

Mark Warner's NJ Energy Flow Data: 2006

Tab 1. Model Inputs and Calculations: pg. 2

Tab 2. Model Outputs pg. 7

Tab 3. EIA Data pg. 13

Tab 4. Other Data pg. 29

Tab 5. Summary Charts pg. 36

Tab 6. Top 10 pg. 46

Tab 7. Notes pg. 47

Tab 1. Model Inputs and Calculations

ALL DATA ARE FOR 2006 UNLESS OTHERWISE NOTED						
		Yellow Background = Hard Input Parameter from EIA, PJM, or CEP data sources				
		Gree Background = Calculated Result				
		Purple Background = Inferred input from intermediate calculation/data				
	Primary Energy Consumption					
On-Site Fuel Use By Sector	Fuel Consumed	Units	Conversion	Fuel Energy	Units	EIA Code
Residential						
Nat Gas	197,205	Million Cu-Ft.	1.03625	204,354	B-BTUs	NGRCP
Distillate Fuel Oil	7,079	Thousand Barrels	5.82512	41,236	B-BTUs	DFRCP
LPG	1,036	Thousand Barrels	3.83687	3,975	B-BTUs	LGRCF
Kerosene	116	Thousand Barrels	5.67241	658	B-BTUs	KSRCF
Renewable: Wood	63	Thousand Cords	19.90476	1,254	B-BTUs	WDRCP
Renewable: Geothermal (heat)		N/A	N/A	221	B-BTUs	GERCB
Total: Residential On-Site Fuel Use:				251,698		
Commercial						
Natural Gas	152,501	Million Cu-Ft.	1.03625	158,029	B-BTUs	NGCCP
Coal	2	Thousand Short Tons	24.50000	49	B-BTUs	CLCCP
Distillate Fuel Oil	2,092	Thousand Barrels	5.82600	12,188	B-BTUs	DFCCP
Residual Fuel Oil	217	Thousand Barrels	6.27649	1,362	B-BTUs	RFCCP
LPG	327	Thousand Barrels	3.83792	1,255	B-BTUs	LGCCP
Kerosene	140	Thousand Barrels	5.67143	794	B-BTUs	KSCCP
Ethanol	5	Thousand Barrels	3.40000	17	B-BTUs	ENCCP
Motor Gasoline	70	Thousand Barrels	5.18571	363	B-BTUs	MGCCP
Renewable: Wood		N/A	N/A	211	B-BTUs	WDCCB
Renewable: Waste		N/A	N/A	32	B-BTUs	WSCCB
Renewable: Geothermal (heat)		N/A		0	B-BTUs	GECCB
Total: Commercial On-Site Fuel Use:				174,300		

Industrial						
Natural Gas	65,632	Million Cu-Ft.	1.03626	68,012	B-BTUs	NGICP
Coal	5	Thousand Short Tons	23.40000	117	B-BTUs	CLICP
Distillate Fuel Oil	2,231	Thousand Barrels	5.82384	12,993	B-BTUs	DFICP
Residual Fuel Oil	217	Thousand Barrels	6.27649	1,362	B-BTUs	RFICP
LPG	546	Thousand Barrels	3.54212	1,934	B-BTUs	LGICP
Kerosene	515	Thousand Barrels	5.67378	2,922	B-BTUs	KSICP
Ethanol	79	Thousand Barrels	3.46835	274	B-BTUs	ENICP
Motor Gasoline	1,096	Thousand Barrels	5.21989	5,721	B-BTUs	MGICP
Aviation Gasoline	5	Thousand Barrels	4.6	23	B-BTUs	ABICP
Petroleum Coke (assumed to be used as energy)	4,739	Thousand Barrels	6.02363	28,546	B-BTUs	PCICP
Miscellaneous Petroleum (assumed used as energy)	735	Thousand Barrels	5.79319	4,258	B-BTUs	MSICP
Other Petroleum (assumed used as energy)	15,984	Thousand Barrels	5.96784	95,390	B-BTUs	POICP
Renewable: Wood		N/A		3,381	B-BTUs	WDICB
Renewable: Waste		N/A		684	B-BTUs	WSICB
Renewable: Geothermal (heat)		N/A		0	B-BTUs	GEICB
Non--Energy: Still Gas (assumed used as feedstock)	9,489	Thousand Barrels	N/A	N/A	B-BTUs	SGICP
Non-Energy: Asphalt and Road Oil (feedstock)	4,947	Thousand Barrels	N/A	N/A	N/A	ARICP
Non-Energy: Lubricants (feedstock)	1,422	Thousand Barrels	N/A	N/A	N/A	LUICP
Non-Energy: Waxes (feedstock)	119	Thousand Barrels	N/A	N/A	N/A	WXICP
Non-Energy: Special Napthas (feedstock)	456	Thousand Barrels	N/A	N/A	N/A	SNICP
Non-Energy: Unfinished Oils (feedstock)	443	Thousand Barrels	N/A	N/A	N/A	UOICP
Total: Industrial On-Site Fuel Use (energy only):				225,617		

