIN=CKER&MIN+CKER&SVO+CKER&GAF+
 HKER&CRF+HKER&REF+HKER&IUG
 EBC16R49=(CKER&RAC+CKER&IIN)+FKER
 EBC16R32=EBC16R49
 EBC16R31=EBC16R32
 EBC16R30=EBC16R31-EBC16R06-EBC16R17-EBC16R27

(15) Automotive Diesel Oil

EBC18R02=IADO+FADO
 EBC18R03=-EADO+FADO
 EBC18R04=-CADO&IUL+FADO
 EBC18R05=(VADO(-1)-VADO)+FADO
 EBC18R06=EBC18R02+EBC18R03+EBC18R05
 EBC18R07=FADO&REF+FADO
 EBC18R11=-TADO&FUR+FADO
 TADO&AUT=AADO&AGR+AADO&IIN+AADO&CON+AADO

&FOD+AADO&TXT+AADO&RUB+AADO&FAP;
 +AADO&FCH+AADO&CAC+AADO&IAS+AADO
 &RFX+AADO&HAC+AADO&SVO+AADO&RAC;
 +AADO&GAF+AADO&FRF+AADO&CRF
 +AADO&REF+AADO&FUR+AADO&IUG

EBC18R13=-TADO&AUT+FADO
 EBC18R14=-TADO&IUG+FADO
 EBC18R17=EBC18R07+EBC18R11+EBC18R13+EBC18R14
 EBC18R18=-HADO&CRF+FADO
 EBC18R20=-HADO&REF+FADO
 EBC18R23=-HADO&FUR+FADO
 EBC18R24=-HADO&IUG+FADO
 EBC18R28=-LADO+FADO
 EBC18R29=EBC18R18+EBC18R20+EBC18R23+EBC18R24
 +EBC18R28

EBC18R39=CADO&FOD+FADO
 EBC18R40=CADO&TXT+FADO
 EBC18R41=CADO&RUB+FADO
 EBC18R42=CADO&FAP+FADO
 EBC18R43=CADO&FCH+FADO
 EBC18R44=CADO&CAC+FADO
 EBC18R45=CADO&IAS+FADO
 EBC18R46=CADO&RFX+FADO
 EBC18R47=CADO&HAC+FADO
 EBC18R48=CADO&SVO+FADO
 EBC18R38=EBC18R39+EBC18R40+EBC18R41+EBC18R42
 +EBC18R43+EBC18R44+EBC18R45;
 +EBC18R46+EBC18R47+EBC18R48

EBC18R34=(CADO&AGR+CADO&FRF)+FADO
 EBC18R35=CADO&FIS+FADO
 EBC18R36=CADO&MIN+FADO
 EBC18R37=CADO&CON+FADO
 EBC18R33=EBC18R34+EBC18R36+EBC18R37+EBC18R35
 +EBC18R38

EBC18R53=CADO&AIR+FADO
 EBC18R54=CADO&IROD+FADO
 EBC18R55=CADO&RLV+FADO
 EBC18R56=CADO&NAV+FADO
 EBC18R57=CADO&IUL+FADO
 EBC18R52=EBC18R53+EBC18R54+EBC18R55+EBC18R56
 +EBC18R57

EBC18R58=CADO&GAF+FADO
 EBC18R61=EBC18R43

EBC18R32=EBC18R33+EBC18R52+EBC18R58
 EBC18R31=EBC18R32
 EBC18R30=EBC18R31-EBC18R06-EBC18R17-EBC18R27

(16) Industrial Diesel Oil

EBC19R02=IIDO+FIDO
 EBC19R03=-EIDO+FIDO
 EBC19R04=-CIDO&IUL+FIDO
 EBC19R05=(WIDO(-1)-WIDO)+FIDO
 EBC19R06=EBC19R02+EBC19R03+EBC19R05
 EBC19R07=FIDO&REF+FIDO

(8)

EBC19R11=-TID03PUB+FID0
TID03AUT=AID03AGR+AID03MIN+AID03CON+AID03FOD+AID03XTI+AID03RUB+AID03FAP;
+AID03FCH+AID03CAC+AID03IAS+AID03NFK+AID03HAC+AID03SVO+AID03RAC;
+AID03GAF+AID03FRT+AID03CRF+AID03REF+AID03FUR+AID03TVG
EBC19R13=-TID03AUT+FID0
EBC19R14=-TID03TVG+FID0
EBC19R17=EBC19R07+EBC19R11+EBC19R13+EBC19R14
EBC19R18=-HID03CRF+FID0
EBC19R20=-HID03REF+FID0
EBC19R23=-HID03FUB+FID0
EBC19R24=-HID03TVG+FID0
EBC19R28=-LID0+FID0
EBC19R29=EBC19R18+EBC19R20+EBC19R23+EBC19R24+EBC19R28
EBC19R39=CID03FOD+FID0
EBC19R40=CID03XTI+FID0
EBC19R41=CID03RUB+FID0
EBC19R42=CID03PAF+FID0
EBC19R43=CID03FCH+FID0
EBC19R44=CID03CAC+FID0
EBC19R45=CID03IAS+FID0
EBC19R46=CID03NFK+FID0
EBC19R47=CID03HAC+FID0
EBC19R48=CID03SVO+FID0
EBC19R38=EBC19R39+EBC19R40+EBC19R41+EBC19R42+EBC19R43+EBC19R45+EBC19R47;
+EBC19R48+EBC19R44+EBC19R46
EBC19R34=(CID03AGR+CID03FRT)+FID0
EBC19R36=CID03MIN+FID0
EBC19R37=CID03CON+FID0
EBC19R33=EBC19R34+EBC19R36+EBC19R37+EBC19R38
EBC19R54=CID03KOD+FID0
EBC19R55=CID03RLW+FID0
EBC19R56=CID03NAV+FID0
EBC19R57=CID03IUL+FID0
EBC19R52=EBC19R54+EBC19R55+EBC19R56+EBC19R57
EBC19R58=CID03GAF+FID0
EBC19R61=EBC19R43
EBC19R32=EBC19R33+EBC19R52+EBC19R58
EBC19R31=EBC19R32
EBC19R30=EBC19R31-EBC19R06-EBC19R17-EBC19R29

(17) Total of Diesel Oil

EBC17R02=EBC18R02+EBC19R02	EBC17R28=EBC18R28+EBC19R28
EBC17R03=EBC18R03+EBC19R03	EBC17R29=EBC18R29+EBC19R29
EBC17R04=EBC18R04+EBC19R04	EBC17R30=EBC18R30+EBC19R30
EBC17R05=EBC18R05+EBC19R05	EBC17R31=EBC18R31+EBC19R31
EBC17R06=EBC18R06+EBC19R06	EBC17R32=EBC18R32+EBC19R32
EBC17R07=EBC18R07+EBC19R07	EBC17R33=EBC18R33+EBC19R33
EBC17R11=EBC18R11+EBC19R11	EBC17R34=EBC18R34+EBC19R34
EBC17R13=EBC18R13+EBC19R13	EBC17R35=EBC18R35
EBC17R14=EBC18R14+EBC19R14	EBC17R36=EBC18R36+EBC19R36
EBC17R17=EBC18R17+EBC19R17	EBC17R37=EBC18R37+EBC19R37
EBC17R18=EBC18R18+EBC19R18	EBC17R38=EBC18R38+EBC19R38
EBC17R20=EBC18R20+EBC19R20	EBC17R39=EBC18R39+EBC19R39
EBC17R23=EBC18R23+EBC19R23	EBC17R40=EBC18R40+EBC19R40
EBC17R24=EBC18R24+EBC19R24	EBC17R41=EBC18R41+EBC19R41

EBC17R42=EBC18R42+EBC19R42
 EBC17R43=EBC18R43+EBC19R43
 EBC17R44=EBC18R44+EBC19R44
 EBC17R45=EBC18R45+EBC19R45
 EBC17R46=EBC18R46
 EBC17R47=EBC18R47+EBC19R47
 EBC17R48=EBC18R48+EBC19R48
 EBC17R52=EBC18R52+EBC19R52
 EBC17R53=EBC18R53
 EBC17R54=EBC18R54+EBC19R54
 EBC17R55=EBC18R55+EBC19R55
 EBC17R56=EBC18R56+EBC19R56
 EBC17R57=EBC18R57+EBC19R57
 EBC17R58=EBC18R58+EBC19R58
 EBC17R61=EBC18R61+EBC19R61

(18) Heavy Fuel Oil

EBC20R02=IHF0+FHFO
 EBC20R03=-EHFO+FHFO
 EBC20R04=-CHF03IUL+FHFO
 EBC20R05=(VHF0(-1)-VHF0)+FHFO
 EBC20R06=EBC20R03+EBC20R05+EBC20R02
 EBC20R07=PHFO3REF+FHFO
 EBC20R11=-THFO3PUB+FHFO
 THFO3AUT+AHFO3AGR+AHFO3MIN+AHFO3CON+AHFO
 3FOO+AHFO3TXT+AHFO3RUB+AHFO3PAP;
 AHFO3FCH+AHFO3CAC+AHFO3TAS+AHFO
 3NFX+AHFO3MAC+AHFO3SVO+AHFO3RAC;
 AHFO3GAF+AHFO3FR1+AHFO3CRF
 AHFO3REF+AHFO3PUB+AHFO3TUG
 EBC20R13=-IHF03AUT+FHFO
 EBC20R14=-IHF03TUG+FHFO
 EBC20R17=EBC20R07+EBC20R11+EBC20R13+EBC20R14
 EBC20R18=-HHFO3CRF+FHFO
 EBC20R20=-HHFO3REF+FHFO
 EBC20R23=-HHFO3PUB+FHFO
 EBC20R28=-LHF0+FHFO
 EBC20R29=EBC20R18+EBC20R20+EBC20R23+EBC20R28
 EBC20R39=CHF03FOD+FHFO
 EBC20R40=CHF03TXT+FHFO
 EBC20R41=CHF03RUB+FHFO
 EBC20R42=CHF03PAP+FHFO
 EBC20R43=CHF03FCH+FHFO
 EBC20R44=CHF03CAC+FHFO
 EBC20R45=CHF03TAS+FHFO
 EBC20R46=CHF03NFX+FHFO
 EBC20R47=CHF03MAC+FHFO
 EBC20R48=CHF03SVO+FHFO
 EBC20R38=EBC20R39+EBC20R40+EBC20R41
 +EBC20R42+EBC20R43+EBC20R44+EBC20R45;
 +EBC20R46+EBC20R47+EBC20R48
 EBC20R34=(CHF03AGR+CHF03FR1)+FHFO
 EBC20R36=CHF03MIN+FHFO
 EBC20R37=CHF03CON+FHFO

EBC20R33=EBC20R34+EBC20R37+EBC20R38+EBC20R36
 EBC20R54=CHF03KOD+FHFO
 EBC20R55=CHF03RLM+FHFO
 EBC20R56=CHF03NAV+FHFO
 EBC20R57=CHF03IUL+FHFO
 EBC20R52=EBC20R54+EBC20R55+EBC20R56+EBC20R57
 EBC20R58=CHF03GAF+FHFO
 EBC20R61=EBC20R43
 EBC20R32=EBC20R33+EBC20R52+EBC20R58
 EBC20R31=EBC20R32
 EBC20R30=EBC20R31-EBC20R06-EBC20R17-EBC20R29

(19) Total Fuel Oil

EBC10R02=EBC11R02+EBC15R02+EBC16R02+EBC17R02
 +EBC20R02
 EBC10R03=EBC20R03+EBC15R03+EBC17R03+EBC11R03
 EBC10R04=EBC11R04+EBC15R04+EBC17R04+EBC20R04
 EBC10R05=EBC11R05+EBC15R05+EBC16R05+EBC17R05
 +EBC20R05
 EBC10R06=EBC11R06+EBC15R06+EBC16R06+EBC17R06
 +EBC20R06
 EBC10R07=EBC11R07+EBC15R07+EBC16R07+EBC17R07
 +EBC20R07
 EBC10R11=EBC17R11+EBC20R11
 EBC10R13=EBC17R13+EBC20R13
 EBC10R14=EBC16R14+EBC17R14+EBC20R14
 EBC10R17=EBC11R17+EBC15R17+EBC16R17+EBC17R17
 +EBC20R17
 EBC10R18=EBC17R18+EBC20R18
 EBC10R20=EBC17R20+EBC20R20
 EBC10R23=EBC17R23+EBC20R23
 EBC10R24=EBC17R24
 EBC10R28=EBC11R28+EBC15R28+EBC16R28+EBC17R28
 +EBC20R28
 EBC10R29=EBC11R29+EBC15R29+EBC16R29+EBC17R29
 +EBC20R29
 EBC10R30=EBC11R30+EBC15R30+EBC16R30+EBC17R30
 +EBC20R30
 EBC10R31=EBC11R31+EBC15R31+EBC16R31+EBC17R31
 +EBC20R31
 EBC10R32=EBC11R32+EBC15R32+EBC16R32+EBC17R32
 +EBC20R32
 EBC10R33=EBC17R33+EBC20R33
 EBC10R34=EBC17R34+EBC20R34
 EBC10R35=EBC17R35
 EBC10R36=EBC17R36+EBC20R36
 EBC10R37=EBC17R37+EBC20R37
 EBC10R38=EBC17R38+EBC20R38
 EBC10R39=EBC17R39+EBC20R39
 EBC10R40=EBC17R40+EBC20R40
 EBC10R41=EBC17R41+EBC20R41

(10)

EBC10R42=EBC17R42+EBC20R42
 EBC10R43=EBC17R43+EBC20R43
 EBC10R44=EBC17R44+EBC20R44
 EBC10R45=EBC17R45+EBC20R45
 EBC10R46=EBC17R46+EBC20R46
 EBC10R47=EBC17R47+EBC20R47
 EBC10R48=EBC17R48+EBC20R48
 EBC10R49=EBC16R49
 EBC10R52=EBC11R52+EBC15R52+EBC17R52+EBC20R52
 EBC10R53=EBC11R53+EBC15R53+EBC17R53
 EBC10R54=EBC11R54+EBC17R54+EBC20R54
 EBC10R55=EBC11R55+EBC20R55
 EBC10R56=EBC11R56+EBC17R56+EBC20R56
 EBC10R57=EBC11R57+EBC15R57+EBC17R57+EBC20R57
 EBC10R58=EBC11R58+EBC15R58+EBC17R58+EBC20R58
 EBC10R61=EBC17R61+EBC20R61

(20) Naphtha

EBC21R03=-ENAP+FNAP
 EBC21R05=(UNAP(-1)-UNAP)+FNAP
 EBC21R06=EBC21R03+EBC21R05
 EBC21R07=FNAP+REF+FNAP
 EBC21R09=-INAP+MON+FNAP
 EBC21R17=EBC21R07+EBC21R09
 EBC21R20=-KNAP+REF+FNAP
 EBC21R22=-KNAP+MON+FNAP
 EBC21R28=-LNAP+FNAP
 EBC21R29=EBC21R20+EBC21R22+EBC21R28
 EBC21R43=CNAP+FCM+FNAP
 EBC21R38=EBC21R13
 EBC21R33=EBC21R39
 EBC21R32=EBC21R33
 EBC21R59=CNAP+RCH+FNAP
 EBC21R41=EBC21R43+EBC21R59
 EBC21R31=EBC21R32+EBC21R59
 EBC21R30=EBC21R31-EBC21R06-EBC21R17-EBC21R29

(21) Low-Sulfur Waxy Residue

EBC22R03=-ELSR+FLSR
 EBC22R05=(VLSR(-1)-VLSR)+FLSR
 EBC22R06=EBC22R03+EBC22R05
 EBC22R07=FLSR+REF+FLSR
 EBC22R17=EBC22R07
 EBC22R20=-HLSR+REF+FLSR
 EBC22R28=-LLSR+FLSR
 EBC22R29=EBC22R20+EBC22R28
 EBC22R30=-EBC22R06-EBC22R17-EBC22R29

(22) Lubricants

EBC23R02=ILUB+FLUB
 EBC23R05=(VLUB(-1)-VLUB)+FLUB
 EBC23R06=EBC23R02+EBC23R05
 EBC23R07=FLUB+REF+FLUB

EBC23R17=EBC23R07
 EBC23R20=-HLUB+REF+FLUB
 EBC23R28=-LLUB+FLUB
 EBC23R29=EBC23R20+EBC23R28
 EBC23R60=CLUB+INEN+FLUB
 EBC23R31=EBC23R60
 EBC23R30=EBC23R31-EBC23R06-EBC23R17-EBC23R29

(23) Solvents

EBC24R02=ISOL+FSOL
 EBC24R03=-ESOL+FSOL
 EBC24R05=(VSOL(-1)-VSOL)+FSOL
 EBC24R06=EBC24R02+EBC24R03+EBC24R05
 EBC24R07=FSOL+REF+FSOL
 EBC24R17=EBC24R07
 EBC24R20=-HSOL+REF+FSOL
 EBC24R28=-LSOL+FSOL
 EBC24R29=EBC24R20+EBC24R28
 EBC24R60=CSOL+INEN+FSOL
 EBC24R31=EBC24R60
 EBC24R30=EBC24R31-EBC24R06-EBC24R17-EBC24R29

(24) Other Petroleum Products

- Asphalts, Grease, Waxes -

EBC25R02=IASP+FASP+IGRE+FGRE+IVAX+FWAX
 EBC25R03=(EASP+FASP+EGRE+FGRE+EVAX+FWAX)
 EBC25R05=(VASP(-1)-VASP)+FASP+(VGRE(-1)
 -VGRE)+FGRE+(VUAX(-1)-VUAX)+FWAX
 EBC25R06=EBC25R02+EBC25R03+EBC25R05
 EBC25R07=PAASP+REF+FASP+PGRE+REF+FGRE+PUAX+REF
 +FWAX
 EBC25R17=EBC25R07
 EBC25R20=-NASP+REF+FASP+HGRE+REF+FGRE+HVAX+REF
 +FWAX
 EBC25R28=-LASP+FASP+LGRE+FGRE+LUAX+FWAX
 EBC25R29=EBC25R20+EBC25R28
 EBC25R60=CASP+INEN+FASP+CGRE+INEN+FGRE+CVAX+INEN
 +FWAX
 EBC25R31=EBC25R60
 EBC25R30=EBC25R31-EBC25R06-EBC25R17-EBC25R29

(25) Petroleum Coke

EBC26R05=(VFCK(-1)-VFCK)+FFCK
 EBC26R06=EBC26R05
 EBC26R07=PFCK+REF+FFCK
 EBC26R17=EBC26R07
 EBC26R20=-HFCK+REF+FFCK
 EBC26R28=-LFCK+FFCK
 EBC26R29=EBC26R20+EBC26R28
 EBC26R46=CFCK+INEN+FFCK
 EBC26R38=EBC26R46
 EBC26R33=EBC26R38
 EBC26R32=EBC26R33

EBC26R40=CFCR&HEN+FFCK
 EBC26R31=EBC26R32+EBC26R40
 EBC26R30=EBC26R31-EBC26R06-EBC26R17-EBC26R29

(26) Refinery Gas

EBC27R07=FRFG&REF+FRFG
 EBC27R17=EBC27R07
 EBC27R20=-HRFG&REF+FRFG
 EBC27R28=-LRFG+FRFG
 EBC27R29=EBC27R20+EBC27R28
 EBC27R30=-EBC27R17-EBC27R29

(27) LPG

EBC28R02=ILPG+FLPG
 EBC28R03=-CLPG+FLPG
 EBC28R05=(ULPG(-1)-ULPG)+FLPG
 EBC28R06=EBC28R02+EBC28R03+EBC28R05

EBC28R07=FLPG&REF+FLPG
 EBC28R08=FLPG&NGL+FLPG
 EBC28R17=EBC28R07+EBC28R08
 EBC28R20=-HLFG&REF+FLPG
 EBC28R28=-LLPG+FLPG
 EBC28R29=EBC28R20+EBC28R28
 EBC28R48=CLPG&SUO+FLPG
 EBC28R38=EBC28R48
 EBC28R35=CLPG&FIS+FLPG
 EBC28R33=EBC28R35+EBC28R38
 EBC28R47=CLPG&RAC+FLPG
 EBC28R54=CLPG&R0D+FLPG
 EBC28R52=EBC28R54
 EBC28R59=CLPG&RCH+FLPG
 EBC28R61=EBC28R59
 EBC28R32=EBC28R33+EBC28R49+EBC28R52
 EBC28R31=EBC28R32+EBC28R59
 EBC28R30=EBC28R31-EBC28R06-EBC28R17-EBC28R29

(28) Total of Petroleum Products

EBC09R02=EBC10R02+EBC23R02+EBC25R02+EBC24R02+EBC26R02
 EBC09R03=EBC10R03+EBC21R03+EBC22R03+EBC25R03+EBC26R03+EBC24R03
 EBC09R04=EBC10R04
 EBC09R05=EBC10R05+EBC21R05+EBC22R05+EBC23R05+EBC24R05+EBC25R05;
 +EBC26R05+EBC28R05
 EBC09R06=EBC10R06+EBC21R06+EBC22R06+EBC23R06+EBC24R06+EBC25R06;
 +EBC26R06+EBC28R06
 EBC09R07=EBC10R07+EBC21R07+EBC22R07+EBC23R07+EBC24R07+EBC25R07;
 +EBC26R07+EBC27R07+EBC28R07
 EBC09R08=EBC28R08
 EBC09R09=EBC21R09
 EBC09R11=EBC10R11
 EBC09R13=EBC10R13
 EBC09R14=EBC10R14
 EBC09R17=EBC10R17+EBC21R17+EBC22R17+EBC23R17+EBC24R17+EBC25R17;
 +EBC26R17+EBC27R17+EBC28R17
 EBC09R18=EBC10R18
 EBC09R20=EBC10R20+EBC21R20+EBC23R20+EBC25R20+EBC22R20+EBC27R20;
 +EBC26R20+EBC28R20+EBC24R20
 EBC09R22=EBC21R22
 EBC09R23=EBC10R23
 EBC09R24=EBC10R24
 EBC09R28=EBC10R28+EBC21R28+EBC22R28+EBC23R28+EBC24R28+EBC25R28;
 +EBC26R28+EBC27R28+EBC28R28
 EBC09R29=EBC10R29+EBC21R29+EBC22R29+EBC23R29+EBC24R29+EBC25R29;
 +EBC26R29+EBC27R29+EBC28R29
 EBC09R30=EBC10R30+EBC21R30+EBC22R30+EBC23R30+EBC24R30+EBC25R30;
 +EBC26R30+EBC27R30+EBC28R30
 EBC09R31=EBC10R31+EBC21R31+EBC23R31+EBC24R31+EBC25R31+EBC26R31+EBC28R31
 EBC09R32=EBC10R32+EBC21R32+EBC26R32+EBC28R32
 EBC09R33=EBC10R33+EBC21R33+EBC26R33+EBC28R33
 EBC09R34=EBC10R34
 EBC09R35=EBC10R35+EBC26R35
 EBC09R36=EBC10R36
 EBC09R37=EBC10R37

(12)

EBC09R38=EBC10R38+EBC21R38+EBC26R38+EBC28R38
EBC09R39=EBC10R39
EBC09R40=EBC10R40
EBC09R41=EBC10R41
EBC09R42=EBC10R42
EBC09R43=EBC10R43+EBC21R43
EBC09R44=EBC10R44
EBC09R45=EBC10R45
EBC09R46=EBC10R46+EBC26R46
EBC09R47=EBC10R47
EBC09R48=EBC10R48+EBC28R48
EBC09R49=EBC10R49+EBC28R49
EBC09R52=EBC10R52+EBC28R52
EBC09R53=EBC10R53
EBC09R54=EBC10R54+EBC28R54
EBC09R55=EBC10R55
EBC09R56=EBC10R56
EBC09R57=EBC10R57
EBC09R58=EBC10R58
EBC09R59=EBC21R59+EBC28R59
EBC09R60=EBC23R60+EBC24R60+EBC25R60+EBC26R60
EBC09R61=EBC10R61+EBC21R61+EBC28R61