Industrial On-Site Electricity Generation				
% Of On-Site Fuel Used For Electricity Generation:				31.85%
Average Efficiency Of Electricity Generation:				12.99%
Onsite Fuel Dedicated To Onsite Generation (B-BTUs):				71,859
	Electricity Generated Onsite (B-BTUs):			9,334
Note: Source - EIA MECS national profile for 2005, same %'s applied to NJ				
Note: See "Other Data" tab for sources and detailed calculations				
Note: Most of the generation is CHP, steam is primary output				

	Primary Supply (Physical Units)				==>	Primary Supply (Energy Units)			Delivered (Generated) Electricity				
Electricity Generation	Consumption	Fuel Units	EIA Code		Conversion		Consumption	Energy Units	EIA Code	Generation	Energy Units	EIA Code	% Efficiency
Centralized Generation (In-State)													
Nuclear	N/A	N/A			N/A		339,846	B. BTUs	NUEGB	111,126	B. BTUs	NUEGP	32.7%
Nat Gas and other gases	130,664	Million Cu-Ft.	NGEIP		1.03521		135,265	B. BTUs		53,839	B. BTUs	EIA NJ Profile	39.8%
Coal	4,635	Th. Short Tons	CLEIP		25.01014		115,922	B. BTUs		37,062	B. BTUs	EIA NJ Profile	32.0%
Distillate Fuel Oil	127	Th. Barrels	DFEIP		5.80315		737	B. BTUs		920	B. BTUs	EIA NJ Profile	45.5%
Residual Fuel Oil	205	Th. Barrels	RFEIP		6.27317		1,286	B. BTUs				EIA NJ Profile	
Renewable: Wood	N/A	N/A			N/A		0	B. BTUs	WDEIB	0	B. BTUs	EIA NJ Profile	N/A
Renewable: Waste (MSW)	N/A	N/A			N/A		13,537	B. BTUs	WSEIB	1,940	B. BTUs	EIA NJ Profile	14.3%
Renewable: Other Biomass and Landfill Gas	N/A	N/A			N/A		10,245	B. BTUs	EIA NJ Profile	3,074	B. BTUs	EIA NJ Profile	30.0%
Renewable - Hydro	N/A	N/A			N/A		338	B. BTUs	HYEGB	119	B. BTUs	HYEGP	35.2%
Renewable - Solar (grid)	N/A	B-BTUs					0	B. BTUs	See below	0	B. BTUs	See below	
Renewable - Wind (grid)	N/A	B-BTUs					0.183	B. BTUs	See below	0.055	B. BTUs	PJM Data	
Total Centralized In-State Generation:							617,176	B. BTUs		208,080	B. BTUs		

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Consolidated Summary For InfoGraphic	Primary	Generated	
In-state Generation			
Grid Solar	0	0	B-BTUs
Grid Wind	0.183	0.055	B-BTUs
Large Hydro	338	119	B-BTUs
Wood & Waste	23,782	5,014	B-BTUs
Nuclear	339,846	111,126	B-BTUs
Fuel Oil	2,023	920	B-BTUs
Coal	115,922	37,062	B-BTUs
Natural Gas	135,265	53,839	B-BTUs
Utility Power Distribution By Segment	B-BTUs	%	EIA Code
Residential	97,657	35.9%	ESRCB
Commercial	134,561	49.5%	ESCCB
Industrial	38,660	14.2%	ESICB
Transportation	994	0.4%	ESACB
Total:	271,872		
Notes On Electricity Generation Data			
(1) "Wood and Waste" includes biomass, wood, MSW, landfill gas			
(2) Fuel Oil combines distillate and residual oils			
(3) Natural Gas includes associated fossil-fuel gases			

	Primary Energy Consumption							Fuel Distribution By Fuel Type and Vehicle Class				
Fueled Transportation	Fuel Cons.	Units	Conversion	Fuel Energy	Units	EIA Code		Light	Heavy	Trains	Ships	Planes
Fuel Use By Fuel Type												
Gasoline	102,414	Thousand Barrels	5.21799	534,395	Billion BTUs	MGACP		0.94839	0.03749	0.00000	0.01239	0.00174
Bio-Fuel: Ethanol	7,386	Thousand Barrels	3.46800	25,615	Billion BTUs	ENACP		1.00000				
Natural Gas	1,202	Million Cu-Ft.	1.03661	1,246	Billion BTUs	NGACP		0.00000	1.00000			
LP (mostly non-Highway, forklifts, etc)	70	Thousand Barrels	3.84286	269	Billion BTUs	LGACP			1.00000			
Distillate Fuel Oil (Vehicle or Road Diesel)	25,123	Thousand Barrels	5.82498	146,341	Billion BTUs	DFACP		0.06202	0.81172	0.07984	0.04644	0.00000
Residual Fuel Oil (Diesel - Mostly Marine)	15,991	Thousand Barrels	6.28709	100,537	Billion BTUs	RFACP					1.00000	
Aviation Gasoline	88	Thousand Barrels	5.05682	445	Billion BTUs	AVACP						1.00000
Jet Fuel (Kerosene)	33,726	Thousand Barrels	5.66993	191,224	Billion BTUs	JFACP						1.00000
Non-Energy: Lubricants	611	Thousand Barrels	6.06710	3,707	Billion BTUs	LUACP		Note: See "other data" tab for sources of fuel-use by vehicle class				
Fuel Use By Vehicle Class (primarily road use)	Light	Heavy	Trains	Ships	Planes							
Gasoline	506,814.0	20,032.2		6,620.7	931.7	B-BTUs						
Bio-Fuel: Ethanol	25,614.6					B-BTUs						
Natural Gas	0.0	1,246.0				B-BTUs						
LP		269.0										
Distillate Fuel Oil (Road Diesel)	9,075.4	118,788.3	11,683.6	6,796.0		B-BTUs						
Residual Fuel Oil (Marine Diesel)				100,536.9		B-BTUs						
Aviation Gasoline					445.0	B-BTUs						
Jet Fuel					191,224.1	B-BTUs						

Tab 2. Model Outputs

Model Outputs (matching formata of infographic)					
Emission Factors (converts mass of primary supply to CO2 emissions)					
	Pounds				
	Of CO2				
Fuel Type	Per B-BTU	Source			
Coal (average)	210,200	(1)			
Road/Vehicle Diesel and Heating Oil	161,300	(1)			
Residual Oil (marine)	173,700	(1)			
Other Petroleum	160,100	(1)			
Gasoline	157,200	(1)			
Propane	139,000	(1)			
Natural Gas	117,000	(1)			
Kerosene	159,400	(1)			
Pet Coke	225,100	(1)			
Municipal Solid Waste	199,900	(2)			
Jet Fuel	156,300	(1)			
Aviation Gasoline	152,600	(1)			
Liquid Biofuel: Ethanol	127,332	(3) 19% less than gasoline net impact			
Wood and Wood Waste:	221,900	(2)			

Sources:						
(1) EIA	http://www.eia.gov/environment/emissions/co2_vol_mass.cfm					
(2) EIA	http://www.mwcog.org/uploads/committee-documents/vlZeWV420070820112319.pdf					
(3) DOE	http://www.afdc.energy.gov/vehicles/flexible_fuel_emissions.html					

Preliminary Calculations		
Total Primary Energy Use (B-BTUs)		
Onsite Fuel Use:	651,615	26.3%
In-State Electricity:	617,513	24.9%
Imported Electricity:	212,635	8.6%
Transportation:	1,000,077	40.3%
Total:	2,481,840	
Fossil Fuel (B-BTUs)		
Total Coal:	116,088	4.7%
Total NatGas:	566,905	22.8%
Total: LPG	7,433	0.3%
Total: Fuel Oil	71,164	2.9%
Total: Kerosene	4,374	0.2%
Total: Gasoline	540,479	21.8%
Total: Vehicle Diesel	146,341	5.9%
Total: Marine Diesel	100,537	4.1%
Total: Jet Fuel	191,224	7.7%
Total: Aviation Gasoline	468	0.0%
Total: Misc. Petroleum	128,194	5.2%
In-State Fossil:	1,873,207	
Total: PJM Fossil Fuel	137,788	5.6%
Total Fossil Fuel:	2,010,995	81.0%