(29) Natural Gas

EBC29R01=PING+PING
EBC29R06=EBC29R01
EBC29R08=-ITNG3NGL+PING
EBC29R09=-ITNG3MOH+PING
EBC29R11=-ITNG3PUB+PING
EBC29R13=-(ATNG3HGF+ATNG3NGL)+PING
EBC29R14=-ITNG3TUG+PING
EBC29R17=EBC29R08+EBC29R09+EBC29R11+EBC29R14+EBC29R13
EBC29R19=-HTNG3NHF+PING
EBC29R20=-HTNG3REF+PING
EBC29R21=-HTNG3NGL+PING
EBC29R22=-HTNG3MOH+PING
EBC29R23=-HTNG3PUB+PING
EBC29R24=-HTNG3TUG+PING
EBC29R28=-LTING+PING
EBC29R29=EBC29R19+EBC29R20+EBC29R21+EBC29R22+EBC29R23+EBC29R24+EBC29R28
EBC29R43=CTNG3FCH+PING
EBC29R44=CTNG3CAC+PING
EBC29R48=CTNG3SQD+PING
EBC29R38=EBC29R43+EBC29R44+EBC29R48
EBC29R33=EBC29R36
EBC29R49=CTNG3RAC+PING
EBC29R32=EBC29R33+EBC29R49
EBC29R59=CTNG3RCH+PING
EBC29R61=EBC29R43+EBC29R59
EBC29R31=EBC29R32+EBC29R59
EBC29R30=EBC29R31-EBC29R06-EBC29R17-EBC29R29

(30) NGL

EBC30R03=-ECOK+FCOK
 EBC30R06=EBC30R03
 EBC30R08=PCONJNGL+FCOK
 EBC30R09=-TCOMJEMA+FCOK
 EBC30R17=EBC30R08+EBC30R09
 EBC30R30=-EBC30R06-EBC30R17

(31) LNG

EBC31R03=-ELNG+FLNG
 EBC31R06=EBC31R03
 EBC31R08=PLNGJNGL+FLNG
 EBC31R17=EBC31R08
 EBC31R30=-EBC31R06-EBC31R17

(32) Methanol

EBC32R03=-EMOH+FMOH
 EBC32R06=EBC32R03
 EBC32R09=PMOHJMOH+FMOH
 EBC32R17=EBC32R09
 EBC32R54=CMOHJROD+FMOH
 EBC32R52=EBC32R54
 EBC32R32=EBC32R52
 EBC32R59=CMOHJACH+FMOH
 EBC32R61=EBC32R59
 EBC32R31=EBC32R32+EBC32R59
 EBC32R30=EBC32R31-EBC32R06-EBC32R17

(33) Town Gas

EBC33R14=PIUGJTVG+FTVG
 EBC33R17=EBC33R14
 EBC33R24=-HIUGJTVG+FTVG
 EBC33R28=-LTVG+FTVG
 EBC33R29=EBC33R28+EBC33R24
 EBC33R44=CTVGJCAC+FTVG
 EBC33R38=EBC33R44
 EBC33R33=EBC33R38
 EBC33R49=CTVGJAC+FTVG
 EBC33R32=EBC33R33+EBC33R49
 EBC33R31=EBC33R32
 EBC33R30=EBC33R31-EBC33R17-EBC33R29

(34) Coke

EBC34R02=ICOK+FCOK
 EBC34R05=(VCOK(-1)-VCOK)+FCOK
 EBC34R06=EBC34R02+EBC34R05
 EBC34R14=PCOKJTVG+FCOK
 EBC34R15=PCOKJCOK+FCOK
 EBC34R17=EBC34R14+EBC34R15
 EBC34R45=CCOKJIAS+FCOK
 EBC34R47=CCOKJNAC+FCOK
 EBC34R48=CCOKJSUO+FCOK
 EBC34R38=EBC34R45+EBC34R47+EBC34R48

EBC34R33=EBC34R38
 EBC34R32=EBC34R33
 EBC34R31=EBC34R32
 EBC34R30=EBC34R31-EBC34R06-EBC34R17

(35) Coke Oven Gas

EBC35R14=-ICKGJTVG+FCCKG
 EBC35R15=PKCKGJCOK+FCCKG
 EBC35R17=EBC35R14+EBC35R15
 EBC35R25=-HCKGJCOK+FCCKG
 EBC35R29=EBC35R25
 EBC35R30=-EBC35R17-EBC35R29

(36) Briquet

EBC37R05=(VBR0(-1)-VBR0)+FBR0
 EBC37R06=EBC37R05
 EBC37R16=PBROJBR0+FBR0
 EBC37R17=EBC37R16
 EBC37R44=CBROJCAC+FBR0
 EBC37R38=EBC37R44
 EBC37R33=EBC37R38
 EBC37R49=CBROJAC+FBR0
 EBC37R32=EBC37R33+EBC37R49
 EBC37R31=EBC37R32
 EBC37R30=EBC37R31-EBC37R06-EBC37R17

(37) Wood

EBC38R01=PWOD+FWOD
 EBC38R05=(VWOD(-1)-VWOD)+FWOD
 EBC38R06=EBC38R01+EBC38R05
 EBC38R44=CVODJCAC+FWOD
 EBC38R38=EBC38R44
 EBC38R34=(CWODJAGR+CWODJFR1)+FWOD
 EBC38R33=EBC38R38+EBC38R34
 EBC38R49=CVODJAC+FWOD
 EBC38R55=CVODJRLW+FWOD
 EBC38R52=EBC38R55
 EBC38R32=EBC38R33+EBC38R49+EBC38R52
 EBC38R31=EBC38R32
 EBC38R30=EBC38R31-EBC38R06

(38) Charcoal

EBC39R01=FCCH+FCCH
 EBC39R05=(VCHR(-1)-VCHR)+FCCH
 EBC39R06=EBC39R01+EBC39R05
 EBC39R49=CCHRJAC+FCCH
 EBC39R32=EBC39R49
 EBC39R31=EBC39R32
 EBC39R30=EBC39R31-EBC39R06

(39) Fuel Ethanol (from Biomass)

EBC40R01=FEON+FEON
 EBC40R03=-FEON+FEON
 EBC40R05=(VEON(-1)-VEON)+FEON

(14)

ERC40R06=ERC40R01+ERC40R03+ERC40R05
 ERC40R54=CEOH3R0D+FEON
 ERC40R52=ERC40R54
 ERC40R32=ERC40R52
 ERC40R59=CEOH1RCH+FEON
 ERC40R61=ERC40R59
 ERC40R31=ERC40R32+ERC40R59
 ERC40R30=ERC40R31+ERC40R06

(40) Agricultural Wastes

ERC41R01=PAGU+FAGU
 ERC41R06=ERC41R01
 ERC41R44=CAGU1CAC+FAGU
 ERC41R38=ERC41R44
 ERC41R34=(CAGU1AGR+CAGU1FRI)+FAGU
 ERC41R33=ERC41R34+ERC41R38
 ERC41R49=CAGU3RAC+FAGU
 ERC41R32=ERC41R33+ERC41R49
 ERC41R31=ERC41R32
 ERC41R30=ERC41R31+ERC41R06

(41) Hydro Generation in Public Utility

ERC42R01=PHPE3PUB+FELI
 ERC42R06=ERC42R01
 ERC42R11=ERC42R06
 ERC42R17=ERC42R11

(42) Nuclear Generation in Public Utility

ERC44R01=PHPE3PUB+FELI
 ERC44R06=ERC44R01
 ERC44R11=ERC44R06
 ERC44R17=ERC44R11

(48) Total of Auto-Generation

ERC51R13=-(ERC01R13+ERC02R13+ERC27R13)+FELO/FELI;
 +(PHAE3AUI+PGAES3AUI+POAES3AUI)+FELO
 ERC51R17=ERC51R13
 ERC51R18=-(AADO1CRF+FADO+AI001CRF+FI00+AHF03CF+FHFO)+FELO/FELI
 ERC51R19=-(AING1RGT+TING)+FELO/FELI
 ERC51R20=-(AADO1REF+FADO+AI001REF+FI00+AHF03REF+FHFO)+FELO/FELI
 ERC51R21=-(AING1NSL+TING)+FELO/FELI
 ERC51R23=-(AADO1PUB+FADO+AI001PUB+FI00+AHF03PUB+FHFO)+FELO/FELI
 ERC51R24=-(AADO1TUG+FADO+AI001TUG+FI00+AHF03TUG+FHFO)+FELO/FELI
 ERC51R27=ERC03R13+FELO/FELI
 ERC51R39=(AADO1FOD+FADO+AI001FOD+FI00+AHF03FOD+FHFO)+FELO/FELI
 ERC51R40=(AADO1TXI+FADO+AI001TXI+FI00+AHF03TXI+FHFO)+FELO/FELI
 ERC51R41=(AADO1RUB+FADO+AI001RUB+FI00+AHF03RUB+FHFO)+FELO/FELI
 ERC51R42=(AADO1PAP+FADO+AI001PAP+FI00+AHF03PAP+FHFO)+FELO/FELI
 ERC51R43=(AADO1FCH+FADO+AI001FCH+FI00+AHF03FCH+FHFO)+FELO/FELI
 ERC51R44=(AADO1CAC+FADO+AI001CAC+FI00+AHF03CAC+FHFO)+FELO/FELI
 ERC51R45=(AADO1IAS+FADO+AI001IAS+FI00+AHF03IAS+FHFO)+FELO/FELI
 ERC51R46=(AADO1NFM+FADO+AI001NFM+FI00+AHF03NFM+FHFO)+FELO/FELI
 ERC51R47=(AADO1NAC+FADO+AI001NAC+FI00+AHF03NAC+FHFO)+FELO/FELI
 ERC51R48=(AADO1SNO+FADO+AI001SNO+FI00+AHF03SNO+FHFO)+FELO/FELI

(43) Geothermal Generation in Public Utility

ERC45R01=POPE3PUB+FELI
 ERC45R06=ERC45R01
 ERC45R11=ERC45R06
 ERC45R17=ERC45R11

(44) Other Generation in Public Utility

ERC47R01=POPE3PUB+FELI
 ERC47R06=ERC47R01
 ERC47R11=ERC47R06
 ERC47R17=ERC47R11

(45) Hydro Auto-Generation

ERC43R01=PHAE3AUI+FELI
 ERC43R06=ERC43R01
 ERC43R13=ERC43R06
 ERC43R17=ERC43R13

(46) Other Auto-Generation

ERC48R01=POAES3AUI+FELI
 ERC48R06=ERC48R01
 ERC48R13=ERC48R06
 ERC48R17=ERC48R13

(47) Geothermal Auto-Generation

ERC46R01=PGAES3AUI+FELI
 ERC46R06=ERC46R01
 ERC46R13=ERC46R06
 ERC46R17=ERC46R13

EBC51R38-EBC51R39+EBC51R40+EBC51R41+EBC51R42+EBC51R43;
 +EBC51R44+EBC51R45+EBC51R46+EBC51R47+EBC51R48
 EBC51R34=(AABQ3AGR+FA00+AIBQ3AGR+FI00+AHFQ3AGR+FHFD)+FELO/FELE;
 +CAABQ3FRT+FA00+AIBQ3FRT+FI00+AHFQ3FRT+FHFD)+FELO/FELE
 EBC51R36=(AABQ3NIR+FA00+AIBQ3NIR+FI00+AHFQ3NIR+FHFD)+FELO/FELE+PHAF SAUT+FELO
 EBC51R37=(AABQ3CON+FA00+AIBQ3CON+FI00+AHFQ3CON+FHFD)+FELO/FELE
 EBC51R33-EBC51R34+EBC51R36+EBC51R37+EBC51R38
 EBC51R49=(AABQ3RAC+FA00+AIBQ3RAC+FI00+AHFQ3RAC+FHFD)+FELO/FELE
 EBC51R58=(AABQ3GAF+FA00+AIBQ3GAF+FI00+AHFQ3GAF+FHFD)+FELO/FELE
 EBC51R32-EBC51R33+EBC51R49+EBC51R58
 EBC51R61-EBC51R43
 EBC51R31-EBC51R32
 EBC51R28-EBC51R31-EBC51R33-EBC51R18-EBC51R20-EBC51R23;
 -EBC51R24-EBC51R27
 EBC51R29-EBC51R18+EBC51R20+EBC51R23+EBC51R24+EBC51R27;
 +EBC51R28+EBC51R19+EBC51R21

(49) Total of Public Utility

EBC50R11=PFEL3PUB+FELO
 EBC50R13=PFEL3AUT+FELO
 EBC50R17=EBC50R11+EBC50R13
 EBC50R18=-HPEL3CRF+FELO
 EBC50R19=-HPEL3RGF+FELO
 EBC50R20=-HPEL3REF+FELO
 EBC50R21=-HPEL3RGL+FELO
 EBC50R23=-HPEL3PUR+FELO
 EBC50R24=-HPEL3VIG+FELO
 EBC50R26=-HPEL3RRG+FELO
 EBC50R39=CFEL3FOD+FELO
 EBC50R40=CFEL3XTI+FELO
 EBC50R41=CFEL3RUB+FELO
 EBC50R42=CFEL3PAF+FELO
 EBC50R43=CFEL3FCH+FELO
 EBC50R44=CFEL3CAC+FELO
 EBC50R45=CFEL3IAS+FELO
 EBC50R46=CFEL3FXR+FELO
 EBC50R47=CFEL3NAC+FELO
 EBC50R48=CFEL3SYO+FELO
 EBC50R38=EBC50R39+EBC50R40+EBC50R41+EBC50R42+EBC50R43;
 +EBC50R44+EBC50R45+EBC50R46+EBC50R47+EBC50R48
 EBC50R34=(CFEL3AGR+CFEL3FRT)+FELO
 EBC50R36=CFEL3NIR+FELO
 EBC50R37=CFEL3CON+FELO
 EBC50R33=CFEL3TIN+FELO
 EBC50R49=CFEL3RAC+FELO
 EBC50R55=CFEL3RLY+FELO
 EBC50R52=EBC50R55
 EBC50R58=CFEL3GAF+FELO
 EBC50R32=EBC50R33+EBC50R49+EBC50R52+EBC50R58
 EBC50R61-EBC50R43
 EBC50R31-EBC50R32
 EBC50R28-EBC50R31-EBC50R17-EBC50R18-EBC50R19-EBC50R20;
 -EBC50R21-EBC50R23-EBC50R24-EBC50R26
 EBC50R29+EBC50R18+EBC50R19+EBC50R20+EBC50R21+EBC50R23;
 +EBC50R24+EBC50R26+EBC50R28

(16)

(50) Electricity Total

EBC49R11=EBC50R11
EBC49R13=EBC51R13+EBC50R13
EBC49R17=EBC50R17+EBC51R17
EBC49R18=EBC50R18+EBC51R18
EBC49R19=EBC50R19
EBC49R20=EBC50R20+EBC51R20
EBC49R21=EBC50R21
EBC49R23=EBC50R23+EBC51R23
EBC49R24=EBC50R24+EBC51R24
EBC49R26=EBC50R26
EBC49R27=EBC51R27
EBC49R39=EBC50R39+EBC51R39
EBC49R40=EBC50R40+EBC51R40
EBC49R41=EBC50R41+EBC51R41
EBC49R42=EBC50R42+EBC51R42
EBC49R43=EBC50R43+EBC51R43
EBC49R44=EBC50R44+EBC51R44

EBC49R45=EBC50R45+EBC51R45
EBC49R46=EBC50R46+EBC51R46
EBC49R47=EBC50R47+EBC51R47
EBC49R48=EBC50R48+EBC51R48
EBC49R38=EBC50R38+EBC51R38
EBC49R34=EBC50R34+EBC51R34
EBC49R36=EBC50R36+EBC51R36
EBC49R37=EBC50R37+EBC51R37
EBC49R33=EBC50R33+EBC51R33
EBC49R49=EBC50R49+EBC51R49
EBC49R55=EBC50R55
EBC49R52=EBC50R52
EBC49R58=EBC50R58+EBC51R58
EBC49R32=EBC50R32+EBC51R32
EBC49R61=EBC50R61+EBC51R61
EBC49R31=EBC50R31+EBC51R31
EBC49R28=EBC50R28+EBC51R28
EBC49R29=EBC50R29+EBC51R29

(51) Grand Total

EBC52R01=EBC01R01+EBC06R01+EBC29R01+EBC38R01+EBC37R01;
+EBC40R01+EBC41R01+EBC42R01+EBC43R01+EBC44R01;
+EBC45R01+EBC46R01+EBC47R01+EBC48R01
EBC52R02=EBC01R02+EBC06R02+EBC09R02+EBC34R02
EBC52R03=EBC01R03+EBC06R03+EBC09R03+EBC30R03+EBC31R03;
+EBC32R03+EBC40R03
EBC52R04=EBC09R04
EBC52R05=EBC01R05+EBC06R05+EBC09R05+EBC34R05+EBC37R05;
+EBC38R05+EBC39R05+EBC40R05
EBC52R06=EBC01R06+EBC06R06+EBC09R06+EBC29R06+EBC30R06;
+EBC31R06+EBC32R06+EBC34R06+EBC37R06+EBC38R06;
+EBC39R06+EBC40R06+EBC41R06+EBC42R06+EBC43R06;
+EBC44R06+EBC45R06+EBC46R06+EBC47R06+EBC48R06
EBC52R07=EBC06R07+EBC09R07
EBC52R08=EBC09R08+EBC29R08+EBC30R08+EBC31R08
EBC52R09=EBC09R09+EBC29R09+EBC30R09+EBC32R09
EBC52R11=EBC01R11+EBC09R11+EBC29R11+EBC42R11+EBC44R11;
+EBC45R11+EBC47R11+EBC49R11
EBC52R13=EBC01R13+EBC09R13+EBC43R13+EBC46R13+EBC48R13+EBC49R13+EBC27R13
EBC52R14=EBC01R14+EBC09R14+EBC29R14+EBC33R14+EBC34R14+EBC35R14
EBC52R15=EBC01R15+EBC34R15+EBC35R15
EBC52R16=EBC01R16+EBC37R16
EBC52R17=EBC01R17+EBC06R17+EBC09R17+EBC29R17+EBC30R17;
+EBC31R17+EBC32R17+EBC33R17+EBC34R17+EBC35R17;
+EBC37R17+EBC42R17+EBC43R17+EBC44R17+EBC45R17;
+EBC46R17+EBC47R17+EBC48R17+EBC49R17
EBC52R18=EBC06R18+EBC09R18+EBC49R18
EBC52R19=EBC29R19+EBC49R19
EBC52R20=EBC06R20+EBC09R20+EBC29R20+EBC49R20
EBC52R21=EBC29R21+EBC49R21
EBC52R22=EBC09R22+EBC29R22
EBC52R23=EBC09R23+EBC29R23+EBC49R23
EBC52R24=EBC09R24+EBC29R24+EBC33R24+EBC49R24
EBC52R25=EBC35R25
EBC52R26=EBC49R26

EBC52R27=EBC01R27+EBC49R27
 EBC52R28=EBC01R28+EBC06R28+EBC09R28+EBC29R28+EBC33R28+EBC47R28
 EBC52R29=EBC01R29+EBC06R29+EBC09R29+EBC29R29+EBC33R29;
 +EBC35R29+EBC49R29
 EBC52R39=EBC09R39+EBC49R39
 EBC52R40=EBC09R40+EBC49R40
 EBC52R41=EBC09R41+EBC49R41
 EBC52R42=EBC09R42+EBC49R42
 EBC52R43=EBC09R43+EBC29R43+EBC49R43
 EBC52R44=EBC01R44+EBC09R44+EBC29R44+EBC33R44+EBC37R44;
 +EBC38R44+EBC41R44+EBC49R44
 EBC52R45=EBC09R45+EBC34R45+EBC49R45
 EBC52R46=EBC01R46+EBC09R46+EBC49R46
 EBC52R47=EBC09R47+EBC34R47+EBC49R47
 EBC52R48=EBC01R48+EBC09R48+EBC29R48+EBC49R48+EBC34R48
 EBC52R38=EBC01R38+EBC09R38+EBC29R38+EBC33R38+EBC34R38;
 +EBC37R38+EBC38R38+EBC41R38+EBC49R38
 EBC52R34=EBC09R34+EBC38R34+EBC41R34+EBC49R34
 EBC52R35=EBC09R35
 EBC52R36=EBC01R36+EBC09R36+EBC49R36
 EBC52R37=EBC09R37+EBC49R37
 EBC52R33=EBC01R33+EBC09R33+EBC29R33+EBC33R33+EBC34R33;
 +EBC37R33+EBC38R33+EBC41R33+EBC49R33
 EBC52R49=EBC09R49+EBC29R49+EBC33R49+EBC37R49+EBC38R49;
 +EBC39R49+EBC41R49+EBC49R49
 EBC52R53=EBC09R53
 EBC52R54=EBC09R54+EBC32R54+EBC40R54
 EBC52R55=EBC01R55+EBC09R55+EBC38R55+EBC49R55
 EBC52R56=EBC09R56
 EBC52R57=EBC09R57
 EBC52R52=EBC01R52+EBC09R52+EBC32R52+EBC38R52+EBC40R52;
 +EBC49R52
 EBC52R58=EBC09R58+EBC49R58
 EBC52R32=EBC01R32+EBC09R32+EBC29R32+EBC32R32+EBC33R32;
 +EBC34R32+EBC37R32+EBC38R32+EBC39R32+EBC40R32+EBC41R32+EBC49R32
 EBC52R59=EBC09R59+EBC29R59+EBC32R59+EBC40R59
 EBC52R60=EBC01R60+EBC09R60
 EBC52R61=EBC09R61+EBC29R61+EBC32R61+EBC40R61+EBC49R61
 EBC52R31=EBC01R31+EBC09R31+EBC29R31+EBC32R31+EBC33R31;
 +EBC34R31+EBC37R31+EBC38R31+EBC39R31+EBC40R31;
 +EBC41R31+EBC49R31
 EBC52R30=EBC01R30+EBC06R30+EBC09R30+EBC29R30+EBC30R30;
 +EBC31R30+EBC32R30+EBC33R30+EBC34R30+EBC35R30;
 +EBC37R30+EBC38R30+EBC39R30+EBC40R30+EBC41R30

(18)

3. Preparing Method of Commodity Balance Equations

The code, CBC**R**, preceding numerical values shown in each field of the commodity balance table consists of initial letters; CB stands for "Commodity Balance." C for "Column," and R for "Row." Stated in the positions of the marks of "**" are specific numbers of a column or a row.

The data on individual types of energy shown in the fiscal 1980 commodity balance table were obtained by adjusting numerical values shown in the energy balance table with appropriate heat quantity scale factors. For instance, commodity balance equations for domestic production and import of steam coal are expressed as follows.

Domestic Production

$$\text{CBC03R01} = \text{EBC03R01}/\text{FSCO}$$

Import

$$\text{CBC03R02} = \text{EBC03R02}/\text{FSCO}$$

However, because a numerical display acceptable for the balance tables is six-digit figures at the largest, a numerical value, which consists of more than six-digit figures as the result of adjustment with a heat quantity scale factor, should be modulated by changing the scale of its unit. For example, data on crude oil are shown in a unit of BBL. Though the unit of BBL is acceptable when the data are to be contained in the basic energy statistics, it is not when the data are to be contained in the commodity balance table. This is because the data, when adjusted with a scale factor, come to consist of figures exceeding six-digit. Accordingly, the data should be shown in a unit of 10^3 BBL in the commodity balance table. In these cases, commodity balance equations are modulated based on power-law to offset the difference in the scale of units. In consequence, they are expressed as follows.