PJM Generation (w/o NJ fleet) 2006		
PJM Fuel Type	%	CO2 (pounds)
Methane (LFG)	0.001539	38,289,850
Coal	0.611365	27,325,548,140
Natural Gas	0.032414	806,409,172
Hydro	0.012183	0
Nuclear	0.332356	0
Distillate Fuel Oil	0.000637	21,847,058
Petroleum Coke	0	0
Residual Fuel Oil	0.002388	88,186,991
Solar	0	0
Waste	0.004374	185,923,709
Wind	0.001241	0
Wood	0.001502	70,893,246
Total		28,537,098,166

Percentages come from "Other Data" tab, PJM supply mix table (w/o NJ)

Non-Fossil Fuel (B-BTUs)		
Grid Solar	0	0.0%
Grid RE Other	0.183	0.0%
Large Hyrdo	338	0.0%
Central W&W	23,782	1.0%
Bio-Fuel: Ethanol	25,906	1.0%
Nuclear	339,846	13.7%
Dist. Solar	337	0.0%
Dist. W&W	5,562	0.2%
Dist. Geothermal	221	0.0%
In-State Non-Fossil:	395,992	
PJM Non-Fossil Fuel	74,848	3.0%
Total Non-Fossil Fuel:	470,840	
Total Energy (B-BTUs)		
Total In-State:	2,269,199	91.4%
Total Out-Of State:	212,635	8.6%
Total Primary Energy:	2,481,835	B-BTUs
Fossil Fuel Fraction:	81.0%	

Emissions Calculations (organized to match the infographic)

Primary Energy					Delivered Energy				E-Factor	Discount	CO2 Emissions (pounds)		CO2 (MMT)
			P-C-NG	158,029		D-C-NG	158,029		117,000	1.00	E-C-NG	18,489,411,866	8.404
			P-C-FO	13,550		D-C-FO	13,550		161,300	1.00	E-C-FO	2,185,613,440	0.993
			P-C-LP	1,255		D-C-LP	1,255		139,000	1.00	E-C-LP	174,444,978	0.079
			P-C-KE	794		D-C-KE	794		159,400	1.00	E-C-KE	126,563,632	0.058
			P-C-MG	363		D-C-MG	363		157,200	1.00	E-C-MG	57,063,553	0.026
			P-C-CL	49		D-C-CL	49		210,200	1.00	E-C-CL	10,299,800	0.005
			P-C-DW	243		D-C-DW	243		221,900	1.00	E-C-DW	53,921,700	0.025
			P-C-BF	17		D-C-BF	17		127,332	1.00	E-C-BF	2,164,644	0.001
			P-C-UP	134561		D-C-UP	134,561		N/A	N/A	E-D-UP		0.000
			P-C-DS	249		D-C-DS	75		0	1.00	E-C-DS	0	0.000
			P-C-GE	0		D-C-GE	0		N/A	N/A	E-C-GE		0.000
			P-C-TE	309,111		D-C-TE	309,111				E-C-TE	21,099,483,613	9.591
			P-I-NG	68,012		D-I-NG	68,012		117,000	1.00	E-I-NG	7,957,382,509	3.617
			P-I-FO	14,355		D-I-FO	14,355		161,300	1.00	E-I-FO	2,315,459,140	1.052
			P-I-LP	1,934		D-I-LP	1,934		139,000	1.00	E-I-LP	268,825,655	0.122
			P-I-KE	2,922		D-I-KE	2,922		159,400	1.00	E-I-KE	465,766,274	0.212
			P-I-CL	117		D-I-CL	117		210,200	1.00	E-I-CL	24,593,400	0.011
			P-I-MP	128,194		D-I-MP	128,194		192,600	1.00	E-I-MP	24,690,151,261	11.223
			P-I-MG	5,721		D-I-MG	5,721		157,200	1.00	E-I-MG	899,341,112	0.409
			P-I-DW	4,065		D-I-DW	4,065		221,900	1.00	E-I-DW	902,023,500	0.410
			P-I-BF	274		D-I-BF	274		127,332	1.00	E-I-BF	34,888,923	0.016
			P-I-AG	23		D-I-AG	23		152,600	1.00	E-I-AG	3,509,800	0.002
			P-I-UP	38660		D-I-UP	38,660		N/A	1.00	E-I-UP		0.000
			P-I-DS	0		D-I-DS	0		0	1.00	E-I-DS	0	0.000
			P-I-GE	0		D-I-GE	0		N/A	1.00	E-I-GE		0.000
			P-I-TE	264,277		D-I-TE	264,277				E-I-TE	37,561,941,575	17.074