Domestic Production of Crude Oil

$$\text{CBC07R01} = \text{EBC0701}/\text{FOCR}/10^{**3}$$

Import of Crude Oil

$$\text{CBC07R02} = \text{EBC07R02}/\text{FOCR}/10^{**3}$$

Export of Crude Oil

$$\text{CBC07R03} = \text{EBC07R03}/\text{FOCR}/10^{**3}$$

Due to the absence of heat quantity scale factors peculiar to such fields as "coal/total," "crude oil/total" and "fuel oil/total" of the commodity balance table, numerical values stated in the columns of individual types of energy in the commodity balance table are summed up to produce the total. For instance, domestic production to be stated in the column of "coal/total" is expressed as follows.

$$\text{CBC01R01} = \text{CBC03R01} + \text{CBC04R01} + \text{CBC05R01}$$

4. List of Commodity Balance Equations

(1) Coking Coal

CBC02R02=EBC02R02/FCCO
 CBC02R05=EBC02R05/FCCO
 CBC02R06=EBC02R06/FCCO
 CBC02R11=EBC02R11/FCCO
 CBC02R15=EBC02R15/FCCO
 CBC02R17=EBC02R17/FCCO
 CBC02R28=EBC02R28/FCCO
 CBC02R29=EBC02R29/FCCO
 CBC02R30=EBC02R30/FCCO

(2) Steam Coal

CBC03R01=EBC03R01/FSCO
 CBC03R03=EBC03R03/FSCO
 CBC03R05=EBC03R05/FSCO
 CBC03R06=EBC03R06/FSCO
 CBC03R11=EBC03R11/FSCO
 CBC03R13=EBC03R13/FSCO
 CBC03R14=EBC03R14/FSCO
 CBC03R16=EBC03R16/FSCO
 CBC03R17=EBC03R17/FSCO
 CBC03R27=EBC03R27/FSCO
 CBC03R28=EBC03R28/FSCO
 CBC03R29=EBC03R29/FSCO
 CBC03R44=EBC03R44/FSCO
 CBC03R46=EBC03R46/FSCO
 CBC03R36=EBC03R36/FSCO
 CBC03R36=EBC03R36/FSCO
 CBC03R33=EBC03R33/FSCO
 CBC03R55=EBC03R55/FSCO
 CBC03R32=EBC03R32/FSCO
 CBC03R52=EBC03R52/FSCO
 CBC03R31=EBC03R31/FSCO
 CBC03R30=EBC03R30/FSCO

(3) Anthracite

CBC04R01=EBC04R01/FACO
 CBC04R03=EBC04R03/FACO
 CBC04R05=EBC04R05/FACO
 CBC04R06=EBC04R06/FACO
 CBC04R27=EBC04R27/FACO
 CBC04R28=EBC04R28/FACO
 CBC04R29=EBC04R29/FACO
 CBC04R46=EBC04R46/FACO
 CBC04R38=EBC04R38/FACO
 CBC04R36=EBC04R36/FACO
 CBC04R33=EBC04R33/FACO
 CBC04R32=EBC04R32/FACO
 CBC04R59=EBC04R59/FACO
 CBC04R31=EBC04R31/FACO
 CBC04R30=EBC04R30/FACO

(4) Lignite

CBC05R01=EBC05R01/FCCO
 CBC05R05=EBC05R05/FCCO
 CBC05R06=EBC05R06/FCCO
 CBC05R28=EBC05R28/FCCO
 CBC05R29=EBC05R29/FCCO
 CBC05R44=EBC05R44/FCCO
 CBC05R38=EBC05R38/FCCO
 CBC05R33=EBC05R33/FCCO
 CBC05R32=EBC05R32/FCCO
 CBC05R31=EBC05R31/FCCO
 CBC05R30=EBC05R30/FCCO

(5) Original Crude Oil

CBC07R01=EBC07R01/FOCR/10+3
 CBC07R02=EBC07R02/FOCR/10+3
 CBC07R03=EBC07R03/FOCR/10+3
 CBC07R05=EBC07R05/FOCR/10+3
 CBC07R06=EBC07R06/FOCR/10+3
 CBC07R07=EBC07R07/FOCR/10+3
 CBC07R17=EBC07R17/FOCR/10+3
 CBC07R18=EBC07R18/FOCR/10+3
 CBC07R20=EBC07R20/FOCR/10+3
 CBC07R28=EBC07R28/FOCR/10+3
 CBC07R29=EBC07R29/FOCR/10+3
 CBC07R30=EBC07R30/FOCR/10+3

(6) Reduced Crude Oil

CBC08R02=EBC08R02/FABS/10+3
 CBC08R05=EBC08R05/FABS/10+3
 CBC08R06=EBC08R06/FABS/10+3
 CBC08R07=EBC08R07/FABS/10+3
 CBC08R17=EBC08R17/FABS/10+3
 CBC08R28=EBC08R28/FABS/10+3
 CBC08R29=EBC08R29/FABS/10+3
 CBC08R30=EBC08R30/FABS/10+3

(7) Aviation Gasoline

CBC12R02=EBC12R02/FAGS/10+3
 CBC12R03=EBC12R03/FAGS/10+3
 CBC12R04=EBC12R04/FAGS/10+3
 CBC12R05=EBC12R05/FAGS/10+3
 CBC12R06=EBC12R06/FAGS/10+3
 CBC12R07=EBC12R07/FAGS/10+3
 CBC12R17=EBC12R17/FAGS/10+3
 CBC12R28=EBC12R28/FAGS/10+3
 CBC12R29=EBC12R29/FAGS/10+3
 CBC12R53=EBC12R53/FAGS/10+3
 CBC12R57=EBC12R57/FAGS/10+3
 CBC12R52=EBC12R52/FAGS/10+3
 CBC12R58=EBC12R58/FAGS/10+3
 CBC12R32=EBC12R32/FAGS/10+3
 CBC12R31=EBC12R31/FAGS/10+3
 CBC12R30=EBC12R30/FAGS/10+3

(20)

(8) Super Gasoline

CBC13R02=EBC13R02/FSGS/10+3
CBC13R05=EBC13R05/FSGS/10+3
CBC13R06=EBC13R06/FSGS/10+3
CBC13R07=EBC13R07/FSGS/10+3
CBC13R17=EBC13R17/FSGS/10+3
CBC13R28=EBC13R28/FSGS/10+3
CBC13R29=EBC13R29/FSGS/10+3
CBC13R54=EBC13R54/FSGS/10+3
CBC13R52=EBC13R52/FSGS/10+3
CBC13R58=EBC13R58/FSGS/10+3
CBC13R32=EBC13R32/FSGS/10+3
CBC13R31=EBC13R31/FSGS/10+3
CBC13R30=EBC13R30/FSGS/10+3

(9) Premium Gasoline

CBC14R02=EBC14R02/FFGS/10+3
CBC14R03=EBC14R03/FFGS/10+3
CBC14R05=EBC14R05/FFGS/10+3
CBC14R06=EBC14R06/FFGS/10+3
CBC14R07=EBC14R07/FFGS/10+3
CBC14R17=EBC14R17/FFGS/10+3
CBC14R28=EBC14R28/FFGS/10+3
CBC14R29=EBC14R29/FFGS/10+3
CBC14R54=EBC14R54/FFGS/10+3
CBC14R56=EBC14R56/FFGS/10+3
CBC14R52=EBC14R52/FFGS/10+3
CBC14R58=EBC14R58/FFGS/10+3
CBC14R32=EBC14R32/FFGS/10+3
CBC14R31=EBC14R31/FFGS/10+3
CBC14R30=EBC14R30/FFGS/10+3

(10) Jet Fuel

CBC15R02=EBC15R02/FJET/10+3
CBC15R03=EBC15R03/FJET/10+3
CBC15R04=EBC15R04/FJET/10+3
CBC15R05=EBC15R05/FJET/10+3
CBC15R06=EBC15R06/FJET/10+3
CBC15R07=EBC15R07/FJET/10+3
CBC15R17=EBC15R17/FJET/10+3
CBC15R28=EBC15R28/FJET/10+3
CBC15R29=EBC15R29/FJET/10+3
CBC15R53=EBC15R53/FJET/10+3
CBC15R57=EBC15R57/FJET/10+3
CBC15R52=EBC15R52/FJET/10+3
CBC15R58=EBC15R58/FJET/10+3
CBC15R32=EBC15R32/FJET/10+3
CBC15R31=EBC15R31/FJET/10+3
CBC15R30=EBC15R30/FJET/10+3

(11) Kerosene

CBC16R02=EBC16R02/FKER/10+3
CBC16R05=EBC16R05/FKER/10+3
CBC16R06=EBC16R06/FKER/10+3
CBC16R07=EBC16R07/FKER/10+3

CBC16R14=EBC16R14/FKER/10+3
CBC16R17=EBC16R17/FKER/10+3
CBC16R28=EBC16R28/FKER/10+3
CBC16R29=EBC16R29/FKER/10+3
CBC16R39=EBC16R39/FKER/10+3
CBC16R32=EBC16R32/FKER/10+3
CBC16R31=EBC16R31/FKER/10+3
CBC16R30=EBC16R30/FKER/10+3

(12) Automotive Diesel Oil

CBC18R02=EBC18R02/FADO/10+3
CBC18R03=EBC18R03/FADO/10+3
CBC18R04=EBC18R04/FADO/10+3
CBC18R05=EBC18R05/FADO/10+3
CBC18R06=EBC18R06/FADO/10+3
CBC18R07=EBC18R07/FADO/10+3
CBC18R11=EBC18R11/FADO/10+3
CBC18R13=EBC18R13/FADO/10+3
CBC18R14=EBC18R14/FADO/10+3
CBC18R17=EBC18R17/FADO/10+3
CBC18R18=EBC18R18/FADO/10+3
CBC18R20=EBC18R20/FADO/10+3
CBC18R23=EBC18R23/FADO/10+3
CBC18R24=EBC18R24/FADO/10+3
CBC18R28=EBC18R28/FADO/10+3
CBC18R29=EBC18R29/FADO/10+3
CBC18R39=EBC18R39/FADO/10+3
CBC18R40=EBC18R40/FADO/10+3
CBC18R41=EBC18R41/FADO/10+3
CBC18R42=EBC18R42/FADO/10+3
CBC18R43=EBC18R43/FADO/10+3
CBC18R44=EBC18R44/FADO/10+3
CBC18R45=EBC18R45/FADO/10+3
CBC18R46=EBC18R46/FADO/10+3
CBC18R47=EBC18R47/FADO/10+3
CBC18R48=EBC18R48/FADO/10+3
CBC18R38=EBC18R38/FADO/10+3
CBC18R34=EBC18R34/FADO/10+3
CBC18R35=EBC18R35/FADO/10+3
CBC18R36=EBC18R36/FADO/10+3
CBC18R37=EBC18R37/FADO/10+3
CBC18R33=EBC18R33/FADO/10+3
CBC18R53=EBC18R53/FADO/10+3
CBC18R54=EBC18R54/FADO/10+3
CBC18R55=EBC18R55/FADO/10+3
CBC18R56=EBC18R56/FADO/10+3
CBC18R57=EBC18R57/FADO/10+3
CBC18R52=EBC18R52/FADO/10+3
CBC18R58=EBC18R58/FADO/10+3
CBC18R61=EBC18R61/FADO/10+3
CBC18R32=EBC18R32/FADO/10+3
CBC18R31=EBC18R31/FADO/10+3
CBC18R30=EBC18R30/FADO/10+3

(13) Industrial Diesel Oil

CBC19R02-EBC19R02/F100/10+3
 CBC19R03-EBC19R03/F100/10+3
 CBC19R04-EBC19R04/F100/10+3
 CBC19R05-EBC19R05/F100/10+3
 CBC19R06-EBC19R06/F100/10+3
 CBC19R07-EBC19R07/F100/10+3
 CBC19R11-EBC19R11/F100/10+3
 CBC19R13-EBC19R13/F100/10+3
 CBC19R14-EBC19R14/F100/10+3
 CBC19R17-EBC19R17/F100/10+3
 CBC19R18-EBC19R18/F100/10+3
 CBC19R20-EBC19R20/F100/10+3
 CBC19R23-EBC19R23/F100/10+3
 CBC19R24-EBC19R24/F100/10+3
 CBC19R28-EBC19R28/F100/10+3
 CBC19R29-EBC19R29/F100/10+3
 CBC19R39-EBC19R39/F100/10+3
 CBC19R40-EBC19R40/F100/10+3
 CBC19R41-EBC19R41/F100/10+3
 CBC19R42-EBC19R42/F100/10+3
 CBC19R43-EBC19R43/F100/10+3
 CBC19R44-EBC19R44/F100/10+3
 CBC19R45-EBC19R45/F100/10+3
 CBC19R47-EBC19R47/F100/10+3
 CBC19R48-EBC19R48/F100/10+3
 CBC19R38-EBC19R38/F100/10+3
 CBC19R34-EBC19R34/F100/10+3
 CBC19R36-EBC19R36/F100/10+3
 CBC19R37-EBC19R37/F100/10+3
 CBC19R33-EBC19R33/F100/10+3
 CBC19R54-EBC19R54/F100/10+3
 CBC19R55-EBC19R55/F100/10+3
 CBC19R56-EBC19R56/F100/10+3
 CBC19R57-EBC19R57/F100/10+3
 CBC19R52-EBC19R52/F100/10+3
 CBC19R58-EBC19R58/F100/10+3
 CBC19R61-EBC19R61/F100/10+3
 CBC19R32-EBC19R32/F100/10+3
 CBC19R31-EBC19R31/F100/10+3
 CBC19R30-EBC19R30/F100/10+3

(14) Heavy Fuel Oil

CBC20R02-EBC20R02/FHFO/10+3
 CBC20R03-EBC20R03/FHFO/10+3
 CBC20R04-EBC20R04/FHFO/10+3
 CBC20R05-EBC20R05/FHFO/10+3
 CBC20R06-EBC20R06/FHFO/10+3
 CBC20R07-EBC20R07/FHFO/10+3
 CBC20R11-EBC20R11/FHFO/10+3
 CBC20R13-EBC20R13/FHFO/10+3
 CBC20R14-EBC20R14/FHFO/10+3
 CBC20R17-EBC20R17/FHFO/10+3
 CBC20R18-EBC20R18/FHFO/10+3
 CBC20R20-EBC20R20/FHFO/10+3

CBC20R23-EBC20R23/FHFO/10+3
 CBC20R28-EBC20R28/FHFO/10+3
 CBC20R29-EBC20R29/FHFO/10+3
 CBC20R39-EBC20R39/FHFO/10+3
 CBC20R40-EBC20R40/FHFO/10+3
 CBC20R41-EBC20R41/FHFO/10+3
 CBC20R42-EBC20R42/FHFO/10+3
 CBC20R43-EBC20R43/FHFO/10+3
 CBC20R44-EBC20R44/FHFO/10+3
 CBC20R45-EBC20R45/FHFO/10+3
 CBC20R46-EBC20R46/FHFO/10+3
 CBC20R47-EBC20R47/FHFO/10+3
 CBC20R48-EBC20R48/FHFO/10+3
 CBC20R38-EBC20R38/FHFO/10+3
 CBC20R34-EBC20R34/FHFO/10+3
 CBC20R36-EBC20R36/FHFO/10+3
 CBC20R37-EBC20R37/FHFO/10+3
 CBC20R33-EBC20R33/FHFO/10+3
 CBC20R54-EBC20R54/FHFO/10+3
 CBC20R55-EBC20R55/FHFO/10+3
 CBC20R56-EBC20R56/FHFO/10+3
 CBC20R57-EBC20R57/FHFO/10+3
 CBC20R52-EBC20R52/FHFO/10+3
 CBC20R58-EBC20R58/FHFO/10+3
 CBC20R61-EBC20R61/FHFO/10+3
 CBC20R32-EBC20R32/FHFO/10+3
 CBC20R31-EBC20R31/FHFO/10+3
 CBC20R30-EBC20R30/FHFO/10+3

(15) Naphtha

CBC21R03-EBC21R03/FHAP/10+3
 CBC21R05-EBC21R05/FHAP/10+3
 CBC21R06-EBC21R06/FHAP/10+3
 CBC21R07-EBC21R07/FHAP/10+3
 CBC21R09-EBC21R09/FHAP/10+3
 CBC21R17-EBC21R17/FHAP/10+3
 CBC21R20-EBC21R20/FHAP/10+3
 CBC21R22-EBC21R22/FHAP/10+3
 CBC21R28-EBC21R28/FHAP/10+3
 CBC21R29-EBC21R29/FHAP/10+3
 CBC21R43-EBC21R43/FHAP/10+3
 CBC21R38-EBC21R38/FHAP/10+3
 CBC21R33-EBC21R33/FHAP/10+3
 CBC21R32-EBC21R32/FHAP/10+3
 CBC21R59-EBC21R59/FHAP/10+3
 CBC21R61-EBC21R61/FHAP/10+3
 CBC21R31-EBC21R31/FHAP/10+3
 CBC21R30-EBC21R30/FHAP/10+3

(16) Low Sulfur Waxy Residue

CBC22R03-EBC22R03/FLSR/10+3
 CBC22R05-EBC22R05/FLSR/10+3
 CBC22R06-EBC22R06/FLSR/10+3
 CBC22R07-EBC22R07/FLSR/10+3
 CBC22R17-EBC22R17/FLSR/10+3

(22)

CFC22R20-EBC22R20/FLSR/10113
CFC22R28-EBC22R28/FLSR/10113
CFC22R29-EBC22R29/FLSR/10113
CFC22R30-EBC22R30/FLSR/10113

(17) Lubricants

CFC23R02-EBC23R02/FLUB/10113
CFC23R05-EBC23R05/FLUB/10113
CFC23R06-EBC23R06/FLUB/10113
CFC23R07-EBC23R07/FLUB/10113
CFC23R17-EBC23R17/FLUB/10113
CFC23R20-EBC23R20/FLUB/10113
CFC23R28-EBC23R28/FLUB/10113
CFC23R29-EBC23R29/FLUB/10113
CFC23R60-EBC23R60/FLUB/10113
CFC23R31-EBC23R31/FLUB/10113
CFC23R30-EBC23R30/FLUB/10113

(18) Solvents

CFC24R02-EBC24R02/F SOL/10113
CFC24R03-EBC24R03/F SOL/10113
CFC24R05-EBC24R05/F SOL/10113
CFC24R06-EBC24R06/F SOL/10113
CFC24R07-EBC24R07/F SOL/10113
CFC24R17-EBC24R17/F SOL/10113
CFC24R20-EBC24R20/F SOL/10113
CFC24R28-EBC24R28/F SOL/10113
CFC24R29-EBC24R29/F SOL/10113
CFC24R60-EBC24R60/F SOL/10113
CFC24R31-EBC24R31/F SOL/10113
CFC24R30-EBC24R30/F SOL/10113

(19) Other Petroleum Products

— Asphalts, Grease, Waxes —

CFC25R02-EBC25R02/FASP/10113
CFC25R03-EBC25R03/FASP/10113
CFC25R05-EBC25R05/FASP/10113
CFC25R06-EBC25R06/FASP/10113
CFC25R07-EBC25R07/FASP/10113
CFC25R17-EBC25R17/FASP/10113
CFC25R20-EBC25R20/FASP/10113
CFC25R28-EBC25R28/FASP/10113
CFC25R29-EBC25R29/FASP/10113
CFC25R60-EBC25R60/FASP/10113
CFC25R31-EBC25R31/FASP/10113
CFC25R30-EBC25R30/FASP/10113

(20) Petroleum Coke

CFC26R05-EBC26R05/FPCK/10113
CFC26R06-EBC26R06/FPCK/10113
CFC26R07-EBC26R07/FPCK/10113
CFC26R17-EBC26R17/FPCK/10113
CFC26R20-EBC26R20/FPCK/10113
CFC26R28-EBC26R28/FPCK/10113
CFC26R29-EBC26R29/FPCK/10113
CFC26R16-EBC26R16/FPCK/10113

CFC26R36-EBC26R36/FPCK/10113
CFC26R33-EBC26R33/FPCK/10113
CFC26R32-EBC26R32/FPCK/10113
CFC26R60-EBC26R60/FPCK/10113
CFC26R31-EBC26R31/FPCK/10113
CFC26R30-EBC26R30/FPCK/10113

(21) Refinery Gas

CFC27R07-EBC27R07/FRFG
CFC27R17-EBC27R17/FRFG
CFC27R20-EBC27R20/FRFG
CFC27R28-EBC27R28/FRFG
CFC27R29-EBC27R29/FRFG
CFC27R30-EBC27R30/FRFG

(22) LPG

CFC28R02-EBC28R02/FLPG/10113
CFC28R05-EBC28R05/FLPG/10113
CFC28R06-EBC28R06/FLPG/10113
CFC28R07-EBC28R07/FLPG/10113
CFC28R08-EBC28R08/FLPG/10113
CFC28R17-EBC28R17/FLPG/10113
CFC28R20-EBC28R20/FLPG/10113
CFC28R28-EBC28R28/FLPG/10113
CFC28R29-EBC28R29/FLPG/10113
CFC28R48-EBC28R48/FLPG/10113
CFC28R36-EBC28R36/FLPG/10113
CFC28R35-EBC28R35/FLPG/10113
CFC28R33-EBC28R33/FLPG/10113
CFC28R49-EBC28R49/FLPG/10113
CFC28R54-EBC28R54/FLPG/10113
CFC28R52-EBC28R52/FLPG/10113
CFC28R59-EBC28R59/FLPG/10113
CFC28R61-EBC28R61/FLPG/10113
CFC28R32-EBC28R32/FLPG/10113
CFC28R31-EBC28R31/FLPG/10113
CFC28R30-EBC28R30/FLPG/10113

(23) Natural Gas

CFC29R01-EBC29R01/FING/10113
CFC29R06-EBC29R06/FING/10113
CFC29R08-EBC29R08/FING/10113
CFC29R07-EBC29R07/FING/10113
CFC29R11-EBC29R11/FING/10113
CFC29R13-EBC29R13/FING/10113
CFC29R14-EBC29R14/FING/10113
CFC29R17-EBC29R17/FING/10113
CFC29R19-EBC29R19/FING/10113
CFC29R20-EBC29R20/FING/10113
CFC29R21-EBC29R21/FING/10113
CFC29R22-EBC29R22/FING/10113
CFC29R23-EBC29R23/FING/10113
CFC29R24-EBC29R24/FING/10113
CFC29R28-EBC29R28/FING/10113
CFC29R29-EBC29R29/FING/10113

CBC29R43=EBC29R43/FING/10+3
 CBC29R44=EBC29R44/FING/10+3
 CBC29R48=EBC29R48/FING/10+3
 CBC29R38=EBC29R38/FING/10+3
 CBC29R33=EBC29R33/FING/10+3
 CBC29R49=EBC29R49/FING/10+3
 CBC29R32=EBC29R32/FING/10+3
 CBC29R59=EBC29R59/FING/10+3
 CBC29R61=EBC29R61/FING/10+3
 CBC29R31=EBC29R31/FING/10+3
 CBC29R30=EBC29R30/FING/10+3

(24) NGL

CBC30R03=EBC30R03/FCOH/10+3
 CBC30R06=EBC30R06/FCOH/10+3
 CBC30R08=EBC30R08/FCOH/10+3
 CBC30R09=EBC30R09/FCOH/10+3
 CBC30R17=EBC30R17/FCOH/10+3
 CBC30R30=EBC30R30/FCOH/10+3

(25) LNG

CBC31R03=EBC31R03/FLNG/10+3
 CBC31R06=EBC31R06/FLNG/10+3
 CBC31R08=EBC31R08/FLNG/10+3
 CBC31R17=EBC31R17/FLNG/10+3
 CBC31R30=EBC31R30/FLNG/10+3

(26) Methanol

CBC32R03=EBC32R03/FMOA/10+3
 CBC32R06=EBC32R06/FMOA/10+3
 CBC32R09=EBC32R09/FMOA/10+3
 CBC32R17=EBC32R17/FMOA/10+3
 CBC32R54=EBC32R54/FMOA/10+3
 CBC32R52=EBC32R52/FMOA/10+3
 CBC32R32=EBC32R32/FMOA/10+3
 CBC32R59=EBC32R59/FMOA/10+3
 CBC32R61=EBC32R61/FMOA/10+3
 CBC32R31=EBC32R31/FMOA/10+3
 CBC32R30=EBC32R30/FMOA/10+3

(27) Town Gas

CBC33R14=EBC33R14/FIUG/10+3
 CBC33R17=EBC33R17/FIUG/10+3
 CBC33R24=EBC33R24/FIUG/10+3
 CBC33R28=EBC33R28/FIUG/10+3
 CBC33R29=EBC33R29/FIUG/10+3
 CBC33R44=EBC33R44/FIUG/10+3
 CBC33R38=EBC33R38/FIUG/10+3
 CBC33R33=EBC33R33/FIUG/10+3
 CBC33R49=EBC33R49/FIUG/10+3
 CBC33R32=EBC33R32/FIUG/10+3
 CBC33R31=EBC33R31/FIUG/10+3
 CBC33R30=EBC33R30/FIUG/10+3

(28) Coke

CBC34R02=EBC34R02/FCOK
 CBC34R05=EBC34R05/FCOK
 CBC34R06=EBC34R06/FCOK
 CBC34R14=EBC34R14/FCOK
 CBC34R15=EBC34R15/FCOK
 CBC34R17=EBC34R17/FCOK
 CBC34R45=EBC34R45/FCOK
 CBC34R47=EBC34R47/FCOK
 CBC34R38=EBC34R38/FCOK
 CBC34R33=EBC34R33/FCOK
 CBC34R32=EBC34R32/FCOK
 CBC34R31=EBC34R31/FCOK
 CBC34R30=EBC34R30/FCOK