Primary Energy						Delivered Energy			E-Factor	Discount	CO2 Emissions (pounds)		CO2 (MMT)
			P-L-MG	506,814		D-L-MG	506,814		157,200	1.00	E-L-MG	79,671,153,807	36.214
			P-L-BF	25,615		D-L-BF	25,615		127,332	1.00	E-L-BF	3,261,564,359	1.483
			P-L-VD	9,075		D-L-VD	9,075		161,300	1.00	E-L-VD	1,463,855,162	0.665
			P-L-NG	0		D-L-NG	0		117,000	1.00	E-L-NG	0	0.000
			P-H-VD	118,788		D-H-VD	118,788		161,300	1.00	E-H-VD	19,160,556,099	8.709
			P-H-MG	20,032		D-H-MG	20,032		157,200	1.00	E-H-MG	3,149,063,801	1.431
			P-H-NG	1,246		D-H-NG	1,246		117,000	1.00	E-H-NG	145,782,611	0.066
			P-H-LP	269		D-H-LP	269		139,000	1.00	E-H-LP	37,391,028	0.017
			P-T-VD	11,684		D-T-VD	11,684		161,300	1.00	E-T-VD	1,884,556,744	0.857
			P-S-MD	100,537		D-S-MD	100,537		173,700	1.00	E-S-MD	17,463,251,920	7.938
			P-S-MG	6,621		D-S-MG	6,621		157,200	1.00	E-S-MG	1,040,778,683	0.473
			P-S-VD	6,796		D-S-VD	6,796		161,300	1.00	E-S-VD	1,096,189,214	0.498
			P-P-JF	191,224		D-P-JF	191,224		156,300	1.00	E-P-JF	29,888,320,450	13.586
			P-P-AG	445		D-P-AG	445		152,600	1.00	E-P-AG	67,907,024	0.031
			P-P-MG	932		D-P-MG	932		157,200	1.00	E-P-MG	146,468,084	0.067
			P-T-UP	994		D-T-UP	994		N/A	N/A	E-T-UP		0.000
			P-V-RP	0		D-V-RP	0		N/A	N/A	E-V-RP		0.000
			P-V-CP	0		D-V-CP	0		N/A	N/A	E-V-CP		0.000
			P-V-IP	0		D-V-IP	0		N/A	N/A	E-V-IP		0.000
											E-A-TE	158,476,838,986	72.035

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Tab 3. EIA Data

	The following data from EIA SEDS data covering NJ fuel and energy consumption for NJ in 2006 (http://www.eia.gov/state/seds/)			
	The field codes in column A are referenced in the "model inputs" tab in every case where this data is used.			
MSN	Description	Year	Data	Unit
ABICB	Aviation gasoline blending components consumed by the industrial sector.	2006	23	Billion Btu
ABICP	Aviation gasoline blending components consumed by the industrial sector.	2006	5	Thousand barrels
ARICB	Asphalt and road oil consumed by the industrial sector.	2006	32828	Billion Btu
ARICD	Asphalt and road oil price in the industrial sector.	2006	7	Dollars per million Btu
ARICP	Asphalt and road oil consumed by the industrial sector.	2006	4947	Thousand barrels
ARICV	Asphalt and road oil expenditures in the industrial sector.	2006	246	Million dollars
ARTCB	Asphalt and road oil total consumption.	2006	32828	Billion Btu
ARTCD	Asphalt and road oil average price, all sectors.	2006	7	Dollars per million Btu
ARTCP	Asphalt and road oil total consumption.	2006	4947	Thousand barrels
ARTCV	Asphalt and road oil total expenditures.	2006	246	Million dollars
ARTXB	Asphalt and road oil total end-use consumption.	2006	32828	Billion Btu
ARTXD	Asphalt and road oil average price, all end-use sectors.	2006	7	Dollars per million Btu
ARTXP	Asphalt and road oil total end-use consumption.	2006	4947	Thousand barrels
ARTXV	Asphalt and road oil total end-use expenditures.	2006	246	Million dollars
AVACB	Aviation gasoline consumed by the transportation sector.	2006	445	Billion Btu
AVACD	Aviation gasoline price in the transportation sector.	2006	22	Dollars per million Btu
AVACP	Aviation gasoline consumed by the transportation sector.	2006	88	Thousand barrels
AVACV	Aviation gasoline expenditures in the transportation sector.	2006	9	Million dollars
AVTCB	Aviation gasoline total consumption.	2006	445	Billion Btu
AVTCD	Aviation gasoline average price, all sectors.	2006	22	Dollars per million Btu
AVTCP	Aviation gasoline total consumption.	2006	88	Thousand barrels
AVTCV	Aviation gasoline total expenditures.	2006	9	Million dollars
AVTXB	Aviation gasoline total end-use consumption.	2006	445	Billion Btu
AVTXD	Aviation gasoline average price, all end-use sectors.	2006	22	Dollars per million Btu
AVTXP	Aviation gasoline total end-use consumption.	2006	88	Thousand barrels
AVTXV	Aviation gasoline total end-use expenditures.	2006	9	Million dollars
BMTCB	Biomass total consumption	2006	45004	Billion Btu
CLACB	Coal consumed by the transportation sector.	2006	0	Billion Btu
CLACD	Coal price in the transportation sector.	2006	0	Dollars per million Btu
CLACK	Factor for converting coal consumed by the transportation sector from physical units to Btu.	2006	0	Million Btu per short ton
CLACP	Coal consumed by the transportation sector.	2006	0	Thousand short tons
CLACV	Coal expenditures in the transportation sector.	2006	0	Million dollars
CLCCB	Coal consumed by the commercial sector.	2006	49	Billion Btu
CLCCD	Coal price in the commercial sector.	2006	2	Dollars per million Btu
CLCCP	Coal consumed by the commercial sector.	2006	2	Thousand short tons

CLCCV	Coal expenditures in the commercial sector.	2006	0	Million dollars
CLEIB	Coal consumed by the electric power sector.	2006	115922	Billion Btu
CLEID	Coal price in the electric power sector.	2006	2	Dollars per million Btu
CLEIK	Factor for converting coal consumed by the electric power sector from physical units to Btu.	2006	25	Million Btu per short ton
CLEIP	Coal consumed by the electric power sector.	2006	4635	Thousand short tons
CLEIV	Coal expenditures in the electric power sector.	2006	316	Million dollars
CLHCK	Factor for converting coal consumed by the residential and commercial sectors from physical units	2006	25	Million Btu per short ton
CLICB	Coal consumed by the industrial sector.	2006	117	Billion Btu
CLICD	Coal price in the industrial sector.	2006	2	Dollars per million Btu
CLICP	Coal consumed by the industrial sector.	2006	5	Thousand short tons
CLICV	Coal expenditures in the industrial sector.	2006	0	Million dollars
CLKCB	Coal consumed at coke plants (coking coal).	2006	0	Billion Btu
CLKCD	Coal price at coke plants.	2006	0	Dollars per million Btu
CLKCK	Factor for converting coal carbonized at coke plants from physical units to Btu.	2006	0	Million Btu per short ton
CLKCP	Coal consumed at coke plants (coking coal).	2006	0	Thousand short tons
CLKCV	Coal expenditures at coke plants.	2006	0	Million dollars
CLOCB	Coal consumed by industrial users other than coke plants.	2006	117	Billion Btu
CLOCD	Coal price in the industrial sector other than coke plants.	2006	2	Dollars per million Btu
CLOCK	Factor for converting coal consumed by industrial users other than coke plants from physical units	2006	25	Million Btu per short ton
CLOCP	Coal consumed by industrial users other than coke plants.	2006	5	Thousand short tons
CLOCV	Coal expenditures in the industrial sector other than coke plants.	2006	0	Million dollars
CLOSB	Coal consumed by the industrial sector excluding refinery fuel.	2006	117	Billion Btu
CLPRB	Coal production.	2006	0	Billion Btu
CLPRK	Factor for converting coal production from physical units to Btu.	2006	0	Million Btu per short ton
CLPRP	Coal production.	2006	0	Thousand short tons
CLRCB	Coal consumed by the residential sector.	2006	5	Billion Btu
CLRCD	Coal price in the residential sector.	2006	5	Dollars per million Btu
CLRCP	Coal consumed by the residential sector.	2006	0	Thousand short tons
CLRCV	Coal expenditures in the residential sector.	2006	0	Million dollars
CLRFB	Coal consumed as refinery fuel.	2006	1	Billion Btu
CLTCB	Coal total consumption.	2006	116093	Billion Btu
CLTCD	Coal average price, all sectors.	2006	2	Dollars per million Btu
CLTCP	Coal total consumption.	2006	4642	Thousand short tons
CLTCV	Coal total expenditures.	2006	316	Million dollars
CLTXB	Coal total end-use consumption.	2006	171	Billion Btu
CLTXD	Coal average price, all end-use sectors.	2006	2	Dollars per million Btu
CLTXP	Coal total end-use consumption.	2006	7	Thousand barrels
CLTXV	Coal total end-use expenditures.	2006	0	Million dollars
CLXCD	Coal average price for all sectors excluding refinery fuel.	2006	2	Dollars per million Btu
CLXCV	Coal expenditures for all sectors excluding refinery fuel.	2006	316	Million dollars