(29) Coke Oven Gas

CBC35R14=EBC35R14/FCKG
 CBC35R15=EBC35R15/FCKG
 CBC35R17=EBC35R17/FCKG
 CBC35R25=EBC35R25/FCKG
 CBC35R29=EBC35R29/FCKG
 CBC35R30=EBC35R30/FCKG

(30) Briquet

CBC37R05=EBC37R05/FBRQ
 CBC37R06=EBC37R06/FBRQ
 CBC37R16=EBC37R16/FBRQ
 CBC37R17=EBC37R17/FBRQ
 CBC37R44=EBC37R44/FBRQ
 CBC37R36=EBC37R36/FBRQ
 CBC37R33=EBC37R33/FBRQ
 CBC37R49=EBC37R49/FBRQ
 CBC37R32=EBC37R32/FBRQ
 CBC37R31=EBC37R31/FBRQ
 CBC37R30=EBC37R30/FBRQ

(31) Wood

CBC38R01=EBC38R01/FWOD/10+3
 CBC38R05=EBC38R05/FWOD/10+3
 CBC38R06=EBC38R06/FWOD/10+3
 CBC38R44=EBC38R44/FWOD/10+3
 CBC38R38=EBC38R38/FWOD/10+3
 CBC38R34=EBC38R34/FWOD/10+3
 CBC38R33=EBC38R33/FWOD/10+3
 CBC38R49=EBC38R49/FWOD/10+3
 CBC38R55=EBC38R55/FWOD/10+3
 CBC38R52=EBC38R52/FWOD/10+3
 CBC38R32=EBC38R32/FWOD/10+3
 CBC38R31=EBC38R31/FWOD/10+3
 CBC38R30=EBC38R30/FWOD/10+3

(32) Charcoal

CBC39R01=EBC39R01/FCNR
 CBC39R05=EBC39R05/FCNR
 CBC39R06=EBC39R06/FCNR

(24)

CBC39R49=EBC39R49/FCHR
CBC39R32=EBC39R32/FCHR
CBC39R31=EBC39R31/FCHR
CBC39R30=EBC39R30/FCHR

(33) Fuel Ethanol (from Biomass)

CBC40R01=EBC40R01/FEFA
CBC40R03=EBC40R03/FEFA
CBC40R05=EBC40R05/FEFA
CBC40R06=EBC40R06/FEFA
CBC40R54=EBC40R54/FEFA
CBC40R52=EBC40R52/FEFA
CBC40R59=EBC40R59/FEFA
CBC40R32=EBC40R32/FEFA
CBC40R61=EBC40R61/FEFA
CBC40R31=EBC40R31/FEFA
CBC40R30=EBC40R30/FEFA

(34) Agricultural Wastes

CBC41R01=EBC41R01/FAGW/10+3
CBC41R06=EBC41R06/FAGU/10+3
CBC41R44=EBC41R44/FAGU/10+3
CBC41R38=EBC41R38/FAGU/10+3
CBC41R34=EBC41R34/FAGU/10+3
CBC41R33=EBC41R33/FAGW/10+3
CBC41R49=EBC41R49/FAGU/10+3
CBC41R32=EBC41R32/FAGW/10+3
CBC41R31=EBC41R31/FAGU/10+3
CBC41R30=EBC41R30/FAGU/10+3

(35) Hydro Generation in Public Utility

CBC42R01=EBC42R01/FELI/10+3
CBC42R06=EBC42R06/FELI/10+3
CBC42R11=EBC42R11/FELI/10+3
CBC42R17=EBC42R17/FELI/10+3

(36) Hydro Auto-Generation

CBC43R01=EBC43R01/FELI/10+3
CBC43R06=EBC43R06/FELI/10+3
CBC43R13=EBC43R13/FELI/10+3
CBC43R17=EBC43R17/FELI/10+3

(37) Nuclear Generation in Public Utility

CBC44R01=EBC44R01/FELI/10+3
CBC44R06=EBC44R06/FELI/10+3
CBC44R11=EBC44R11/FELI/10+3
CBC44R17=EBC44R17/FELI/10+3

(38) Geothermal Generation in Public Utility

CBC45R01=EBC45R01/FELI/10+3
CBC45R06=EBC45R06/FELI/10+3
CBC45R11=EBC45R11/FELI/10+3
CBC45R17=EBC45R17/FELI/10+3

(39) Geothermal Auto-Generation

CBC46R01=EBC46R01/FELI/10+3

CBC46R06=EBC46R06/FELI/10+3
CBC46R13=EBC46R13/FELI/10+3
CBC46R17=EBC46R17/FELI/10+3

(40) Other Generation in Public Utility

CBC47R01=EBC47R01/FELI/10+3
CBC47R06=EBC47R06/FELI/10+3
CBC47R11=EBC47R11/FELI/10+3
CBC47R17=EBC47R17/FELI/10+3

(41) Other Auto-Generation

CBC48R01=EBC48R01/FELI/10+3
CBC48R06=EBC48R06/FELI/10+3
CBC48R13=EBC48R13/FELI/10+3
CBC48R17=EBC48R17/FELI/10+3

(42) Electricity Total

CBC49R11=EBC49R11/FELO/10+3
CBC49R13=EBC49R13/FELO/10+3
CBC49R17=EBC49R17/FELO/10+3
CBC49R18=EBC49R18/FELO/10+3
CBC49R19=EBC49R19/FELO/10+3
CBC49R20=EBC49R20/FELO/10+3
CBC49R21=EBC49R21/FELO/10+3
CBC49R23=EBC49R23/FELO/10+3
CBC49R24=EBC49R24/FELO/10+3
CBC49R26=EBC49R26/FELO/10+3
CBC49R27=EBC49R27/FELO/10+3
CBC49R39=EBC49R39/FELO/10+3
CBC49R40=EBC49R40/FELO/10+3
CBC49R41=EBC49R41/FELO/10+3
CBC49R42=EBC49R42/FELO/10+3
CBC49R43=EBC49R43/FELO/10+3
CBC49R44=EBC49R44/FELO/10+3
CBC49R45=EBC49R45/FELO/10+3
CBC49R46=EBC49R46/FELO/10+3
CBC49R47=EBC49R47/FELO/10+3
CBC49R48=EBC49R48/FELO/10+3
CBC49R38=EBC49R38/FELO/10+3
CBC49R34=EBC49R34/FELO/10+3
CBC49R36=EBC49R36/FELO/10+3
CBC49R37=EBC49R37/FELO/10+3
CBC49R33=EBC49R33/FELO/10+3
CBC49R49=EBC49R49/FELO/10+3
CBC49R55=EBC49R55/FELO/10+3
CBC49R52=EBC49R52/FELO/10+3
CBC49R58=EBC49R58/FELO/10+3
CBC49R32=EBC49R32/FELO/10+3
CBC49R61=EBC49R61/FELO/10+3
CBC49R31=EBC49R31/FELO/10+3
CBC49R28=EBC49R28/FELO/10+3
CBC49R29=EBC49R29/FELO/10+3

(43) Total of Public Utility

CBC50R11=EBC50R11/FELO/10+3
CBC50R13=EBC50R13/FELO/10+3

CBC50R17=EBCS0R17/FELO/10+13
 CBC50R18=EBCS0R18/FELO/10+13
 CBC50R19=EBCS0R19/FELO/10+13
 CBC50R20=EBCS0R20/FELO/10+13
 CBC50R21=EBCS0R21/FELO/10+13
 CBC50R23=EBCS0R23/FELO/10+13
 CBC50R24=EBCS0R24/FELO/10+13
 CBC50R26=EBCS0R26/FELO/10+13
 CBC50R37=EBCS0R37/FELO/10+13
 CBC50R40=EBCS0R40/FELO/10+13
 CBC50R41=EBCS0R41/FELO/10+13
 CBC50R42=EBCS0R42/FELO/10+13
 CBC50R43=EBCS0R43/FELO/10+13
 CBC50R44=EBCS0R44/FELO/10+13
 CBC50R45=EBCS0R45/FELO/10+13
 CBC50R46=EBCS0R46/FELO/10+13
 CBC50R47=EBCS0R47/FELO/10+13
 CBC50R48=EBCS0R48/FELO/10+13
 CBC50R35=EBCS0R35/FELO/10+13
 CBC50R34=EBCS0R34/FELO/10+13
 CBC50R36=EBCS0R36/FELO/10+13
 CBC50R37=EBCS0R37/FELO/10+13
 CBC50R33=EBCS0R33/FELO/10+13
 CBC50R49=EBCS0R49/FELO/10+13
 CBC50R55=EBCS0R55/FELO/10+13
 CBC50R52=EBCS0R52/FELO/10+13
 CBC50R58=EBCS0R58/FELO/10+13
 CBC50R32=EBCS0R32/FELO/10+13
 CBC50R61=EBCS0R61/FELO/10+13
 CBC50R31=EBCS0R31/FELO/10+13
 CBC50R26=EBCS0R26/FELO/10+13
 CBC50R27=EBCS0R27/FELO/10+13

(44) Total of Auto-Generation

CBC51R13=EBCS1R13/FELO/10+13
 CBC51R17=EBCS1R17/FELO/10+13
 CBC51R18=EBCS1R18/FELO/10+13
 CBC51R19=EBCS1R19/FELO/10+13
 CBC51R20=EBCS1R20/FELO/10+13
 CBC51R21=EBCS1R21/FELO/10+13
 CBC51R23=EBCS1R23/FELO/10+13
 CBC51R24=EBCS1R24/FELO/10+13
 CBC51R27=EBCS1R27/FELO/10+13
 CBC51R39=EBCS1R39/FELO/10+13
 CBC51R40=EBCS1R40/FELO/10+13
 CBC51R41=EBCS1R41/FELO/10+13
 CBC51R42=EBCS1R42/FELO/10+13
 CBC51R43=EBCS1R43/FELO/10+13
 CBC51R44=EBCS1R44/FELO/10+13
 CBC51R45=EBCS1R45/FELO/10+13
 CBC51R46=EBCS1R46/FELO/10+13
 CBC51R47=EBCS1R47/FELO/10+13
 CBC51R48=EBCS1R48/FELO/10+13
 CBC51R38=EBCS1R38/FELO/10+13
 CBC51R34=EBCS1R34/FELO/10+13

CBC51R36=EBCS1R36/FELO/10+13
 CBC51R37=EBCS1R37/FELO/10+13
 CBC51R33=EBCS1R33/FELO/10+13
 CBC51R49=EBCS1R49/FELO/10+13
 CBC51R58=EBCS1R58/FELO/10+13
 CBC51R32=EBCS1R32/FELO/10+13
 CBC51R61=EBCS1R61/FELO/10+13
 CBC51R31=EBCS1R31/FELO/10+13
 CBC51R28=EBCS1R28/FELO/10+13
 CBC51R29=EBCS1R29/FELO/10+13

(45) Total of Coal

CBC01R01=CB001R01+CB001R01+CB005R01
 CBC01R02=CB002R02
 CBC01R03=CB003R03+CB004R03
 CBC01R05=CB002R05+CB003R05+CB004R05+CB005R05
 CBC01R06=CB002R06+CB003R06+CB004R06+CB005R06
 CBC01R11=CB003R11
 CBC01R13=CB003R13
 CBC01R14=CB002R14+CB003R14
 CBC01R15=CB002R15
 CBC01R16=CB003R16
 CBC01R17=CB002R17+CB003R17
 CBC01R27=CB003R27+CB004R27
 CBC01R28=CB002R28+CB003R28+CB004R28+CB005R28
 CBC01R29=CB002R29+CB003R29+CB004R29+CB005R29
 CBC01R30=CB002R30+CB003R30+CB004R30+CB005R30
 CBC01R31=CB003R31+CB004R31+CB005R31
 CBC01R32=CB003R32+CB004R32+CB005R32
 CBC01R33=CB003R33+CB004R33+CB005R33
 CBC01R36=CB003R36+CB004R36
 CBC01R38=CB003R38+CB004R38+CB005R38
 CBC01R44=CB003R44+CB005R44
 CBC01R46=CB004R46
 CBC01R48=CB003R48
 CBC01R52=CB003R52
 CBC01R55=CB003R55
 CBC01R60=CB004R60

(46) Total of Crude Oil

CBC06R01=CB007R01
 CBC06R02=CB007R02+CB008R02
 CBC06R03=CB007R03
 CBC06R05=CB007R05+CB008R05
 CBC06R06=CB007R06+CB008R06
 CBC06R07=CB007R07+CB008R07
 CBC06R17=CB007R17+CB008R17
 CBC06R18=CB007R18
 CBC06R20=CB007R20
 CBC06R28=CB007R28+CB008R28
 CBC06R29=CB007R29+CB008R29
 CBC06R30=CB007R30+CB008R30

(47) Total of Gasoline

CBC11R02=CB012R02+CB013R02+CB014R02
 CBC11R03=CB012R03+CB014R03

(26)

CBC11R04=CBC12R04
CBC11R05=CBC12R05+CBC13R05+CBC14R05
CBC11R06=CBC12R06+CBC13R06+CBC14R06
CBC11R07=CBC12R07+CBC13R07+CBC14R07
CBC11R17=CBC12R17+CBC13R17+CBC14R17
CBC11R28=CBC12R28+CBC13R28+CBC14R28
CBC11R29=CBC12R29+CBC13R29+CBC14R29
CBC11R30=CBC12R30+CBC13R30+CBC14R30
CBC11R31=CBC12R31+CBC13R31+CBC14R31
CBC11R32=CBC12R32+CBC13R32+CBC14R32
CBC11R52=CBC12R52+CBC13R52+CBC14R52
CBC11R53=CBC12R53
CBC11R54=CBC13R54+CBC14R54
CBC11R56=CBC14R56
CBC11R57=CBC12R57
CBC11R58=CBC12R58+CBC13R58+CBC14R58

(48) Total of Diesel Oil

CBC17R02=CBC18R02+CBC19R02
CBC17R03=CBC18R03+CBC19R03
CBC17R04=CBC18R04+CBC19R04
CBC17R05=CBC18R05+CBC19R05
CBC17R06=CBC18R06+CBC19R06
CBC17R07=CBC18R07+CBC19R07
CBC17R11=CBC18R11+CBC19R11
CBC17R13=CBC18R13+CBC19R13
CBC17R14=CBC18R14+CBC19R14
CBC17R17=CBC18R17+CBC19R17
CBC17R18=CBC18R18+CBC19R18
CBC17R20=CBC18R20+CBC19R20

(49) Total of Fuel Oil

CBC10R02=CBC11R02+CBC15R02+CBC17R02+CBC20R02+CBC16R02
CBC10R03=CBC20R03+CBC11R03+CBC15R03+CBC17R03
CBC10R04=CBC11R04+CBC15R04+CBC17R04+CBC20R04
CBC10R05=CBC11R05+CBC15R05+CBC16R05+CBC17R05+CBC20R05
CBC10R06=CBC11R06+CBC15R06+CBC16R06+CBC17R06+CBC20R06
CBC10R07=CBC11R07+CBC15R07+CBC16R07+CBC17R07+CBC20R07
CBC10R11=CBC17R11+CBC20R11
CBC10R13=CBC17R13+CBC20R13
CBC10R14=CBC16R14+CBC17R14+CBC20R14
CBC10R17=CBC11R17+CBC15R17+CBC16R17+CBC17R17+CBC20R17
CBC10R18=CBC17R18+CBC20R18
CBC10R20=CBC17R20+CBC20R20
CBC10R23=CBC17R23+CBC20R23
CBC10R24=CBC17R24
CBC10R28=CBC11R28+CBC15R28+CBC16R28+CBC17R28+CBC20R28
CBC10R29=CBC11R29+CBC15R29+CBC16R29+CBC17R29+CBC20R29
CBC10R30=CBC11R30+CBC15R30+CBC16R30+CBC17R30+CBC20R30
CBC10R31=CBC11R31+CBC15R31+CBC16R31+CBC17R31+CBC20R31
CBC10R32=CBC11R32+CBC15R32+CBC16R32+CBC17R32+CBC20R32
CBC10R33=CBC17R33+CBC20R33
CBC10R34=CBC17R34+CBC20R34
CBC10R35=CBC17R35
CBC10R38=CBC17R38+CBC20R38

CBC17R23=CBC18R23+CBC19R23
CBC17R24=CBC18R24+CBC19R24
CBC17R28=CBC18R28+CBC19R28
CBC17R29=CBC18R29+CBC19R29
CBC17R30=CBC18R30+CBC19R30
CBC17R31=CBC18R31+CBC19R31
CBC17R32=CBC18R32+CBC19R32
CBC17R33=CBC18R33+CBC19R33
CBC17R34=CBC18R34+CBC19R34
CBC17R35=CBC18R35
CBC17R36=CBC18R36+CBC19R36
CBC17R37=CBC18R37+CBC19R37
CBC17R38=CBC18R38+CBC19R38
CBC17R39=CBC18R39+CBC19R39
CBC17R40=CBC18R40+CBC19R40
CBC17R41=CBC18R41+CBC19R41
CBC17R42=CBC18R42+CBC19R42
CBC17R43=CBC18R43+CBC19R43
CBC17R44=CBC18R44+CBC19R44
CBC17R45=CBC18R45+CBC19R45
CBC17R46=CBC18R46
CBC17R47=CBC18R47+CBC19R47
CBC17R48=CBC18R48+CBC19R48
CBC17R52=CBC18R52+CBC19R52
CBC17R53=CBC18R53
CBC17R54=CBC18R54+CBC19R54
CBC17R55=CBC18R55+CBC19R55
CBC17R56=CBC18R56+CBC19R56
CBC17R57=CBC18R57+CBC19R57
CBC17R58=CBC18R58+CBC19R58
CBC17R61=CBC18R61+CBC19R61

CBC10R37=CBC17R37+CBC20R37
 CBC10R38=CBC17R38+CBC20R38
 CBC10R39=CBC17R39+CBC20R39
 CBC10R40=CBC17R40+CBC20R40
 CBC10R41=CBC17R41+CBC20R41
 CBC10R42=CBC17R42+CBC20R42
 CBC10R43=CBC17R43+CBC20R43
 CBC10R44=CBC17R44+CBC20R44
 CBC10R45=CBC17R45+CBC20R45
 CBC10R46=CBC17R46+CBC20R46
 CBC10R47=CBC17R47+CBC20R47
 CBC10R48=CBC17R48+CBC20R48
 CBC10R49=CBC16R49
 CBC10R52=CBC11R52+CBC15R52+CBC17R52+CBC20R52
 CBC10R53=CBC11R53+CBC15R53+CBC17R53
 CBC10R54=CBC11R54+CBC17R54+CBC20R54
 CBC10R55=CBC17R55+CBC20R55
 CBC10R56=CBC11R56+CBC17R56+CBC20R56
 CBC10R58=CBC11R58+CBC15R58+CBC17R58+CBC20R58
 CBC10R57=CBC11R57+CBC15R57+CBC17R57+CBC20R57
 CBC10R61=CBC17R61+CBC20R61

5. Preparing Method of Concise Energy Balance Equations

The code, CTC**R**, preceding numerical values shown in each field of the concise energy balance table consists of initial letters; CT stands for "Concise Table," C for "Column," and R for "Row." Stated in the positions of the marks of "**" are specific numbers of a column or a row.

The concise energy balance table, to be used as the basic data for preparing an energy supply-demand forecast model, is prepared by summing up data stated in each field of the detailed energy balance table.

Accordingly, the concise energy balance equations employ the codes representing numerical values stated in the detailed energy balance table. Listed below are examples of concise energy balance equations.

Domestic Production of Solid Fuel

$$CTC01R01 = EBC01R01$$

Export of Crude Oil

$$CTC02R03 = EBC06R03$$

Input Automotive Diesel Oil into Power Generation

$$CTC08R09 = EBC18R11 + EBC18R13$$

6. List of Concise Energy Balance Equations

(1) Solid Fuel

CTC01R01=EBC01R01
 CTC01R02=EBC01R02+EBC34R02
 CTC01R03=EBC01R03
 CTC01R05=EBC01R05+EBC34R05+EBC37R05
 CTC01R06=EBC01R06+EBC34R06+EBC37R06
 CTC01R09=EBC01R11+EBC01R13
 CTC01R10=EBC01R14+EBC01R15+EBC01R16
 +EBC34R14+EBC34R15+EBC37R16
 CTC01R11=EBC01R27
 CTC01R12=EBC01R28
 CTC01R13=EBC01R30+EBC34R30+EBC37R30
 CTC01R14=EBC01R31+EBC34R31+EBC37R31
 CTC01R15=EBC01R32+EBC34R32+EBC37R32
 CTC01R16=EBC01R33+EBC34R33+EBC37R33
 CTC01R17=EBC37R49
 CTC01R18=EBC01R52
 CTC01R20=EBC01R60

(2) Crude Oil

CTC02R01=EBC06R01
 CTC02R02=EBC06R02
 CTC02R03=EBC06R03
 CTC02R05=EBC06R05
 CTC02R06=EBC06R06
 CTC02R07=EBC06R07
 CTC02R11=EBC06R18+EBC06R20
 CTC02R12=EBC06R25
 CTC02R13=EBC06R30

(3) Total of Petroleum Products

CTC03R02=EBC09R02
 CTC03R03=EBC09R03
 CTC03R04=EBC09R04
 CTC03R05=EBC09R05
 CTC03R06=EBC09R06
 CTC03R07=EBC09R07
 CTC03R08=EBC09R08+EBC09R09
 CTC03R09=EBC09R11+EBC09R13
 CTC03R10=EBC09R14
 CTC03R11=EBC09R20+EBC09R22+EBC09R23+
 EBC09R24+EBC09R18
 CTC03R12=EBC09R28
 CTC03R13=EBC09R30
 CTC03R14=EBC09R31
 CTC03R15=EBC09R32
 CTC03R16=EBC09R33
 CTC03R17=EBC09R49
 CTC03R18=EBC09R52
 CTC03R19=EBC09R58
 CTC03R20=EBC09R59+EBC09R60

(4) Total of Fuel Oil

CTC04R02=EBC10R02
 CTC04R03=EBC10R03
 CTC04R04=EBC10R04
 CTC04R05=EBC10R05
 CTC04R06=EBC10R06
 CTC04R07=EBC10R07
 CTC04R09=EBC10R11+EBC10R13
 CTC04R10=EBC10R14
 CTC04R11=EBC10R20+EBC10R23+EBC10R24+EBC10R18
 CTC04R12=EBC10R28
 CTC04R13=EBC10R30
 CTC04R14=EBC10R31
 CTC04R15=EBC10R32
 CTC04R16=EBC10R33
 CTC04R17=EBC10R49
 CTC04R18=EBC10R52
 CTC04R19=EBC10R58

(5) Gasoline

CTC05R02=EBC11R02
 CTC05R03=EBC11R03
 CTC05R04=EBC11R04
 CTC05R05=EBC11R05
 CTC05R06=EBC11R06
 CTC05R07=EBC11R07
 CTC05R12=EBC11R28
 CTC05R13=EBC11R30
 CTC05R14=EBC11R31
 CTC05R15=EBC11R32
 CTC05R16=EBC11R52
 CTC05R19=EBC11R58

(6) Jet Fuel

CTC06R02=EBC15R02
 CTC06R03=EBC15R03
 CTC06R04=EBC15R04
 CTC06R05=EBC15R05
 CTC06R06=EBC15R06
 CTC06R07=EBC15R07
 CTC06R12=EBC15R28
 CTC06R13=EBC15R30
 CTC06R14=EBC15R31
 CTC06R15=EBC15R32
 CTC06R16=EBC15R52
 CTC06R19=EBC15R58

(7) Kerosene

CTC07R02=EBC16R02
 CTC07R05=EBC16R05
 CTC07R06=EBC16R06
 CTC07R07=EBC16R07
 CTC07R10=EBC16R14
 CTC07R12=EBC16R28

CIC07R13=EBC16R30
 CIC07R14=EBC16R31
 CIC07R15=EBC16R32
 CIC07R17=EBC16R49

(8) Automotive Diesel Oil

CIC08R02=EBC18R02
 CIC08R03=EBC18R03
 CIC08R04=EBC18R04
 CIC08R05=EBC18R05
 CIC08R06=EBC18R06
 CIC08R07=EBC18R07
 CIC08R09=EBC18R11+EBC18R13
 CIC08R10=EBC18R14
 CIC08R11=EBC18R18+EBC18R20+EBC18R23+EBC18R24
 CIC08R12=EBC18R28
 CIC08R13=EBC18R30
 CIC08R14=EBC18R31
 CIC08R15=EBC18R32
 CIC08R16=EBC18R33
 CIC08R18=EBC18R52
 CIC08R19=EBC18R58

(9) Industrial Diesel Oil

CIC09R02=EBC19R02
 CIC09R03=EBC19R03
 CIC09R04=EBC19R04
 CIC09R05=EBC19R05
 CIC09R06=EBC19R06
 CIC09R07=EBC19R07
 CIC09R09=EBC19R11+EBC19R13
 CIC09R10=EBC19R14
 CIC09R11=EBC19R18+EBC19R20+EBC19R23+EBC19R24
 CIC09R12=EBC19R28
 CIC09R13=EBC19R30
 CIC09R14=EBC19R31
 CIC09R15=EBC19R32
 CIC09R16=EBC19R33
 CIC09R18=EBC19R52
 CIC09R19=EBC19R58

(10) Heavy Fuel Oil

CIC10R02=EBC20R02
 CIC10R03=EBC20R03
 CIC10R04=EBC20R04
 CIC10R05=EBC20R05
 CIC10R06=EBC20R06
 CIC10R07=EBC20R07
 CIC10R09=EBC20R11+EBC20R13
 CIC10R10=EBC20R14
 CIC10R11=EBC20R18+EBC20R20+EBC20R23
 CIC10R12=EBC20R28
 CIC10R13=EBC20R30
 CIC10R14=EBC20R31
 CIC10R15=EBC20R32

CIC10R16=EBC20R33
 CIC10R18=EBC20R52
 CIC10R19=EBC20R58

(11) Naphtha

CIC11R03=EBC21R03
 CIC11R05=EBC21R05
 CIC11R06=EBC21R06
 CIC11R07=EBC21R07
 CIC11R08=EBC21R09
 CIC11R11=EBC21R20+EBC21R22
 CIC11R12=EBC21R28
 CIC11R13=EBC21R30
 CIC11R14=EBC21R31
 CIC11R15=EBC21R32
 CIC11R16=EBC21R33
 CIC11R20=EBC21R59

(12) LPG

CIC12R02=EBC28R02
 CIC12R03=EBC28R03
 CIC12R05=EBC28R05
 CIC12R06=EBC28R06
 CIC12R07=EBC28R07
 CIC12R08=EBC28R08
 CIC12R12=EBC28R28
 CIC12R13=EBC28R30
 CIC12R14=EBC28R31
 CIC12R15=EBC28R32
 CIC12R16=EBC28R33
 CIC12R17=EBC28R49
 CIC12R18=EBC28R52
 CIC12R20=EBC28R59

(13) Other Petroleum Products

CIC13R02=EBC23R02+EBC24R02+EBC25R02
 CIC13R03=EBC22R03+EBC25R03+EBC24R03
 CIC13R05=EBC22R05+EBC23R05+EBC24R05+EBC25R05
 +EBC26R05
 CIC13R06=EBC22R06+EBC23R06+EBC24R06+EBC25R06
 +EBC26R06
 CIC13R07=EBC22R07+EBC23R07+EBC24R07+EBC25R07
 +EBC26R07+EBC27R07
 CIC13R11=EBC22R20+EBC23R20+EBC24R20+EBC25R20
 +EBC26R20+EBC27R20
 CIC13R12=EBC22R28+EBC23R28+EBC24R28+EBC25R28
 +EBC26R28+EBC27R28
 CIC13R13=EBC22R30+EBC23R30+EBC24R30+EBC25R30
 +EBC26R30+EBC27R30
 CIC13R14=EBC23R31+EBC24R31+EBC25R31+EBC26R31
 CIC13R15=EBC26R32
 CIC13R16=EBC24R33
 CIC13R20=EBC23R60+EBC24R60+EBC25R60+EBC26R60

(30)

(14) Natural Gas

CTC14R01-EBC29R01
CTC14R06-EBC29R06
CTC14R08-EBC29R08+EBC29R09
CTC14R09-EBC29R11
CTC14R10-EBC29R14
CTC14R11-EBC29R19+EBC29R20+EBC29R21
+EBC29R22+EBC29R23+EBC29R24
CTC14R12-EBC29R28
CTC14R13-EBC29R30
CTC14R14-EBC29R31
CTC14R15-EBC29R32
CTC14R16-EBC29R33
CTC14R17-EBC29R49
CTC14R20-EBC29R59

(15) NGL

CTC15R03-EBC30R03
CTC15R06-EBC30R06
CTC15R08-EBC30R08+EBC30R09
CTC15R13-EBC30R30

(16) LNG

CTC16R03-EBC31R03
CTC16R06-EBC31R06
CTC16R08-EBC31R08
CTC16R13-EBC31R30

(17) Methanol

CTC17R03-EBC32R03
CTC17R06-EBC32R06
CTC17R08-EBC32R09
CTC17R13-EBC32R30
CTC17R14-EBC32R31
CTC17R15-EBC32R32
CTC17R18-EBC32R52
CTC17R26-EBC32R59

(18) Town Gas

CTC18R10-EBC33R14
CTC18R11-EBC33R24
CTC18R12-EBC33R26

CTC18R13-EBC33R30
CTC18R14-EBC33R31
CTC18R15-EBC33R32
CTC18R16-EBC33R33
CTC18R17-EBC33R49

(19) Other Gas

CTC19R10-EBC35R14+EBC35R15
CTC19R11-EBC35R25
CTC19R13-EBC35R30

(20) Hydro Generation

CTC20R01-EBC42R01+EBC43R01
CTC20R06-EBC42R06+EBC43R06
CTC20R09-EBC42R11+EBC43R13

(21) Geothermal Generation

CTC21R01-EBC45R01+EBC46R01
CTC21R06-EBC45R06+EBC46R06
CTC21R09-EBC45R11+EBC46R13

(22) Nuclear Generation

CTC22R01-EBC44R01
CTC22R06-EBC44R06
CTC22R09-EBC44R11

(23) Other Generation

CTC23R01-EBC47R01+EBC48R01
CTC23R06-EBC47R06+EBC48R06
CTC23R09-EBC47R11+EBC48R13

(24) Electricity

CTC24R09-EBC49R11+EBC49R13
CTC24R11-EBC49R18+EBC49R20+EBC49R23+EBC49R24
+EBC49R26+EBC49R27+EBC49R19+EBC49R21
CTC24R12-EBC49R28
CTC24R14-EBC49R31
CTC24R15-EBC49R32
CTC24R16-EBC49R33
CTC24R17-EBC49R49
CTC24R18-EBC49R52
CTC24R19-EBC49R58

(25) Total of Commercial Energy

CTC25R01=CTC01R01+CTC02R01+CTC14R01+CTC20R01+CTC21R01+CTC22R01+CTC23R01
CTC25R02=CTC01R02+CTC02R02+CTC03R02
CTC25R03=CTC01R03+CTC02R03+CTC03R03+CTC15R03+CTC16R03+CTC17R03
CTC25R04=CTC03R04
CTC25R05=CTC01R05+CTC02R05+CTC03R05
CTC25R06=CTC01R06+CTC02R06+CTC03R06+CTC14R06+CTC15R06+CTC16R06+CTC17R06
CTC25R06=CTC01R06+CTC02R06+CTC03R06+CTC14R06+CTC15R06+CTC16R06+CTC17R06;
+CTC20R06+CTC21R06+CTC22R06+CTC23R06
CTC25R07=CTC02R07+CTC03R07
CTC25R08=CTC03R08+CTC14R08+CTC15R08+CTC16R08+CTC17R08
CTC25R09=CTC01R09+CTC03R09+CTC14R09+CTC20R09+CTC21R09+CTC22R09+CTC23R09+CTC24R09

CTC25R10+CTC01R10+CTC03R10+CTC14R10+CTC18R10+CTC19R10
 CTC25R11=CTC01R11+CTC03R11+CTC14R11+CTC18R11+CTC19R11+CTC24R11+CTC02R11
 CTC25R12=CTC01R12+CTC02R12+CTC03R12+CTC14R12+CTC18R12+CTC24R12
 CTC25R13=CTC01R13+CTC02R13+CTC03R13+CTC14R13+CTC15R13+CTC18R13+CTC17R13;
 +CTC18R13+CTC19R13
 CTC25R14=CTC01R14+CTC03R14+CTC14R14+CTC17R14+CTC18R14+CTC24R14
 CTC25R15=CTC01R15+CTC03R15+CTC14R15+CTC17R15+CTC18R15+CTC24R15
 CTC25R16=CTC01R16+CTC03R16+CTC14R16+CTC18R16+CTC24R16
 CTC25R17=CTC01R17+CTC03R17+CTC14R17+CTC18R17+CTC24R17
 CTC25R18=CTC01R18+CTC03R18+CTC17R18+CTC24R18
 CTC25R19=CTC03R19+CTC24R19
 CTC25R20=CTC01R20+CTC03R20+CTC14R20+CTC17R20

(26) Non-Commercial Energy

CTC26R01=EBC38R01+EBC39R01+EBC40R01+EBC41R01
 CTC26R03=EBC40R03
 CTC26R05=EBC38R05+EBC39R05+EBC40R05
 CTC26R06=EBC38R06+EBC39R06+EBC40R06+EBC41R06
 CTC26R13=EBC38R13+EBC39R13+EBC40R13+EBC41R13
 CTC26R14=EBC38R14+EBC39R14+EBC40R14+EBC41R14
 CTC26R15=EBC38R15+EBC39R15+EBC40R15+EBC41R15
 CTC26R16=EBC38R16+EBC41R16
 CTC26R17=EBC38R17+EBC39R17+EBC41R17
 CTC26R18=EBC38R18+EBC40R18
 CTC26R20=EBC40R20

(27) Grand Total

CTC27R01=CTC25R01+CTC26R01
 CTC27R02=CTC25R02
 CTC27R03=CTC25R03+CTC26R03
 CTC27R04=CTC25R04
 CTC27R05=CTC25R05+CTC26R05
 CTC27R06=CTC25R06+CTC26R06
 CTC27R07=CTC25R07
 CTC27R08=CTC25R08
 CTC27R09=CTC25R09
 CTC27R10=CTC25R10
 CTC27R11=CTC25R11
 CTC27R12=CTC25R12
 CTC27R13=CTC25R13+CTC26R13
 CTC27R14=CTC25R14+CTC26R14
 CTC27R15=CTC25R15+CTC26R15
 CTC27R16=CTC25R16+CTC26R16
 CTC27R17=CTC25R17+CTC26R17
 CTC27R18=CTC25R18+CTC26R18
 CTC27R19=CTC25R19
 CTC27R20=CTC25R20+CTC26R20

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure the integrity of the organization's data.

5. The fifth part of the document discusses the importance of data governance and the role of various stakeholders in ensuring that data is used responsibly and in compliance with relevant regulations and standards.

6. The sixth part of the document explores the future of data management, including emerging trends such as artificial intelligence, cloud computing, and big data. It offers insights into how these technologies will shape the way organizations handle their data.

7. The seventh part of the document provides a summary of the key findings and recommendations. It emphasizes the need for a proactive and holistic approach to data management to maximize the value of the organization's data assets.

GENERAL MANUAL OF ENERGY BALANCE TABLE IV

LIST OF ENERGY BALANCE TABLES

UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION



(Unit : 10³ TCE)

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
OTHERS INCREASE, ASPH., B)	PETROLE- UM COKE	REFINERY GAS	LPG	NATURAL GAS	MEL (CONDEN- SATES)	LNG	METHANOL	TOWN GAS	COKE	COKE OVER GAS	BLAST FURNACE GAS	BRIQUET	WOOD	CHARCOAL	FUEL ETHANOL FRGN BIOMASS	AGRI- CULTURAL WASTES	HYDRO GENERATION PUBLIC UTILITY	AUTO GENERAT. -TICK	NUCLEAR GENERAT -TICK	GEOTHERM. GENERAT. PUBLIC UTILITY	AUTO GENERAT. PUBLIC UTILITY	OTHER GENERATION PUBLIC UTILITY	AUTO GENERAT. PUBLIC UTILITY	TOTAL OF ELEC- TRICITY	PUBLIC UTILITY	AUTO GENERAT -TICK	GRAND TOTAL	
NA			0	3975					0				15461	NA	0	17376	513	0	0	0	0	0	0				91622	
-24			-17		0	0	0								0												17	-45007
0	NA		0						0				NA	NA	0													(-278)
-24			-17	3975					0				0	15461	0	0	17376	513	0	0	0	0	0	0				46664
111			17		0	0	0																					-1120
			0		0	0	0																					0
			0	NA																						228	228	-587
			0					17	0	0									0					0	45	0	45	-118
			0						0																			11
			0																									0
141			17		0	0	0	17	0	0																	274	-1814
			0																									0
			0																									0
			0																									0
			0																									0
			0																									0
			0																									0
0			0	-1939				-5																	0	NA	0	0
			0																									0
			0																									0
			0																									0
			0	-1965				-5																				0
			0																									0
			0																									0
			0																									0
58			0	60				14	0				0	15461	0	0	17376								225	179	46	41429
			0	43				14	0				0	15461	0	0	17376								225	179	46	40178
			0	40				0	0				0	9172		18915									79	33	46	21428
			0	NA									0	8415		9197									1	NA	1	17781
			0																						12	NA	12	120
			0																						0	NA	0	0
			0	43				0	0				0	1257		1419									30	0	30	3314
			0																						2	NA	2	33
			0																						1	NA	1	24
			0	43				0	0				0	1257		1419								0	NA	NA	43	
			0	0					0															3	NA	3	2022	
			0																					0	NA	NA	0	
			0																					0	NA	NA	0	
			0																					0	NA	NA	0	
			0																					17	0	17	247	
			0					14				0	5225	NA		4161									117	117	NA	15421
			0												61													2816
			0																									133
			0												61													1904
			0																									303
			0																									279
			0																									258
			0																						28	28	NA	333
			0	17				0																				49
58			0																									92
			0	60				0																				82

ENERGY BALANCES IN INDONESIA CA 1970

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL C01-C05	STEAM COAL	STEAM COAL	ANTHRA- CITE	LIGNITE	TOTAL OF CRUDE OIL C06-C08	ORIGINAL CRUDE OIL	REDUCED CRUDE OIL	PETROLE- UM PRODUCTS C09-C28	DOMESTIC FUEL OIL C10-C20	BASOLINE C11-C14	AVIATION SUPER	PREHEAT	JET FUEL	RESIDINE	DIESEL C17-C19	AUTOMAT.	INDUSIR.	HEAVY FUEL OIL	NAPHTHA	LOW SUL. ENVI- RONLY RESIDUE	SOLVENTS		
1 DOMESTIC PRODUCTION	0	0	0	0	NA	62428	62428	532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 IMPORT	0	0	0	0		532	0	532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 EXPORT	0	0	0	0		-15745	-15745		-7895	-2451	-434	-6	-129	-32	0	-11	-14	-39	-1947	0	-5238	0	0	-7
4 INTERNATIONAL W/LIFT	0	0	NA	NA	NA	-155	0	-155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 STOCK CHANGE	0	0	0	0	0	16769	16769	77	-2665	-2459	-434	-6	0	-129	-32	0	-11	-14	0	-1947	0	-5238	0	-7
6 PRIMARY ENERGY SUPPLY	0	0	0	0	0	16769	16769	77	-2665	-2459	-434	-6	0	-129	-32	0	-11	-14	0	-1947	0	-5238	0	-7
7 REFINERY						-18208	-16129	-27	16619	16784	2313	32	9	2393	193	3052	1935	1298	637	3162	0	5362	1	38
8 SOLIDS, LPG									1												9			
9 CHEMICAL ENERGY									0															
10 PETROCHEMICAL LPG									0															
11 PUBLIC UTILITY	0		NA						-371	-371							-259	-225	-25	-121				
12 FURF-UP USE																								
13 AUTO GENERATION	0		0						-241	-241								-241	-158	-91	0			
14 TOWN GAS	0	0	NA						0	0								0	-8	-1	-8	0		
15 COKE	0	0	0						0	0									0					
16 BATTERY	0	0	0						0	0									0					
17 TRANSFORMATION TOTAL	0	0	0			-18208	-16129	-27	16619	16784	2313	32	9	2393	193	3052	1935	1298	637	3162	0	5362	1	38
18 CRUDE OIL FIELD						0	NA	0	0	0									0	0	0	0	0	0
19 NATURAL GAS FIELD						0	0	0	0	0									0	0	0	0	0	0
20 REFINERY						0	0	0	0	0									0	0	0	0	0	0
21 HEL PLANT									0	0									0	0	0	0	0	0
22 CHEMICAL ENERGY PLANT									0	0									0	0	0	0	0	0
23 PUBLIC UTILITY									0	0									0	0	0	0	0	0
24 TOWN GAS									0	0									0	0	0	0	0	0
25 COKE PLANT									0	0									0	0	0	0	0	0
26 BRIDGE									0	0									0	0	0	0	0	0
27 COAL BINE	0		NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATES FICAL DIFFERENCE	0	0	0	0	0	-555	-555	0	-165	18	-16	-1	0	-15	-17	172	-167	-14	-123	-254	0	-124	0	0
31 FINAL CONSUMPTION	0	0	0	0	0	0	0	0	8981	7923	1893	25	9	1859	143	3523	1225	834	391	1139	0		1	31
32 FINAL ENERGY USE	0	0	0	0	0	0	0	0	7924	7923	1893	25	9	1859	143	3523	1225	834	391	1139	0		1	31
33 INDUSTRY	0	0	0	0	0				583	593						516	326	279	387	0				
34 AGRICULTURE FORESTRY									44	44						48	31	17	17					
35 FISHERY									0	0						0	0	0	0					
36 MINING/ENERGY SEC.	0	0	0	0	0				123	123						122	47	75	1					
37 CONSTRUCTION	0	0	0	0	0				0	0						0	0	0	0					
38 MANUFACTURING	0	0	0	0	0				796	796						426	248	178	370	0				
39 FOODS									126	126						29	22	7	17					
40 TEXTILE									45	45						34	27	7	11					
41 COPPER									59	59						43	29	29	11					
42 PAPER, PULP									29	29						7	3	4	21					
43 CHEMISTRY/FUEL USED									1	1						0	0	0	1	NA				
44 CERAMICS, CEMENTS	0	0	0	0	NA				157	157						31	8	22	127					
45 IRON, STEEL									0	0						0	0	0	0					
46 NON-FERROUS METALS	0	0	0	0					0	0						0	0A	0	0					
47 METAL FABRI., MACHINERY	0	0	0	0					0	0						0	0	0	0					
48 SMALL WARE, OTHERS	0	0	0	0					357	357						281	118	117	192					
49 RESIDENTIAL, COMM. TOTAL									3524	3523						3523								
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION TOTAL	0	0	0	0	0				3192	3192	1893	25	9	1859	143	136	319	117	721					
53 AIR TRANSPORTATION									149	149	25	25				0	0	0	0					
54 ROAD TRANSPORTATION									2075	2075	1867		9	1859	143	268	201	4	0					
55 RAILWAYS									228	228						54	52	3	171					
56 INTERNAL NAVIGATION									263	263						121	47	71	142					
57 INTERNATIONAL W/LIFT									155	155						53	14	39	407					
58 OTHER SIGNIF. FUGES 1)									224	224						193	189	4	31					
59 RAW MATER. USE IN CHEM.									0												NA			
60 OTHER NON-ENERGY USE	0	0	0	0	0				168														1	31
61 TOTAL USE IN CHEMISTRY									1	1						0	0	0	1	0				

ENERGY BALANCES IN INDONESIA CA 1976

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL C01-C05	COAL COAL C06-C08	STEAM COAL C09-C11	AMIRA- CITE C12-C14	LIGNITE C15-C17	TOTAL OF CRUDE OIL C18-C22	ORIGINAL CRUDE OIL C23-C25	REFINED CRUDE OIL C26-C28	PETROLE- UM PRODUCTS C29-C33	DOMESTIC FUEL OIL C34-C36	GASOLINE C37-C41	AVIATION SUPER C42-C46	PREMIUM C47-C51	JET FUEL C52-C56	KEROSENE C57-C61	DIESEL C62-C66	AUTOBOT. INDUSTRIAL C67-C71	INDUSTRIAL FUEL OIL C72-C76	HEAVY FUEL OIL C77-C81	KAPUTRA C82-C86	LOW SUL- FUR RESIDUE C87-C91	LUBRI- CANTS C92-C96	SOLVENTS C97-C101	
1 DOMESTIC PRODUCTION	181		181	0	NA	65269	65269																	
2 IMPORT	0	0				570	0	570	1327	1327	1	1	0	0	1692	10	10	0	255	0	-6184	0	0	0
3 EXPORT	0		0	0		-48913	-48913		-2519	-1245	-59	-2	-57	0	0	0	0	0	-1185	0				
4 (INTERNATIONAL SPLIFF)									(-337)	(-337)	(0)	(0)	0	(0)	0	(-75)	(-5)	(-70)	(-282)					
5 STOCK CHANGE	-48	0	-48	NA	NA	69	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 PRIMARY ENERGY SUPPLY	133	0	133	0	0	17686	17247	639	-8210	81	-59	-1	0	-57	0	1692	10	10	0	-931	0	-6184	0	0
7 REFINERY						-18710	-18976	-634	12387	11061	2426	37	22	2366	216	3659	2222	1556	665	3175	0	6923	3	15
8 BSUCLRS, LPG									0															
9 CHEMICAL ENERGY									0															
10 PETROCHEMICAL LPG									0															
11 PUBLIC UTILITY	0			NA					-414	-414							-269	-221	-39	-354				
12 P&S-UP USE																								
13 AUTO GENERATION	-66		-66						-292	-292							-292	-193	-99	0				
14 TOUR GAS	0		0	NA					-13	-13														
15 COKE	0		0																					
16 BRIDGE	0		0																					
17 TRANSFORMATION (TOTAL)	-66	0	-66			-18710	-18976	-634	16541	10370	2426	37	22	2366	216	3659	1657	1110	517	3021	0	6923	3	15
18 CRUDE OIL FIELD						0	NA		0	0														
19 NATURAL GAS FIELD									0	0														
20 REFINERY						0	0		0	0											0	0	0	0
21 USL PLANT									0	0														
22 CHEMICAL ENERGY PLANT									0	0														
23 PUBLIC UTILITY									0	0														
24 TOUR GAS									0	0														
25 COKE PLANT									0	0														
26 BRIDGE									0	0														
27 COAL BIRD	-23		-23	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 FLAKE AND LOSSES	0	0	0	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-23	0	-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	47	0	47	0	0	824	827	-5	-1668	-1768	-385	-12	-3	-291	-24	-298	-173	-83	-19	-1658	0	161	0	0
31 FINAL CONSUMPTION	94		94	0	0				8912	8681	2662	24	19	2619	192	3995	1494	1047	427	1032	0		3	15
32 FINAL ENERGY USE	94		94	0	0				8917	8494	2662	24	19	2619	192	3995	1494	1047	427	1032	0			
33 INDUSTRY	50		50	0	0				1153	1153							712	428	293	448	0			
34 AGRICULTURE FORESTRY									81	81							51	31	20	27				
35 FISHERY									0	0							0	0	0	0				
36 MINING (EX. ENERGY SEC.)	0		0	0	0				131	131							131	47	81	0				
37 CONSTRUCTION									0	0							0	0	0	0				
38 MANUFACTURING	50		50	0	0				942	942							528	335	191	414				
39 FOODS									163	163							41	39	16	118				
40 TEXTILE									79	79							59	36	23	19				
41 RUBBER									57	57							45	27	18	12				
42 PAPER, PULP									49	49							12	4	8	27				
43 CHEMISTRY (EX. ENERGY USE)									4	4							0	0	0	4				
44 CERAMICS, CEMENTS	15		15		NA				193	193							40	11	39	152				
45 IRON, STEEL									0	0							0	0	0	0				
46 NON-FERROUS METALS	0		0						0	0							0	NA	0	0				
47 METAL FABRI., MACHINERY									0	0							0	0	0	0				
48 SMALL BARES, OTHERS	1		1						436	436							325	229	96	81				
49 RESIDENT., COMMER. (TOTAL)									3968	3985							3165							
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION (TOTAL)	45		45						3389	3389	2662	24	19	2619	192		577	450	128	547				
53 AIR TRANSPORTATION									216	216	24	24					0	0	0	0				
54 ROAD TRANSPORTATION									2321	2321	2038		19	2419	192		282	278	4	0				
55 RAILWAYS	45		45						233	233							54	52	2	177				
56 INTERNAL NAVIGATION									273	273							168	115	53	165				
57 INTERNATIONAL SPLIFF									337	337							75	5	70	262				
58 OTHERS (GOVERN., FORCES ET)									247	247							203	197	6	44				
59 RAW MATER. USE IN CHEM.																								
60 OTHER NON-ENERGY USE	0		0						154														3	15
61 TOTAL USE IN CHEMISTRY																								