COICB	Crude oil consumed by the industrial sector.	2006	0	Billion Btu
COICP	Crude oil consumed by the industrial sector.	2006	0	Thousand barrels
COPRK	Factor for converting crude oil production from physical units to Btu.	2006	0	Million Btu per barrel
DFACB	Distillate fuel oil consumed by the transportation sector.	2006	146341	Billion Btu
DFACD	Distillate fuel oil price in the transportation sector.	2006	18	Dollars per million Btu
DFACP	Distillate fuel oil consumed by the transportation sector.	2006	25123	Thousand barrels
DFACV	Distillate fuel oil expenditures in the transportation sector.	2006	2747	Million dollars
DFCCB	Distillate fuel oil consumed by the commercial sector.	2006	12188	Billion Btu
DFCCD	Distillate fuel oil price in the commercial sector.	2006	15	Dollars per million Btu
DFCCP	Distillate fuel oil consumed by the commercial sector.	2006	2092	Thousand barrels
DFCCV	Distillate fuel oil expenditures in the commercial sector.	2006	192	Million dollars
DFEIB	Distillate fuel oil consumed by the electric power sector.	2006	737	Billion Btu
DFEID	Distillate fuel oil price in the electric power sector.	2006	14	Dollars per million Btu
DFEIP	Distillate fuel oil consumed by the electric power sector.	2006	127	Thousand barrels
DFEIV	Distillate fuel oil expenditures in the electric power sector.	2006	10	Million dollars
DFICB	Distillate fuel oil consumed by the industrial sector.	2006	12993	Billion Btu
DFICD	Distillate fuel oil price in the industrial sector.	2006	15	Dollars per million Btu
DFICP	Distillate fuel oil consumed by the industrial sector.	2006	2231	Thousand barrels
DFICV	Distillate fuel oil expenditures in the industrial sector.	2006	203	Million dollars
DFISB	Distillate fuel oil consumed by the industrial sector excluding refinery fuel.	2006	12979	Billion Btu
DFRCB	Distillate fuel oil consumed by the residential sector.	2006	41236	Billion Btu
DFRCD	Distillate fuel oil price in the residential sector.	2006	18	Dollars per million Btu
DFRCP	Distillate fuel oil consumed by the residential sector.	2006	7079	Thousand barrels
DFRCV	Distillate fuel oil expenditures in the residential sector.	2006	780	Million dollars
DFRFB	Distillate fuel oil consumed as refinery fuel.	2006	14	Billion Btu
DFTCB	Distillate fuel oil total consumption.	2006	213495	Billion Btu
DFTCD	Distillate fuel oil average price, all sectors.	2006	18	Dollars per million Btu
DFTCP	Distillate fuel oil total consumption.	2006	36651	Thousand barrels
DFTCV	Distillate fuel oil total expenditures.	2006	3936	Million dollars
DFTXB	Distillate fuel oil total end-use consumption.	2006	212757	Billion Btu
DFTXD	Distillate fuel oil average price, all end-use sectors.	2006	18	Dollars per million Btu
DFTXP	Distillate fuel oil total end-use consumption.	2006	36525	Thousand barrels
DFTXV	Distillate fuel oil total end-use expenditures.	2006	3925	Million dollars
DKEIB	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	2006	737	Billion Btu
DKEID	Distillate fuel oil and kerosene-type jet fuel average price in the electric power sector.	2006	14	Dollars per million Btu
DKEIP	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	2006	127	Thousand barrels
DKEIV	Distillate fuel oil and kerosene-type jet fuel expenditures in the electric power sector.	2006	10	Million dollars
ELEXB	Electricity exported from the United States.	2006	0	Billion Btu
ELEXD	Electricity exports average price.	2006	0	Dollars per million Btu
ELEXP	Electricity exported from the United States.	2006	0	Million kilowatthours