ENERGY BALANCES IN INDONESIA CA 1972

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF	COALING	STEAM	ANTHRA-	LIGNITE	TOTAL OF	ORIGINAL	REDUCED	PETROLE-	DOMESTIC	GASOLINE	AVIATION	SUPER	FRACIGN	JET FUEL	KEROSENE	DIESEL	AIRCRAFT	INDUSTRI-	HEAVY	NAPHTHA	LOW SUR-	KUBRI-	SOLVENTS	
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	UM	FUEL OIL	C11-C14	SUPER	SUPER	FRACIGN			C17-C19	ANTONOT.	INDUSTRI-	FUEL OIL		WAX	WAX		
	CO1-C05					CO6-C08	OIL	OIL	CO9-C28	C10-C20	C11-C14											RESIDUE	CANTIS		
1 DOMESTIC PRODUCTION	167		167	0	NA	79270	79270			1922					15	510	0	0	0	0	0	0	0	0	0
2 EXPORT	12	12		0		162	0	162	1964	1922															
3 IMPORT	0		0	0		-58747	-58747		-9791	-9791															
4 INTERNATIONAL UNLIT)									(-220)	(-220)															
5 STOCK CHANGE	17	0	15	2	NA	180	0	180	0	0															
6 PRIMARY ENERGY SUPPLY	196	12	182	2	0	20585	20323	262	-7836	1131					15	510	0	0	0	0	0	0	0	0	0
7 REFINERY						-20385	-20123	-242	19957	19366	2183	23	19	2119	248	3147	2761	1720	1041	2927	363	8933	7	28	
8 HEATING, LPG)																									
9 CHEMICAL ENERGY																									
10 PETROCHEMICAL LPG																									
11 PUBLIC UTILITY	0		NA						-355	-355															
12 PUMP-UP USE																									
13 HYDRO GENERATION	-69		-69						-325	-325															
14 TOWN GAS	-12	-12	NA						-17	-17															
15 COKE	0	0																							
16 WASTEWATER	0		0																						
17 TRANSPORTATION TOTAL	-61	-12	-69			-20385	-20123	-242	19269	9159	2183	23	19	2119	248	3147	2761	1720	1041	1925	363	8933	7	28	
18 CRUDE OIL FIELD							NA																		
19 NATURAL GAS FIELD																									
20 REFINERY																									
21 PULP MILL																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOWN GAS																									
25 COKE PLANT																									
26 WASTEWATER																									
27 COAL WASTE	-126		-126	NA	NA																				
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-126	0	-126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	93	0	93	0	0	-260	-260	0	-1347	-1192	-18	-2	-3	-57	-11	593	-292	216	-417	-1422	-363	-34	0	0	0
31 FINAL CONSUMPTION	81		79	2	0				9681	9617	2122	22	38	2662	252	4249	1914	1515	399	1110	0		16	28	
32 FINAL ENERGY USE	77		79	0	0				9654	9617	2122	22	38	2662	252	4249	1914	1515	399	1110	0				
33 INDUSTRY	51		51	0	0				1453	1453							799	478	310	645	0				
34 AGRICULTURE FORESTRY									84	84							41	45	14	23					
35 FISHERY									0	0							0	0	0	0					
36 BUILDING ENERGY SEC.)	0		0	0	0				135	135							132	54	27	4					
37 CONSTRUCTION									0	0							0	0	0	0					
38 MANUFACTURING	51		51	0	0				1234	1234							594	379	214	638	0				
39 FOODS									178	178							64	15	18	111					
40 TEXTILE									145	145							103	47	31	41					
41 RUBBER									25	25							54	33	23	19					
42 PAPER, PULP									50	50							15	8	4	35					
43 CHEMISTRY (FUEL USE)									95	95							7	7	0	68	NA				
44 CERAMICS, CEMENTS	17		17	NA	NA				318	318							41	19	50	254					
45 IRON, STEEL									13	13							5	5	1	8					
46 NON-FERROUS METALS	0								0	0							0	NA	0	0					
47 METAL FABR., MACHINERY									0	0							0	0	0	0					
48 SPARK WATERS, OTHERS	1		1						362	362							4	0	0	0					
49 RESIDENTIAL, COMMER. (TOTAL)									4258	4249							284	221	63	78					
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION TOTAL	28		28						3489	3497	2122	22	38	2662	252		133	817	66	382					
53 AIR TRANSPORTATION									274	274	22	22					0	0	0	0					
54 ROAD TRANSPORTATION									2704	2704	2101						405	491	4	0					
55 RAILWAYS	28		28						188	188							46	45	1	151					
56 INTERNAL NAVIGATION									293	293							282	221	69	18					
57 INTERNATIONAL SHIPPI									229	229							0	0	0	220					
58 OTHERS (GOVERN., FORCES, IS)									256	256	0	0	0	0	0	0	193	178	23	63					
59 RAW MATERIAL, USE IN CHEM.									0	0															
60 OTHER NON-ENERGY USE	2			2					231																
61 TOTAL USE IN CHEMISTRY									15	15							7	7	0	68	0				

ENERGY BALANCES IN INDONESIA CA 1973

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF	COAKING	STEAM	ANTHRA-	LIGNITE	TOTAL OF	ORIGINAL	REFINED	FEEDBLE-	DOMESTIC															
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CARBE	WA	FUEL OIL	GASOLINE	AVIATION	SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL	AUTOBOT.	INDUSIR.	HEAVY	KAPHTAN	LOW SOL.	LUBRIC-	SOLVENTS	
	CO1-C05					CO6-C08	OIL	OIL	CO9-C20	CO10-C20	CO11-C14	AVIATION	SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL	AUTOBOT.	INDUSIR.	FUEL OIL	KAPHTAN	LOW SOL.	LUBRIC-	SOLVENTS	
	CO1-C05					CO6-C08	OIL	OIL	CO9-C20	CO10-C20	CO11-C14	AVIATION	SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL	AUTOBOT.	INDUSIR.	FUEL OIL	KAPHTAN	LOW SOL.	LUBRIC-	SOLVENTS	
1 DOMESTIC PRODUCTION	141		137	4	NA	97903	97903																		
2 EXPORT	3	3					220		2565	2531															
3 IMPORT	0						-71954		-12310	-70															
4 INTERNATIONAL SPLIFF	0																								
5 STOCK CHANGE	32	0	32	NA	NA	201	0	201																	
6 PRIMARY ENERGY SUPPLY	175	3	169	4	0	24271	23816	425	-9755	2469	0	0	0	0	161	400	331	331	0	1647	0	-12115	10	2	
7 REFINERY																									
8 REFINERS, LPG																									
9 CHEMICAL ENERGY																									
10 PETROCHEMICAL LPG																									
11 PUBLIC UTILITY	0		NA																						
12 PUMP-UP USE																									
13 ASID GENERATION	-45		-45																						
14 TOUR GAS	-3	-3	NA																						
15 COKE	0	0																							
16 DRIFT	0		0																						
17 TRANSFORMATION TOTAL	-18	-3	-45			-24203	-23778	-425	22317	1734	2462	4	73	2383	292	4003	3195	2324	871	764	203	12030	7	34	
18 CRUDE OIL FIELD						0	NA		0	0															
19 NATURAL GAS FIELD																									
20 REFINERY						0	0		0	0															
21 NSL PLANT																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOUR GAS																									
25 COKE PLANT																									
26 DRIFT																									
27 COAL MINE	-13		-13	NA	NA				0	0															
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-13	0	-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	-32	0	-31	-1	0	-48	-68	0	-1107	-933	-112	-2	-3	-111	-14	357	-239	-65	-174	-975	-243	65	0	0	
31 FINAL CONSUMPTION	83		80	3	0				11457	11218	2345	4	70	2272	348	4759	2513	2028	481	1252	0		17	34	
32 FINAL ENERGY USE	80		80	0	0				11232	11218	2345	4	70	2272	348	4759	2513	2028	481	1252	0				
33 INDUSTRY																									
34 AGRICULTURE FORESTRY																									
35 FISHERY																									
36 MINING, ENERGY SEC. I	0		0	0																					
37 CONSTRUCTION																									
38 MANUFACTURING	43		43	0	0																				
39 FOODS																									
40 TEXTILE																									
41 WOOD																									
42 PAPER, PULP																									
43 CHEMISTRY (FUEL USED)																									
44 CERAMICS, CEMENTS	38		38		NA																				
45 IRON, STEEL																									
46 NON-FERROUS METALS	0																								
47 METAL FABR., MACHINERY																									
48 SMALL WARE, OTHERS	5		5																						
49 RESIDENT, COMMER. (TOTAL)																									
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION (TOTAL)	37		37																						
53 AIR TRANSPORTATION																									
54 ROAD TRANSPORTATION																									
55 RAILWAYS	37		37																						
56 INTERNAL NAVIGATION																									
57 INTERNATIONAL SPLIFF																									
58 OTHERS (SEVERAL, SEVERAL)																									
59 NON-ENERGY USE IN CONG.																									
60 OTHER NON-ENERGY USE	3																								
61 TOTAL USE IN CREDIT																									

ENERGY BALANCES IN INDONESIA CA 1974

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL	CRACKED COAL	STEAM COAL	ANTHRA- CITE	LIGNITE	TOTAL OF CRUDE OIL	ORIGINAL CRUDE OIL	REDUCED CRUDE OIL	PETROLE- UM PRODUCTS C09-C28	DOMESTIC FUEL OIL C10-C20	GASOLINE C11-C14	AVIATION SUPER	PETROL	JET FUEL	HEAVY OIL C15-C18	DIESEL C17-C19	AVIATION INDUSTR.	INDUSTR. HEAVY FUEL OIL	PARAFFIN WAX RESIDUE	LUBRI- CANTS	SOLVENTS			
	C01-C05					C06-C08			C09-C28	C10-C20	C11-C14					C17-C19								
1 DOMESTIC PRODUCTION	140		140	9	KA	100568	100568	115	2812	2767	0	0	0	212	1156	458	458	0	943	0	16	4		
2 IMPORT	1	1	0	0		115	0	115	-1772	-522	-522	0	0	0	0	0	0	0	0	0	0	0	0	0
3 EXPORT	0		0	0		-75933	-75933		-4593	-4593	-21	-21	0	-1143	0	-383	-13	-373	-395					
4 INTERNATIONAL OBLIGED			-7	KA	KA	-1550	-1388	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 STOCK CHANGE	-7	0	-7																					
6 PRIMARY ENERGY SUPPLY	142	1	133	9	0	23280	23018	232	-2149	2245	-522	0	0	-522	212	1154	458	458	0	943	0	-9311	16	4
7 REFINERY						-24987	-23855	-232	21885	12275	2468	27	88	2352	285	4335	3887	2878	971	1817	845	1871	6	30
8 WCLING, LPGI																								
9 CHEMICAL ENERGY									462	412														
10 PETROCHEMICAL LPG																								
11 PUBLIC UTILITY	0			KA																				
12 PUMP-UP USE																								
13 AUTO GENERATOR	-57		-57						-324	-324														
14 THERM GAS	-1	-1		KA					-21	-23														
15 CORE	0	0																						
16 BYLOSS	0		0																					
17 TRANSFORMATION TOTAL	-58	-1	-57			-24987	-23855	-232	23081	11165	2468	27	88	2352	285	4335	3154	2411	749	1723	845	1871	6	30
18 CRUDE OIL FIELD						-505	-505																	
19 NATURAL GAS FIELD																								
20 REFINERY																								
21 WCL PLANT																								
22 CHEMICAL ENERGY PLANT																								
23 PUBLIC UTILITY																								
24 THERM GAS																								
25 CORE PLANT																								
26 BYLOSS																								
27 COAL WINE	-10		-10	KA	KA																			
28 FLORE AND LOSSES	0	0																						
29 ENERGY SECTOR USE LOSSES	-10	0	-10			-505	-505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	8	0	8	-1	0	1312	1312	0	-2442	-1229	244	-2	7	619	-85	8	-587	-391	-394	-1327	-815	-567	0	0
31 FINAL CONSUMPTION	82		75	7	0				13345	12183	2450	28	95	2529	451	5439	3024	2450	543	1359	0		22	31
32 FINAL ENERGY USE	75		75	0	0				13014	12283	2450	28	95	2529	451	5439	3024	2450	543	1359	0			
33 INDUSTRY									1668	1648						813	493	419	856	0				
34 AGRICULTURE FORESTRY									147	141						115	90	24	35	0				
35 FISHERY																0	0	0	0	0				
36 MINING/ENERGY SECT.									231	231						172	41	91	59	0				
37 CONSTRUCTION									5	5						5	0	5	0	0				
38 MANUFACTURING									1283	1289						521	232	290	762	0				
39 FOODS									229	229						82	47	35	147	0				
40 TEXTILE									269	269						201	85	115	59	0				
41 RUBBER									94	94						72	45	28	21	0				
42 PAPER/PULP									49	49						22	12	9	38	0				
43 CHEMISTRY/GEN. USE									175	175						19	16	3	156	KA				
44 CERAMICS, CEMENTS									423	423						14	20	74	329	0				
45 IRON, STEEL									38	18						26	4	20	11	0				
46 NON-FERROUS METALS									0	0						0	0	0	0	0				
47 METAL FABRI., MACHINERY									2	2						2	0	2	0	0				
48 SMALL MACHS, OTHERS									3	3						3	0	3	0	0				
49 RESIDENT., COMM. TOTAL									5531	5499						5499								
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION TOTAL		32		32					5214	5234	2345	19	95	2251	439	2492	1881	121	418	0				
53 AIR TRANSPORTATION									322	312	17	17				0	0	0	0	0				
54 ROAD TRANSPORTATION									3691	3691	2345		95	2251	439	1545	1524	19	0	0				
55 RAILWAYS		32		32					165	165						55	54	1	138	0				
56 INTERNAL NAVIGATION									372	372						363	360	63	43	0				
57 INTERNATIONAL NAVIGATION									459	459		2	2			38	1	37	345	0				
58 OTHERS/OTHERS, FORCES BY									582	582	245	7	0	278	32	269	197	12	55	0				
59 RAW MATER. USE IN CHEM.																								
60 OTHER NON-ENERGY USE		7		7					291														22	34
61 TOTAL USE IN CHEMISTRY									975	975						19	16	3	156	0				

(Unit : 10³ TCE)

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
OTHERS (GREASE, ASPH., BT)	PETROLE- UM COKE	REFINERY GAS	LFG	NATURAL GAS	MGL (CONDENS- SATES)	LHD	METHANOL	TOUR GAS	COKE	COKE OVEN GAS	BLAST FURNACE GAS	BRIBUET	WOOD	CHARCOAL	FUEL EFFANGL FROM BIOMASS	AGRI- CULTURAL WASTES	HYDRO GENERATION PUBLIC UTILITY	AUTO GENERAT.	NUCLEAR GENERAT -TIGH	GEOTHERM. GENERAT.	AVI0 GENERAT.	OTHER GENERATION PUBLIC UTILITY	AUTO GENERAT.	TOTAL OF ELEC- TRICITY	PUBLIC UTILITY	AUTO GENERAT- TION	GRAND TOTAL	
				2276									25178	NA	0	19279	892	0	0	0	0	0	0				153283	
																												3935
																												-85965
																												-459
																												-1558
																												68839
																												-202
																												-245
																												0
																												-841
																												-274
																												-2
																												0
																												0
																												-1604
																												-505
																												-1897
																												-220
																												0
																												0
																												0
																												-12
																												0
																												0
																												0
																												-26
																												-1548
																												-2298
																												-1322
																												58431
																												58188
																												23557
																												18198
																												0
																												250
																												5
																												5416
																												238
																												282
																												102
																												83
																												311
																												4335
																												40
																												8
																												2
																												8
																												28322
																												5277
																												322
																												3891
																												219
																												377
																												159
																												410
																												167
																												298
																												512

ENERGY BALANCES IN INDONESIA CA 1975

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF COAL C41-C45	COOKING COAL	STEAM COAL	ANTHRA-CITE	LIGNITE	TOTAL OF CRUDE OIL C46-C48	ORIGINAL CRUDE OIL	REDUCED CRUDE OIL	PETROLEUM PRODUCTS C49-C52	DOMESTIC FUEL OIL C10-C19	GASOLINE C11-C11	AVIATION SUPER C12-C12	PREMIUM C13-C13	JET FUEL C14-C14	KEROSENE C15-C15	DIESEL C17-C17	AUTOMOB. INDUSTR. C18-C18	HEAVY FUEL OIL C19-C19	KAPHTPA C20-C20	LOW SULFUR RESIDUE C21-C21	LUBRICATIONS C22-C22	SOLVENTS C23-C23			
1 DOMESTIC PRODUCTION	192		103	9	NA	95562	95562		2795	2726	0	0	0	0	167	1278	945	945	0	36	-227	-7367	14	7	
2 EXPORT	0	0	0	0		922	0	122	-1843	-227	-227	0	0	-227	0	0	0	0	0	0	0	0	0	0	
3 EXPORT	0	0	0	0		-22757	-22757		(-417)	(-417)	(-39)	(-31)	0	0	0	0	(-151)	(-7)	(-38)	(-234)	0	0	0	0	
4 INTERNATIONAL BALANCE	-3	0	-3	NA	NA	-356	-351	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 STOCK CHANGE																									
6 PRIMARY ENERGY SUPPLY	194	0	100	9	0	27568	22452	116	-6042	1178	-227	0	0	-227	167	1278	945	945	0	36	-227	-7367	14	7	
7 REFINERY						-21713	-21576	-116	21352	12893	2891	33	121	2897	169	4358	4237	3697	1928	1605	820	7380	7	28	
8 RESERVE OIL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 CHEMICAL ENERGY									0	0															
10 PETROCHEMICAL LPG				NA					-899	-899							-463	-396	-66	-346					
11 PUBLIC UTILITY	0																								
12 PUMP-UP USE																									
13 APID GENERATION	-27		-27						-491	-491							-491	-227	-174	0					
14 TOWN GAS	-6	-6		NA					-21	-21							-21	-1	-19	0					
15 COKE	0	0	0						0	0															
16 BRIDGET	0	0	0						0	0															
17 TRANSFORMATION TOTAL	-83	-6	-27			-21713	-21576	-116	28126	11643	2891	33	121	2897	169	4358	4237	3697	1928	1605	820	7380	7	28	
18 CRUDE OIL FIELD						-505	-505		0	0															
19 NATURAL GAS FIELD						0	0		0	0															
20 REFINERY						0	0		0	0															
21 USE PLANT									0	0															
22 CHEMICAL ENERGY PLANT									0	0															
23 PUBLIC UTILITY									0	0															
24 TOWN GAS									0	0															
25 COKE PLANT									0	0															
26 BRIDGET									0	0															
27 COAL BURN	-7	0	-7	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 FLARE AND LOSSES	0	0	0						0	0															
29 ENERGY SECTOR USE LOSSES	-7	0	-7	0	0	-505	-505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 STATES BICAL DIFFERENCE	-5	0	-4	-1	0	-350	-350	0	947	1022	842	-7	5	844	-25	514	-203	-193	-69	-56	-93	-33	0	0	
31 FINAL CONSUMPTION	19		92	7	0				15625	11733	2915	25	126	2763	512	6222	3815	3135	679	1231	0		21	34	
32 FINAL ENERGY USE	92		92	0	0				14781	14733	2915	25	126	2763	512	6222	3815	3135	679	1231	0				
33 INDUSTRY			15	0	0				1831	1831						1808	474	514	823	0					
34 AGRICULTURE FORESTRY									156	156						123	181	22	33						
35 FISHERY									0	0						0	0	0	0						
36 MINING/ENERGY SEC.	0		0	0					162	162						161	65	76	1						
37 CONSTRUCTION									6	6						6	0	4	0						
38 MANUFACTURING	15		15	0	0				1508	1508						718	397	411	790	0					
39 FOODS									270	270						125	57	68	145						
40 TEXTILE									350	350						277	124	153	73						
41 RUBBER									93	93						81	41	32	92						
42 PAPER/PULP									66	66						28	11	13	41						
43 CHEMISIT/HEAVY USED									177	177						29	23	6	148	NA					
44 CERAMICS, CEMENTS	10		10		NA				498	488						137	27	119	351						
45 IRON/STEEL									59	59						48	17	23	19						
46 NON-FERROUS METALS	0			0					0	0						0	NA	0	0						
47 METAL PART., MACHINERY									2	2						2	0	2	0						
48 SMALL WARES, OTHERS	5		5						4	4						4	0	4	0						
49 RESIDENT, COMM. (TOTAL)									4270	4222						4222									
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION (TOTAL)	17		17						4066	4056	2891	18	126	2457	515	2546	2396	150	345						
53 AIR TRANSPORTATION									394	394	15	15				0	0								
54 ROAD TRANSPORTATION									4652	4652	2583		126	2157		2489	2645	23	0						
55 RAILWAYS									163	163						55	54	2	108						
56 INTERNAL NAVIGATION	17		17						379	379	0			0		377	210	87	2						
57 INTERNATIONAL BALANCE									417	417	3	3			135	45	7	38	214						
58 OTHERS (OVERSEAS, FORCES, ETC)									673	673	318	0	0	386	27	241	245	14	72						
59 RAW MATER. USE IN CHEM.									0	0										NA					
60 OTHER NON-ENERGY USE	7				7				244	244													21	34	
61 TOTAL USE IN CHEMISTRY									177	177						29	23	6	148	0					

(Unit : 10³ TCE)

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52			
OTHERS (GREASE, ASPH., BT)	PETROLE- UM COKE	REFINERY GAS	LPG	NATURAL GAS	MSL (COINPEK- SATES)	LPG	METHANOL GAS	TOWN GAS	COKE	COKE OVEN GAS	BLAST FURNACE GAS	BIODIESTER	WOOD	CHARCOAL	FUEL ETHANOL FROM BIOMASS	AGRI- CULTURAL WASTES	PUBLIC UTILITY	HYDRO GENERATION	AUTO GENERAT.	NUCLEAR GENERAT- ION	GEOHEATM. GENERAT.	AUTO GENERAT.	PUBLIC UTILITY	AUTO GENERAT.	TOTAL OF ELEC- TRICITY	PUBLIC UTILITY	AUTO GENERAT- ION	GRAND TOTAL		
				017									19250	KA	0	18684	071	0	0	0	0	0	0					142657		
49			0												0													2923		
-35			-6												0													-81692		
0	KA		0											KA	KA	0												-359		
13			-4	017									19230	0	0	18684	071	0	0	0	0	0	0	0				43695		
119	SS	0	50	-194																								-369		
			3																									-199		
																												0		
				KA																					165	165			-1215	
																													0	
								20																	134	0	134		-344	
																												0	0	
																												0	0	
119	SS	0	51	-194				20	0	0															599	145	134		-2116	
																													0	-345
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ENERGY BALANCES IN INDONESIA CA 1978

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF COAL C01-C05	COALING COAL	STEAM COAL	ANTRACI- TITE	LIGNITE	TOTAL OF CRUDE OIL C06-C08	ORIGINAL CRUDE OIL	REFINED CRUDE OIL	PETROLE- UM PRODUCTS C09-C28	DOMESTIC FUEL OIL C10-C20	JASOLINE C11-C14	AVIATION SUPER	PRECISION	JET FUEL	BEROSTINE	DIESEL C17-C19	AUTOHOT.	INDUSTR.	HEAVY FUEL OIL	NAPHTHA LENE	LOW SUL- PHYR RESIDUE	LUBRI- CANTS	SOLVENTS		
1 DOMESTIC PRODUCTION	173		151	22	NA	110284	110284	59	6619	6617	361	0	0	361	550	3095	2702	2503	158	0	0	9	3		
2 EXPORT	1	1				1669	1550		-8149	-78	0	0		0	0	0	0	0	-79	-85	-7914		0		
3 EXPORT	-8		0	-8		-10074	-90974		(-437)	(-437)	(-2)	(-2)		(-141)		(-92)	(-143)	(-78)	(-202)						
4 INTERNATIONAL ADJUST					NA	-270	-314	24	(-524)	(-150)	59	5	1	44	-6	39	-89	-92	2	-134	-227	-154	0	-2	
5 STOCK CHANGE	-1	0	-3	-1	NA																				
6 PRIMARY ENERGY SUPPLY	162	1	148	13	0	21529	21147	83	-2612	6317	411	5	1	405	543	3034	2612	2411	291	-214	-312	-8087	9	1	
7 REFINERY						-22020	-21938	-83	21899	13337	2732	24	134	2574	22	4879	3784	2728	1056	2649	287	8041	3	31	
8 REFINING, LPG									19																
9 CHEMICAL ENERGY									0																
10 PETROCHEMICAL LPG									0																
11 PUBLIC UTILITY	0		NA						-1474	-1171							-738	-674	-65	-433					
12 PUMP-UP USE																									
13 AUTO GENERATING	-71		-71						-654	-654							-654	-455	-200	0					
14 TOWN GAS	-1	-1	NA						-21	-21															
15 COKE	0	0																							
16 BRIDGET	0																								
17 TRANSFORMATION TOTAL	-72	-1	-71			-22020	-21938	-83	20962	11470	2732	24	134	2574	22	4879	3784	2728	1056	2649	287	8041	3	31	
18 CRUDE OIL FIELD						-644	-644		0	0									0	0	0	0			
19 NATURAL GAS FIELD									0	0									0	0	0	0			
20 REFINERY									0	0									0	0	0	0			
21 PULP PLANT									0	0									0	0	0	0			
22 CHEMICAL ENERGY PLANT									0	0									0	0	0	0			
23 PUBLIC UTILITY									0	0									0	0	0	0			
24 TOWN GAS									0	0									0	0	0	0			
25 COKE PLANT									0	0									0	0	0	0			
26 BRIDGET									0	0									0	0	0	0			
27 COAL MINE	-3		-3	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 PLANT AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 ENERGY SECTOR USE LOSSES	-3	0	-3	0	0	-644	-644	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 STATIS TICAL DIFFERENCE	-1	0	-1	0	0	1135	1135	0	-1140	-1233	1	-5	1	5	-19	-387	-293	-119	-174	-584	25	19	0	0	
31 FINAL CONSUMPTION	86		74	12	0				16877	16815	3145	25	137	2984	547	4926	4699	3679	650	1417	0		12	32	
32 FINAL ENERGY USE	74		74	0	0				16763	16815	3145	25	137	2984	547	4926	4699	3679	650	1417	0				
33 INDUSTRY	34		34	0	0				2589	2589						1569	988	591	1649		0				
34 AGRICULTURE FORESTRY									337	337						306	279	27	31						
35 FISHERY									0	0						0	0	0	0						
36 MINING (EXCL. ENERGY SEC.)	0		0	0					161	161						136	94	12	55						
37 CONSTRUCTION									71	71						48	42	4	2						
38 MANUFACTURING	34		34	0	0				2021	2021						1059	554	514	921		0				
39 FOODS									389	389						261	129	72	187						
40 TEXTILE									423	423						342	177	165	81						
41 RUBBER									192	192						88	61	27	13						
42 PAPER, PULP									49	49						29	13	14	49						
43 CHEMISTRY (FUEL USE)									184	184						45	33	12	131		NA				
44 CERAMICS, CEMENTS	29		29		NA				470	470						272	42	210	358						
45 IRON, STEEL									186	186						73	35	19	31						
46 NON-FERROUS METALS	0			0					38	38						12	12	9	26						
47 METAL FABR., RECOVERY									17	17						17	14	2	0						
48 SMALL WARES, OTHERS	5		5						24	24						20	16	4	1						
49 RESIDENT., COMMERCIAL TOTAL									1885	6926						6926									
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION TOTAL	40		40						4265	4265	2810	15	135	2670	319	2567	2377	118	339						
53 AIR TRANSPORTATION									415	415	13	13	135	2670	319	1	1								
54 ROAD TRANSPORTATION									4791	4791	2825		135	2670		1768	1919	26	6						
55 RAILWAYS	40		40						172	172						41	57	4	110						
56 INTERNAL NAVIGATION									471	471	0	0	0	0		441	383	89	27						
57 INTERNATIONAL WPLIFT									437	437	2	2				92	14	78	262						
58 OTHER ENERGY, PROCESS 21									914	914	364	10	1	294	28	543	523	20	68						
59 RAW MATERI. USE IN CREO.									0	0											NA				
60 OTHER NON-ENERGY USE	12				12				198	198														12	32
61 TOTAL USE IN ECONOMY									184	184						45	33	12	139	0					

ENERGY BALANCES IN INDONESIA CA 1977

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF	COAKING	STEAM	ANTHRA-	LIGNITE	TOTAL OF	ORIGINAL	REDUCED	PETROLE-	DOMESTIC	BASOLINE	AVIATION	SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL	AVIATION	INDUSTR.	HEAVY	KAPUTRA	LOW SUL-	LUBRI-	SOLVENTS	
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	PRODUCTS	FUEL OIL	C11-C14						C17-C19			FUEL OIL	RESIDUE	WAX	CANTS		
	CO1-C05					CO6-C08	OIL	OIL	C09-C28	C10-C20															
1 DOMESTIC PRODUCTION	222		183	39	NA	123270	123270		3928	3878	79	1	0	75	439	1920	2147	1991	211	0			7	2	
2 EXPORT	0	0				5966	5936	30	-11843	-933	0	0	0	0	0	0	0	0	0	0	-933	-939	-946	0	
3 EXPORT	-7		-2	0		-92251	-92251		(-578)	(-578)	(-2)	(-2)	0	0	(-154)	0	(-83)	(-15)	(-61)	(-159)					
4 INTERNATIONAL SPLIT																									
5 STOCK CHANGE	-14	0	-3	-11	NA	2015	1991	24	365	-101	-19	-2	0	-16	-27	-155	23	-46	49	147	136	290	0	-12	
6 PRIMARY ENERGY SUPPLY	201	0	173	28	0	31004	33948	54	-7623	2838	39	2	0	28	411	825	2169	1855	314	-787	-794	-917	8	-9	
7 REFINERY						-30387	-30333	-54	29745	18718	3581	21	137	3343	12	4235	5449	4243	1174	3760	1019	1474	6	49	
8 WCL (LPG)									474																
9 CHEMICAL ENERGY									0																
10 PETROCHEMICAL LPG																									
11 PUBLIC UTILITY	0		NA						-1119	-1419							-950	-891	-59	-419					
12 PUMP-UP USE																									
13 AUTO GENERATION	-77		-77						-814	-804							-941	-537	-247	0					
14 TOWN GAS	0		NA						-21	-23							-21	-5	-16	-2					
15 COKE	0	0																							
16 BRIDGET	0		0																						
17 TRANSFORMATION (TOTAL)	-77	0	-77			-30387	-30333	-54	29774	18701	3591	21	137	3343	12	4235	5449	4243	831	3267	1019	1474	6	49	
18 CRUDE OIL FIELD						-424	-424		0	0															
19 NATURAL GAS FIELD																									
20 REFINERY						0	0																		
21 WCL PLANT																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOWN GAS																									
25 COKE PLANT																									
26 BRIDGET																									
27 COAL DINE	-5		-5	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 ENERGY SECTOR USE LOSSES	-5	0	-5	0	0	-424	-424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 STATISTICAL DIFFERENCE	0	0	0	0	0	-3189	-3189	0	-1395	-791	-25	1	0	-26	-1	517	-152	-314	-137	-836	-216	-298	0	0	
31 FINAL CONSUMPTION	111		91	20	0				19653	18749	3586	23	137	3345	613	7577	5382	4370	1011	1672	0		13	31	
32 FINAL ENERGY USE	91		91	0	0				18813	18749	3586	23	137	3345	613	7577	5382	4370	1011	1672	0				
33 INDUSTRY	51		51	0	0				3098	3098							1159	1168	799	1149	0				
34 AGRICULTURE FORESTRY									314	314							-321	295	26	25					
35 FISHERY									0	0							0	0	0	0					
36 MINING (EXCL. ENERGY SEC.)	0		0	0	0				261	261							192	165	87	69					
37 CONSTRUCTION									93	93							88	78	10	5					
38 MANUFACTURING	51		51	0	0				2397	2397							1357	491	447	1011	0				
39 FOODS									454	454							242	152	98	212					
40 TEXTILE									497	497							416	210	185	81					
41 RUBBER									108	108							95	49	24	13					
42 PAPER, PULP									91	91							49	20	24	51					
43 CHEMICALS (EXCL. FUEL)									223	223							41	50	13	159	NA				
44 CERAMICS, CEMENTS	46		46		NA				825	825							354	75	279	171					
45 IRON, STEEL									127	127							10	47	43	37					
46 NON-FERROUS METALS	0								20	20							11	11	0	0					
47 METAL FABRI., MACHINE									19	19							19	17	2	0					
48 SHIP, WARE, OTHERS	5		5						34	34							27	19	8	9					
49 RESIDENT., COMM. (TOTAL)									7619	7577							7577								
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION (TOTAL)	40		40						7129	7129	3197	15	135	3046	549		2972	2491	161	182					
53 AIR TRANSPORTATION									430	430		13					3	3							
54 ROAD TRANSPORTATION									5484	5484	3181		135	3045			2303	2249	34	0					
55 RAILWAYS	40		40						148	148							48	41	3	82					
56 INTERNAL NAVIGATION									492	492							418	342	74	43					
57 INTERNATIONAL SPLIT									578	578		2	2				83	15	68	338					
58 OTHERS (GOVERN., FORCES E)									954	954	369	1	2	219	44		551	511	40	50					
59 RAW MATERI. USE IN CHEM.									0	0											NA				
60 OTHER NON-ENERGY USE	20			20					241	241													13	31	
61 TOTAL USE IN CHEMISTRY									229	229							61	50	13	159	0				

ENERGY BALANCES IN INDONESIA CA 1978

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL C01-C05	COALIN COAL	STEAM COAL	ANTHRA- CITE	LIGNITE	TOTAL OF CRUDE OIL C06-C08	ORIGINAL CRUDE OIL	REDUCED CRUDE OIL	PETROLE- UM PRODUCTS C09-C28	DOMESTIC FUEL OIL C10-C20	GASOLINE C11-C14	AVIATION SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL C17-C19	AUTOMOT. INDUSTR.	INDUSTR.	HEAVY FUEL OIL	KAPUTRA	LOW SUL- FUR RESIDUE	LUKSI- CANTS	SOLVENTS	
1 DOMESTIC PRODUCTION	250		177	61	NA	119570	119570																	
2 IMPORT	0	0				4224	4224	0	3659	3577	3	0	0	3	652	870	2024	2024	0	0	-209	-8175	9	2
3 EXPORT	-30		-3	-27		-92568	-92568		-9575	-811	0	0	0	0	0	0	0	0	0	-411				0
4 INTERNATIONAL SPLIT									(-697)	(-697)	(-1)	(-1)		(-203)		(-189)	(-121)	(-56)	(-337)					
5 STOCK CHANGE	-42	0	-24	-18	NA	-552	-552	1	-509	-542	-122	1	-4	-119	16	-85	-180	-178	38	-191	40	-4	-10	5
6 PRIMARY ENERGY SUPPLY	184	0	170	14	0	32482	32481	1	-4434	2623	-119	1	-4	-118	488	813	1844	1925	38	-103	-249	-8179	-9	7
7 REFINERY						-32025	-32024	-1	11671	21187	3743	26	134	3583	25	4138	6424	4893	1538	4882	1168	8915	36	34
8 WASTE, LFG									474															
9 CHEMICAL ENERGY									0															
10 PETROCHEMICAL LFG																								
11 PUBLIC UTILITY	0			NA					-1797	-1797						-1161	-1162	-49	-638					
12 TRANS-SP USE																								
13 AUTO GENERATION	-76		-76						-555	-555							-755	-869	-295	0				
14 TOWN GAS	0	0		NA					-25	-25						0	-25	-7	-18	0				
15 COKE	0	0																						
16 WASTE	0	0	0																					
17 TRANSFORMATION(TOTAL)	-76	0	-76			-32025	-32024	-1	29567	12109	3743	26	134	3583	25	4138	4281	3104	1176	4225	1168	8915	36	34
18 CRUDE OIL FIELD						-252	-252		0	0										0	0	0	0	
19 NATURAL GAS FIELD									-1	0										0	0	0	0	
20 REFINERY						0	0		-1	0										0	0	0	0	
21 WGL PLANT																								
22 CHEMICAL ENERGY PLANT																								
23 PUBLIC UTILITY																								
24 TOWN GAS																								
25 COKE PLANT																								
26 WASTE																								
27 COAL WIRE	-8		-8	NA																				
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-8	0	-8	0	0	-252	-252	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATES TICAL DIFFERENCE	3	0	-7	10	0	-485	-485	0	-1569	25	364	-2	11	295	38	1925	-71	37	-169	-1771	-657	-734	0	0
31 FINAL CONSUMPTION	185		70	27	0				21574	21658	3720	25	141	3742	731	4175	4073	4767	1106	1851	0		27	41
32 FINAL ENERGY USE	78		78	0	0				26138	21658	3720	25	141	3742	731	4175	4073	4767	1106	1851	0			
33 INDUSTRY	50		50	0	0				3467	3467						2107	1438	873	1360	0				
34 AGRICULTURE FORESTRY									131	481						392	358	35	8					
35 FISHERY									0	0						0	0							
36 MINING, ENERGY SEC.	0		0	0					227	227						163	185	58	44					
37 CONSTRUCTION									181	181						160	93	7	1					
38 MANUFACTURING	50		50	0	0				2938	2938						1651	878	773	1286	0				
39 FOODS									569	569						388	192	114	263					
40 TEXTILE									569	569						472	287	206	74					
41 RUBBER									120	120						107	80	24	14					
42 PAPER, PULP									129	129						68	37	32	61					
43 CHEMISTRY(FUEL USED)									292	292						97	89	17	195		NA			
44 CHEMISTRY,CEMENTS	44		44		NA				976	974						411	192	389	565					
45 IRON,STEEL									219	219						111	55	56	101					
46 NON-FERROUS METALS	0								9	9						8	8	0	1					
47 METAL FABRI.,MACHINERY									29	29						27	24	2	2					
48 SMALL WARE,OTHERS	4		4						27	27						25	13	12	2					
49 RESIDENTIAL,COMMERCIAL(TOTAL)									8553	8175						8175								
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION(TOTAL)	28		28						7933	7933	3441	18	140	3490	677	3186	3868	179	434					
53 AIR TRANSPORTATION									470	470	13	13		474		3	3							
54 ROAD TRANSPORTATION									6211	6211	3630		140	3490		2581	2534	25	0					
55 WATERWAYS	28		28						152	152						81	78	3	71					
56 INTERNAL NAVIGATION									182	182	0					451	359	15	28					
57 INTERNATIONAL SPLIT									489	489	1	1		203		48	12	54	337					
58 OTHERS(GOVERN.,FORCES,ETC)									923	923	285	11	1	272	51	579	525	54	55					
59 RAW MATEY. USE IN EXP.									0												NA			
60 OTHER HIGH-ENERGY USE	27			27					436														27	11
61 TOTAL USE IN CHEMISTRY									292	292						97	83	17	115	0				

ENERGY BALANCES IN INDONESIA CA 1979

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF	COAKING	STEAM	ANTHRA-	LIGNITE	TOTAL OF	ORIGINAL	REDUCED	PETROLE-	DOMESTIC	BASOLINE	AVIATION	SUPER	PREFINISHED	JET FUEL	REPROCESSING	DIESEL	AUTOMOT.	INDUSTRIAL	HEAVY	AFRICA	LOW SUL-	LUBRIC-	SOLVENTS
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	UM	FUEL OIL	C11-C14	AVIATION	SUPER	PREFINISHED	JET FUEL	REPROCESSING	DIESEL	AUTOMOT.	INDUSTRIAL	HEAVY	AFRICA	LOW SUL-	LUBRIC-	SOLVENTS
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	UM	FUEL OIL	C11-C14	AVIATION	SUPER	PREFINISHED	JET FUEL	REPROCESSING	DIESEL	AUTOMOT.	INDUSTRIAL	HEAVY	AFRICA	LOW SUL-	LUBRIC-	SOLVENTS
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	UM	FUEL OIL	C11-C14	AVIATION	SUPER	PREFINISHED	JET FUEL	REPROCESSING	DIESEL	AUTOMOT.	INDUSTRIAL	HEAVY	AFRICA	LOW SUL-	LUBRIC-	SOLVENTS
1 DOMESTIC PRODUCTION	276		197	77	NA	112079	112079			3164					356	1166	1642	1567	55	0	-2278	-11695	0	0
2 EXPORT	0					8318	8108	205	3164	3164	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 EXPORT	-52		-43	-10		-79034	-79034		-16813	-151	-8	-8			-192	-150	-97	-53	-392					
4 INTERNATIONAL SPLIT									(-184)	(-131)	(-2)	(-2)			(-133)		(-83)	(-10)	(-53)	(-227)				
5 STOCK CHANGE	-10		5	-95	NA	2416	2416	0	585	278	112	1	11	169	-21	-243	314	327	-31	114	53	245	6	4
6 PRIMARY ENERGY SUPPLY	134		162	-28	0	41274	41369	205	-10943	2791	165	-7	11	169	143	923	1058	1617	-19	-168	-2174	-10769	6	4
7 DEFICIT						-36582	-36582	0	36245	22030	4286	28	128	1197	239	7148	7215	5777	1438	3171	1222	12435	117	23
8 NSL (LPG, LPG)									206															
9 CHEMICAL ENERGY									0															
10 PETROCHEMICAL LPG																								
11 PUBLIC UTILITY				NA					-2024	-2018														
12 PUMP-UP USE																								
13 AUTO GENERATION	-57		-57						-1273	-1273														
14 THERM GAS	0			NA					-27	-27														
15 COKE	0																							
16 BRIDGE	0																							
17 TRANSFORMATION (TOTAL)	-57		-57			-36582	-36582	0	33565	18145	4286	28	128	1197	239	7148	7215	3920	995	2035	1222	12435	117	23
18 CRUDE OIL FIELD						-260	-260		-171	-171														
19 NATURAL GAS FIELD																								
20 DEFICIT						-721	-721		-1060	-1015														
21 R&L PLANT									0	0														
22 CHEMICAL ENERGY PLANT									0	0														
23 PUBLIC UTILITY									0	0														
24 THERM GAS									0	0														
25 COKE PLANT									0	0														
26 BRIDGE									0	0														
27 COAL MINE	0		NA	NA	NA				0	0														
28 FLARE AND LOSSES	-15		-15	NA	NA	-73	-73	0	0	0														
29 ENERGY SECTOR USE LOSSES	-15		-15	0	0	-1654	-1654	0	-1231	-1174														
30 STATISTICAL DIFFERENCE	47		8	59		-1158	-3953	-205	2520	3037	48	3	-17	61	119	1283	450	16	354	807	953	-1674	195	0
31 FINAL CONSUMPTION	128		77	31	0				23991	23297	1119	25	120	4274	823	9355	6815	5590	1225	1885	0		318	27
32 FINAL ENERGY USE	77		77	0	0				23347	23297	1119	25	120	4274	823	9355	6815	5590	1225	1885	0			
33 INDUSTRY	73		73	0	0				1239	1239														
34 AGRICULTURE FORESTRY									473	473														
35 FISHERY									0	0														
36 MINING (EXCL. ENERGY SEC.)	12		12	0					270	270														
37 CONSTRUCTION									98	98														
38 MANUFACTURING	0		61	0	0				3317	3317														
39 FOODS									582	582														
40 TEXTILE									607	607														
41 WOOD									129	129														
42 PAPER, PULP									164	164														
43 CHEMISTRY (FUEL USED)									332	332														
44 CERAMICS, CEMENTS	53		53		NA				951	951														
45 IRON, STEEL									217	217														
46 NON-FERROUS METALS	0								0	0														
47 METAL EXPT., MACHINERY									31	31														
48 SHIP, VESSEL, OTHERS	0								372	372														
49 RESIDENT, COMMERCIAL (TOTAL)									1155	9355														
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION (TOTAL)	24		24						9948	9048	4158	17	118	1920	781									
53 AIR TRANSPORTATION									469	469	15	15												
54 ROAD TRANSPORTATION									2278	2278	1139													
55 RAILWAYS	24		24						111	111														
56 INTERNAL NAVIGATION									531	531														
57 INTERNATIONAL SPLIT									184	184	2	2												
58 OTHERS (GOVERN., FORCES, ETC.)									657	657	213	8	1	254	39									
59 RAW MATER. USE IN CONSTR.									0	0														
60 OTHER USE OF ENERGY	31			31					644															
61 TOTAL USE IN CHEMISTRY									332	332														

2. List of Commodity Balance Table (1969-1979)

ENERGY BALANCES IN INDONESIA CA 1969

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF COAL C01-C05 TDR	COAKING COAL TDR	STEAM COAL TDR	ANTHRACITE TDR	LIGNITE TDR	TOTAL OF CRUDE OIL C06-C08 M3BL	ORIGINAL CRUDE OIL M3BL	REDUCED CRUDE OIL M3BL	PETROLEUM PRODUCTS C09-C20 M3BL	DOMESTIC FUEL OIL C10-C20 M3BL	GASOLINE C11-C14 M3BL	AVIATION M3BL	SUPER M3BL	PREMIUM M3BL	JET FUEL M3BL	KEROSENE M3BL	DIESEL C17-C19 M3BL	ADIBOT. M3BL	INDUST. M3BL	HEAVY FUEL OIL M3BL	NAPHTHA M3BL	LOW SUL. WAX PETISQUE M3BL	LUBRI- CANTS M3BL	SOLVENTS M3BL	
1 DOMESTIC PRODUCTION	0	0	0	0	NA	270251	270251																		
2 IMPORT	0	0	0	0		217		217																	
3 EXPORT	0					-189817		-189817		-1582	-256	0	0	-256	-231	0	-153	-151	-2	-141	0	-21761	0	0	
4 INTERNATIONAL UNLIFT	0	0	NA	NA	NA	0	0	0	()	(-211)	()	()		()	()		(-26)	(-8)	(-16)	(-145)	0	-21761	0	0	-46
5 STOCK CHANGE	0	0																							
6 PRIMARY ENERGY SUPPLY	0	0	0	0	0	82352	82134	217		-1582	-256	0	0	-256	-231	0	-153	-151	-2	-141	0	-21761	0	0	-46
7 REFINERY						-75921	-75703	-217		7658	1737	33	1	1704	282	2252	1331	969	342	2055	0	14958	21	288	
8 MRLUG, LPG																									
9 CHEMICAL ENERGY																									
10 PETROCHEMICAL LPG																									
11 PUBLIC UTILITY	0		NA							-220							-152	-134	-13	-68					
12 PUMP-UP USE																									
13 AUTO GENERATION	0		0							-122							-122	-73	-19	0					
14 TOUR GAS	0	0	NA							-6															
15 COKE	0	0															0	-6	-1	-6					
16 BATTERY	0																								
17 TRANSFORMATION(TOTAL)	0	0	0	0	0	-75921	-75703	-217		7318	1737	33	1	1704	282	2252	1651	762	269	1937	0	14958	21	288	
18 CRUDE OIL FIELD						0	NA			0															
19 NATURAL GAS FIELD																									
20 REFINERY						0	0			0															
21 MGL PLANT																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOUR GAS																									
25 COKE PLANT																									
26 BATTERY																									
27 COAL WASTE	0		NA	NA	NA	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	0	0	0	0	0	-8431	-8431	0		-11	6	-1	0	10	25	461	-142	-95	-17	-389	0	1021	0	0	0
31 FINAL CONSUMPTION	0	0	0	0	0					5718	1487	28	1	1457	75	2713	756	516	240	624	0		21	154	
32 FINAL ENERGY USE	0	0	0	0	0					5718	1487	28	1	1457	75	2713	756	516	240	624	0		21	154	
33 INDUSTRY										521															
34 AGRICULTURE/FORESTRY										33							303	158	144	222	0				
35 FISHERY										0							20	19	18	5					
36 DOMESTIC ENERGY SEC. I										88							88	29	51	0					
37 CONSTRUCTION										0							0	0	0	0					
38 MANUFACTURING										418							194	111	84	217	0				
39 FOODS										108							22	14	8	84					
40 FERTILE										20							15	13	2	5					
41 RUBBER										23							16	7	9	6					
42 PAPER,PULP										17							6	2	4	18					
43 CHEMISTRY(FUEL USED)										2							0	0	0	2	NA				
44 CERAMICS,CEMENTS					NA					183							22	5	17	89					
45 IRON,STEEL										0							0	0	0	0					
46 NON-FERROUS METALS										0							0	0	0	0					
47 METAL FABRI.,MACHINERY										0							0	NA	0	0					
48 SHALV WARES,OTHERS										137							0	0	0	0					
49 RESIDENT.,CONSER.(TOTAL)										2713							2713								
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION(TOTAL)	0	0	0	0	0					2256	1437	28	6	1457	75		271	181	89	420					
53 AIR TRANSPORTATION										104	29	28			25		0	0	0	0					
54 ROAD TRANSPORTATION										1548	1458		6	1457			110	168	2	0					
55 RAILWAYS										170							37	34	2	133					
56 INTERNAL NAVIGATION										202	0						108	32	68	182					
57 INTERNATIONAL RELIEF										211	0	0					26	8	18	115					
58 OTHERS(GOVERN.,FORCES E)										224	0	0	0	0	0		189	173	7	44					
59 RAW MATER. USE IN CREC.																					NA				
60 OTHER NON-ENERGY USE	0	0	0	0	0																		21	154	
61 TOTAL USE IN CHEMISTAT										2							0	0	0	2	0				

ENERGY BALANCES IN INDONESIA CA 1970

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL	COALING COAL	STEAM COAL	ANTHRACITE	LIGNITE	TOTAL OF CRUDE OIL	ORIGINAL CRUDE OIL	REMOVED CRUDE OIL	PETROLEUM PRODUCTS	DOMESTIC FUEL OIL	GASOLINE	AVIATION	SUPER	PREMIUM	JET FUEL	KEROSENE	DIESEL	AUTOMOT.	INDUSTRI.	HEAVY FUEL OIL	KAPHTHA	LOW SULFUR FERTILIZER	LIUBRICANTS	SOLVENTS
	TOH	TOH	TOH	TOH	TOH	MBBL	MBBL	MBBL	CMS-CMS	C10-C10	KKL	KKL	KKL	KKL	KKL	KKL	KKL	KKL	KKL	KKL	MBBL	MBBL	MBBL	MBBL
1 DOMESTIC PRODUCTION	0	0	0	0	NA	311518	311518				0	0	0	0	0	0	0	0	0	0	0		0	0
2 IMPORT	0	0	0	0		2363	0	2363			0	0	0	0	0	0	0	0	0	0	0		0	0
3 EXPORT	0	0	0	0		-228268	-228268																	
4 INTERNATIONAL SPLIT	0	0	NA	NA	NA	-2921	0	-2921																
5 STOCK CHANGE	0	0	0	0	0	0	0	0																
6 PRIMARY ENERGY SUPPLY	0	0	0	0	0	83592	83250	342			-1794	-363	-5		-358	-24	-32	-32	0	-1376	0	-23254	0	-37
7 REFINERY	0	0	0	0	0	-81825	-80483	-342			8356	1948	27	7	1913	146	2363	1435	962	472	2444	0	23893	17
8 WCL (LPG)																								
9 CHEMICAL ENERGY																								
10 PETROCHEMICAL LPG																								
11 PUBLIC UTILITY	0	0	NA								-271													
12 FURNACE USE	0	0	0	0	0																			
13 WIND GENERATION	0	0	0	0	0						-177													
14 TOCH GAS	0	0	NA								-6													
15 COKE	0	0	0	0	0																			
16 BRITNEY	0	0	0	0	0																			
17 TRANSFORMATIONS TOTAL	0	0	0	0	0	-81825	-80183	-342			7819	1948	27	7	1913	146	2363	1464	683	381	2359	0	23893	17
18 CRUDE OIL FIELD							NA																	
19 NATURAL GAS FIELD																								
20 REFINERY																								
21 NGL PLANT																								
22 CHEMICAL ENERGY PLANT																								
23 PUBLIC UTILITY																								
24 TOCH GAS																								
25 COKE PLANT																								
26 BRITNEY																								
27 COAL WIRE	0	0	NA	NA	NA	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	0	0	0	0	0	-2767	-2767	0			34	-13	-1	0	-13	-13	315	-121	-32	-91	-179	0	-517	0
31 FINAL CONSUMPTION	0	0	0	0	0						6123	1574	22	7	1544	188	2728	968	619	298	884	0		17
32 FINAL ENERGY USE	0	0	0	0	0						6123	1574	22	7	1544	188	2728	968	619	298	884	0		17
33 INDUSTRY											715						442	212	200	274	0			
34 AGRICULTURE FORESTRY											47						35	23	13	12				
35 FISHERY											0						0	0	0	0				
36 MINING ENERGY SEC.											91						91	35	56	0				
37 CONSTRUCTION											0						0	0	0	0				
38 MANUFACTURES											577						318	184	132	261	0			
39 FOODS											19						21	16	5	69				
40 TEXTILE											13						25	20	5	8				
41 RUBBER											37						5	2	3	15				
42 PAPER PULP											26						0	0	0	1				
43 CHEMISTRY (FUEL USE)											1						23	8	18	94				
44 CERAMICS CEMENTS						NA					112						0	0	0	0				
45 IRON STEEL											0						0	0	0	0				
46 NON-FERROUS METALS											0						0	0	0	0				
47 METAL FABR. MACHINERY											0						0	0	0	0				
48 SERRA WARE OTHERS											284						212	125	87	72				
49 RESIDENTIAL, COMMERCIAL TOTAL											2728						2728							
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION TOTAL	0	0	0	0	0						2518	1574	22	7	1544	188	323	236	87	509				
53 AIR TRANSPORTATION											130	22	22				0	0	3	0				
54 ROAD TRANSPORTATION											1776	1552	7	1544			154	151	2	121				
55 RAILWAYS											141						49	38	2	100				
56 INTERNAL NAVIGATION											199	0					89	36	53	100				
57 INTERNATIONAL SPLIT											327						39	10	29	287				
58 OTHERS (GOVERN., FORCES E)											165	0	0	0	0	0	113	149	3	22				
59 RAW MATER. USE IN CHEM.																								
60 OTHER NON-ENERGY USE	0	0	0	0	0																			17
61 TOTAL USE IN CHEMISTRY																								

ENERGY BALANCES IN INDONESIA CA 1971

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF	COALING	STEAM	ANTHRA-	LIGNITE	TOTAL OF	ORIGINAL	REDUCED	PETROLEUM-	DOMESTIC	GASOLINE	AVIATION	SUPER	PREMICH	JET FUEL	PETROLINE	DIESEL	AVIATION	INDUST.	HEAVY	KAPRITA	LAB. SOL.	LOBBE-	SOLVENTS	
	COAL	COAL	COAL	CITE		CRUDE	CRUDE	CRUDE	OR PRODUCTS	FUEL OIL	C11-C14	KXL	KXL	KXL	KXL	KXL	KXL	KXL	KXL	FUEL OIL	KBL	WAXY	OLBS-	KBL	
	TCH	TCH	TCH	TCH	TCH	Oil	Oil	Oil	C07-C28	C19-C20	KXL	KXL	KXL	KXL	KXL	KXL	KXL	KXL	KXL	KXL	KBL	KBL	KBL	KBL	
1 DOMESTIC PRODUCTION	19254		19254	0	NA	32549	32549																		
2 IMPORT	0	0				2529		2529		1911	1	1	0	0	0	923	0	0	0	0	189				
3 EXPORT	0									884	-17	-2	0	-17	0	0	0	0	0	0	-837				
4 INTERNATIONAL DEPLETION						-239585	-239585			-2411	0	0	0	0	0	0	-541	-41	-521	-1851					
5 STOCK CHANGE	-51277	0	-51277	NA	NA	307		307		0	0	0	0	0	0	0	0	0	0	0					
6 PRIMARY ENERGY SUPPLY	146979	0	146979	0	0	89700	85044	2835		125	-18	-1	0	-17	0	923	0	0	0	-657	0				
7 REFINERY						-93014	-92260	-2814		8432	2017	32	18	1766	164	2362	1448	1151	471	2242	0				
8 MILLING, LPG																									
9 CHEMICAL ENERGY																									
10 PETROCHEMICAL LPG																									
11 PUBLIC UTILITY	0		NA																						
12 PUMP-UP USE																									
13 AUTO GENERATION	-71836		-71836																						
14 TOUGH GAS	0	0																							
15 COAL	0	0																							
16 BIOGAS	0	0																							
17 TRANSFORMATION (TOTAL)	-71836	0	-71836			-93014	-92260	-2814		7901	2017	32	18	1766	164	2362	1229	818	383	2133	0				
18 CRUDE OIL FIELD							NA																		
19 NATURAL GAS FIELD																									
20 REFINERY																									
21 WGL PLANT																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOUGH GAS																									
25 COAL PLANT																									
26 BIOGAS																									
27 COAL WIRE	-24610		-24610	NA	NA	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-24610	0	-24610			0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATISTICAL DIFFERENCE	51051	0	51051	0	0	4114	4136	-22		-1307	-254	-11	-2	-242	-16	-141	-128	-82	-66	-747					
31 FINAL CONSUMPTION	101776		101776							6721	1714	21	16	1678	166	3024	1108	791	317	729					
32 FINAL ENERGY USE	101776		101776							5721	1714	21	16	1678	166	3024	1108	791	317	729					
33 INDUSTRY	53422		53422														528	311	217	311					
34 AGRICULTURE FORESTRY										59							19	25	15	19					
35 FISHERY										0							0	0	0	0					
36 MINING & ENERGY SEC.										97							97	37	69	0					
37 CONSTRUCTION										0							0	0	0	0					
38 MANUFACTURING	53422		53422							684							391	249	142	292					
39 FOODS										117							34	22	12	81					
40 TEXTILE										58							41	27	17	14					
41 RUBBER										42							33	28	13	9					
42 PAPER, PULP										28							9	3	6	19					
43 CHEMISTRY (FUEL USED)										3							0	0	0	3					
44 CERAMICS, CEMENTS										137							36	8	22	187					
45 IRON, STEEL										0							0	0	0	0					
46 NON-FERROUS METALS										0							0	0	0	0					
47 METAL FABRI., MACHINERY										0							0	0	0	0					
48 SMALL WARES, OTHERS	4354		4354							278							241	170	71	57					
49 RESIDENT., COMMER. (TOTAL)										3024							3024								
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION (TOTAL)	49354		49354							2675	1714	21	16	1678	166		129	334	95	365					
53 AIR TRANSPORTATION										165	21	21					0	0	0	0					
54 ROAD TRANSPORTATION										1513	1671			1678			269	286	3	0					
55 RAILWAYS	49354		49354							166							49	38	1	127					
56 INTERNAL NAVIGATION										177							125	86	39	74					
57 INTERNATIONAL SHIPPI										243							54	4	52	185					
58 OTHERS (GOVERN., FORCES, E)										182							151	143	4	31					
59 RAW MATER. USE IN CHEM.																									
60 OTHER NON-ENERGY USE																									
61 TOTAL USE IN CHEMISTRY																									

ENERGY BALANCES IN INDONESIA CA 1972

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TOTAL OF COAL T0N C01-C05	COALING COAL T0N	STEAM COAL T0N	ANTHRA- CITE T0N	LIGNITE T0N	TOTAL OF CRUDE OIL C06-C08 M30L	ORIGINAL CRUDE OIL M30L	REDUCED CRUDE OIL M30L	PETROLE- UM PRODUCTS C09-C20 M30L	HOUSEHOLD FUEL OIL C10-C20 M30L	GASOLINE C11-C14 M30L	AVIATION M30L	SUPER M30L	PREMIUM M30L	JET FUEL M30L	KEROSENE M30L	DIESEL C17-C19 M30L	AUTOMOT. M30L	INDUSTRIAL M30L	HEAVY FUEL OIL M30L	KAPHTHA M30L	LOW SUL. WAXY RESIDUE M30L	CARBON BLACK M30L	SOLVENTS M30L	
1 DOMESTIC PRODUCTION	179249		179249	0	NA	395569	395569								11	375	0	0	0	197			42	1	
2 IMPORT	11885	11885				718	0	718	1392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 EXPORT	0		0	0		-294149	-294149													-558		-39508		0	
4 INTERNATIONAL OPIED)																									
5 STOCK CHANGE	17246	0	15741	1595	NA	416	0	416	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 PRIMARY ENERGY SUPPLY	208371	11885	194990	1595	0	102576	101812	1164	834	0	0	0	0	0	11	375	0	0	0	428	0	-39508	42	1	
7 REFINERY						-101576	-104112	-1164	7918	1014	29	33	1741	188	2437	2017	1275	272	1431	1980	39458	31	145		
8 WELDRS, LPG)																									
9 DOMESTIC ENERGY																									
10 PETROCHEMICAL LPG									-259								-108	-148	-49	-72					
11 PUBLIC UTILITY	0		NA																						
12 FACTORY USE																									
13 AUTO GENERATION	-23986		-23186																						
14 TOWN GAS	-11885	-11885	NA						-241																
15 COKE	0	0																							
16 BRIDGES	0	0	0																						
17 TRANSFORMATION(TOTAL)	-85871	-11885	-23186			-101576	-104112	-1164	7155	1014	29	33	1741	188	2437	1486	961	642	1359	1980	39458	31	145		
18 CRUDE OIL FIELD						0	NA																		
19 NATURAL GAS FIELD						0	0																		
20 REFINERY						0	0																		
21 MFL PLANT																									
22 CHEMICAL ENERGY PLANT																									
23 PUBLIC UTILITY																									
24 TOWN GAS																									
25 COKE PLANT																									
26 BRIDGE																									
27 COAL MINE	-135410		-135410	NA	NA																				
28 FLEET AND LOSSES	0	0	0	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 ENERGY SECTOR USE LOSSES	-135410	0	-135410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 STATUS FISCAL DIFFERENCE	89544	0	89544	0	0	-1040	-1050	0	-292	-50	-2	-1	-19	-8	459	-187	189	-318	-1004	-1989	-159	0	0	0	
31 FINAL CONSUMPTION	86654		85149	1595	0				7417	1744	19	32	1714	191	3291	1419	1124	296	783	0			73	147	
32 FINAL ENERGY USE	86654		85149	0	0				7417	1744	19	32	1714	191	3291	1419	1124	296	783	0					
33 INDUSTRY	55101		55101	0	0				1654											159	0				
34 AGRICULTURE FORESTRY									41											12	16				
35 FISHERY									0											0	0				
36 MINING(ENERGY SEC.)	0		0	0	0				107											57	3				
37 CONSTRUCTION									0											0	0				
38 MANUFACTURING	55101		55101	0	0				892											442	211	169	450	0	
39 FOODS									928											48	34	13	80		
40 TEXTILE									104											77	37	48	29		
41 RUBBER									55											42	25	17	13		
42 PAPER,PULP									35											11	6	5	25		
43 CHEMISTS(FUEL USE)									87											5	5	0	82	NA	
44 CERAMICS,CERAMIS	50303		50303		NA				225											45	0	37	189		
45 IRON,STEEL									9											4	3	0	5		
46 NON-FERROUS METALS	0			0					0											0	NA	0	0		
47 METAL FABRI.,MACHINERY									0											0	0	0	0		
48 SMALL WARE,OTHERS	4710		4710						265											210	184	47	55		
49 RESIDENTIAL,COMMERCIAL(TOTAL)									3211																
50 RESIDENTIAL																									
51 COMMERCIAL																									
52 TRANSPORTATION(TOTAL)	30840		30840						2618	1744	19	32	1714	191						692	643	47	270		
53 AIR TRANSPORTATION									209	19	19									0	0				
54 ROAD TRANSPORTATION									2494	1744			32	1714						449	445	3	0		
55 RAILWAYS	30840		30840						141											34	33	1	107		
56 INTERNAL NAVIGATION									217	0				0						209	164	45	8		
57 INTERNATIONAL OPIED)									155	0	0			0						0	0	0	155		
58 OTHERS(GOVERN.,FORCES E)									189	0	0	0	0	0	0					143	124	17	44		
59 NON-PAYERS, USE IN COEN.																									
60 OTHER NON-ENERGY USE	1595			1595																				73	147
61 TOTAL USE IN CHEMISTRY																									

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
OTHERS (GREASE, ASPH., 8) KBL	PETROLEUM OR COKE KBL	REFINERY GAS BCF	LPG KBL	NATURAL GAS KWH	LNG (CONDENSATES) KBL	LNG MMB	METHANOL TON	TOWN GAS MMB	COKE TON	COKE OVEN GAS MMB	BLAST SURFACE GAS MMB	BRIQUETS TON	WOOD MMB	CHARCOAL TON	FUEL ETHANOL FROM BICASS TON	AGRI- CULTURAL WASTES MMB	HYDRO GENERATION PUBLIC UTILITY GWH	ADIO GENERAT. GWH	NUCLEAR GENERAT -TION GWH	SOUTHERN PUBLIC UTILITY GWH	OTHER GENERAT. GWH	PUBLIC UTILITY GWH	ADIO GENERAT. GWH	TOTAL OF ELEC- TRICITY GWH	PUBLIC UTILITY GWH	AUTO GENERAT. -TION GWH	GRAND TOTAL	
148 -419				159767									51421	NA	0	84355	1293	0	0	0	0	0	0	0	0	0		
0	NA												NA	NA	0													
-321	0		-28	159767									51421	0	0	84355	1293	0	0	0	0	0	0	0	0	0		
1991	176	3268	71	-6698																								
				NA																								
				0			38937	0	0	0	0	0												877	0	677		
																	-1293	0	0	0	0	0	0	2519	2519	0		
1991	176	3268	71	-4558																								
				0																								
				-30951 -1621																								
		-3288		0																								
				0																								
				0																								
				-182919				-8745																				
		-3288		-134796				-8745																				
				-465																								
878	176		43	8118			0	29192					53121	0	0	84355												
			43	4169			0	21692					53121	0	0	84355												
				4169				0					27927			41138												
				NA									23017			33377												
				4169									4710			7761												
				4169									4710			7761												
	NA																											
			EA	0																								
			43	0				29992					25116	NA		49217												
													48															
													48															
878	176			0																								
				0	8118																							

ENERGY BALANCES IN INDONESIA CA 1973

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	TOTAL OF COAL C01-C05 TON	COAKERS COAL TON	STEAM COAL TON	ANTHRA- CITE TON	LIGNITE TON	TOTAL OF CRUDE OIL C06-C08 M3BL	ORIGINAL CRUDE OIL M3BL	REDUCED CRUDE OIL M3BL	REFINERY- BY PRODUCTS C09-C20	DOMESTIC FUEL OIL C10-C20 M3BL	GASOLINE C11-C14 M3BL	AVIATION M3BL	SUPER M3BL	PREMIUM M3BL	JET FUEL M3BL	HEAVY FUEL OIL M3BL	DIESEL C17-C19 M3BL	AUTOMOT. M3BL	INDUSTRIAL M3BL	HEAVY FUEL OIL M3BL	NAPHTHA M3BL	LOW SUL. WAXY RESIDUE M3BL	LUBRI- CANTS M3BL	SOLVENTS M3BL
1 DOMESTIC PRODUCTION	148926		445470	3354	NA	428534	428534			1849					122	310	246	246		1163			17	11
2 IMPORT	2550	2550				978		978																
3 EXPORT	0					-369543	-369543			-49												-53780		
4 INTERNATIONAL WPLIFF	33787		33787	-59	NA	907		907		-175														
5 STOCK CHANGE																								
6 PRIMARY ENERGY SUPPLY	185123	2550	479257	3295	0	126978	118993	1855		1791					122	310	246	246		1111	0	-53780	17	11
7 REFINERY						-126549	-118555	-1895		8267	2416	5	61	1909	153	3189	2370	1723	446	540	1061	53434	32	180
8 WGLIUB, LPOI																								
9 CHEMICAL ENERGY																								
10 PETROCHEMICAL LPOI																					0			
11 PUBLIC UTILITY	0		NA							-327							-246	-198	-49	-81				
12 PUMP-UP USE																								
13 AUTO GENERATION	-48195		-48195							-313							-313	-218	-14	0				
14 TORN GAS	-2518	-2518	NA							-16							-16	-1	-15	0				
15 CORE	0	0																						
16 BRIDGE	0		0																					
17 TRANSFORMATION TOTAL	-50785	-2518	-48195			-126549	-118555	-1895		7552	2416	5	61	1909	153	3189	1795	1398	459	459	1061	53434	32	180
18 CRUDE OIL FIELD						0	NA			0							0	0	0	0				
19 NATURAL GAS FIELD										0							0	0	0	0				
20 REFINERY						0	0			0							0	0	0	0				
21 BCL PLANT										0							0	0	0	0				
22 CHEMICAL ENERGY PLANT										0							0	0	0	0				
23 PUBLIC UTILITY										0							0	0	0	0				
24 TORN GAS										0							0	0	0	0				
25 CORE PLANT										0							0	0	0	0				
26 BRIDGE										0							0	0	0	0				
27 COAL WIDE	-13678		-13678	NA						0							0	0	0	0				
28 FLARE AND LOSSES	0	0	NA	NA	NA	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 ENERGY SECTOR USE LOSSES	-13678	0	-13678	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 STATIS YOCAL DIFFERENCE	-33789	0	-32883	-906	0	-338	-338	0		-697	-97	-2	-3	-92	-16	276	-177	-48	-128	-681	-1061	376	0	0
31 FINAL CONSUMPTION	84951		84591	2369	0					8645	1949	3	58	1888	244	3685	1883	1564	359	684	0		78	180
32 FINAL ENERGY USE	84591		84591	0	0					8645	1949	3	58	1888	244	3685	1883	1564	359	684	0			
33 INDUSTRY	45207		45207	0	0					1283							251	675	279	530	0			
34 AGRICULTURE FORESTRY										77							59	41	14	18				
35 FISHERY										0							0	0	0	0				
36 MINING (EX. ENERGY SEC.)	0		0							126							123	54	70	3				
37 CONSTRUCTION										0							0	0	0	0				
38 MANUFACTURING	45207		45207	0	0					1480							0	0	0	0				
39 FOODS										153							571	377	195	598	0			
40 TEXTILE										131							82	41	16	51				
41 RUBBER										69							54	33	21	15				
42 PAPER, PULP										12							14	0	6	28				
43 CHEMISTRY (FUEL USE)										27							7	7	0	79	NA			
44 CERAMICS, CEMENTS	48186		48186		NA					259							56	10	45	261				
45 IRON, STEEL										11							5	5	1	6				
46 NON-FERROUS METALS	0			0						0							0	NA	0	0				
47 METAL FABRI., MACHINERY										0							0	0	0	0				
48 SMALL WARE, OTHERS	5821		5821							338							276	219	57	62				
49 RESIDENTIAL, COMMER. (TOTAL)										3485							3685							
50 RESIDENTIAL																								
51 COMMERCIAL																								
52 TRANSPORTATION (TOTAL)	39384		39384							3188	1788	3	57	1818	244		920	869	59	308				
53 AIR TRANSPORTATION										267	3	3					0	0	0	0				
54 ROAD TRANSPORTATION										2297	1677		57	1818	244		690	576	0	0				
55 RAILWAYS	39384		39384							166							45	41	1	121				
56 INTERNAL NAVIGATION										283	0	0					274	220	54	9				
57 INTERNATIONAL WPLIFF										175	0	0					0	1	0	175				
58 OTHERS (OVERSEAS, FOREIGN)										419	247	0	1	218	0		199	167	21	50				
59 RAW MATERI. USE IN COEN.																					NA			
60 OTHER NON-ENERGY USE	2318				2318																		78	110
61 TOTAL USE IN COENSTRY										77							2	2	0	20	0			