ELEXV	Electricity exports expenditures.	2006	0	Million dollars
ELIMB	Electricity imported into the United States.	2006	0	Billion Btu
ELIMD	Electricity imports average price.	2006	0	Dollars per million Btu
ELIMP	Electricity imported into the United States.	2006	0	Million kilowatthours
ELIMV	Electricity imports expenditures.	2006	0	Million dollars
ELISB	Net interstate flow of electricity and associated losses (negative and positive values).	2006	287943	Billion Btu
ELISP	Net interstate flow of of electricity.	2006	26981	Million kilowatthours
ELNIB	Net imports of electricity into the United States.	2006	0	Billion Btu
ELNIP	Net imports of electricity into the United States.	2006	0	Million kilowatthours
EMACB	Fuel ethanol, excluding denaturant, consumed by the transportation sector.	2006	25615	Billion Btu
EMCCB	Fuel ethanol, excluding denaturant, consumed by the commercial sector	2006	17	Billion Btu
EMFDB	Biomass inputs (feedstock) for the production of fuel ethanol.	2006	0	Billion Btu
EMICB	Fuel ethanol, excluding denaturant, consumed by the industrial sector.	2006	274	Billion Btu
EMLCB	Energy losses and co-products from the production of fuel ethanol.	2006	0	Billion Btu
EMTCB	Fuel ethanol, excluding denaturant, total consumption.	2006	25907	Billion Btu
ENACP	Fuel ethanol, including denaturant, consumed by the transportation sector.	2006	7386	Thousand barrels
ENCCP	Fuel ethanol, including denaturant, consumed by the commercial sector.	2006	5	Thousand barrels
ENICP	Fuel ethanol, including denaturant, consumed by the industrial sector.	2006	79	Thousand barrels
ENPRP	Fuel ethanol production, including denaturant.	2006	0	Thousand barrels
ENTCP	Fuel ethanol, including denaturant, total consumption.	2006	7470	Thousand barrels
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	2006	994	Billion Btu
ESACD	Electricity price in the transportation sector.	2006	28	Dollars per million Btu
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	2006	291	Million kilowatthours
ESACV	Electricity expenditures in the transportation sector.	2006	28	Million dollars
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	2006	134561	Billion Btu
ESCCD	Electricity price in the commercial sector.	2006	34	Dollars per million Btu
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	2006	39437	Million kilowatthours
ESCCV	Electricity expenditures in the commercial sector.	2006	4582	Million dollars
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	2006	38660	Billion Btu
ESICD	Electricity price in the industrial sector.	2006	30	Dollars per million Btu
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	2006	11331	Million kilowatthours
ESICV	Electricity expenditures in the industrial sector.	2006	1135	Million dollars
ESISB	Electricity sales to the industrial sector excluding refinery use.	2006	37209	Billion Btu
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	2006	97657	Billion Btu
ESRCD	Electricity price in the residential sector.	2006	37	Dollars per million Btu
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	2006	28622	Million kilowatthours
ESRCV	Electricity expenditures in the residential sector.	2006	3676	Million dollars
ESRFB	Electricity consumed by refineries.	2006	1451	Billion Btu
ESTCB	Electricity total consumption (i.e., sold).	2006	271871	Billion Btu
ESTCD	Electricity average price, all sectors.	2006	34	Dollars per million Btu

ESTCP	Electricity total consumption (i.e., sold).	2006	79681	Million kilowatthours
ESTCV	Electricity total expenditures.	2006	9422	Million dollars
ESTXB	Electricity total end-use consumption (i.e., sold).	2006	271871	Billion Btu
ESTXD	Electricity average price, all end-use sectors.	2006	34	Dollars per million Btu
ESTXP	Electricity total end-use consumption (i.e., sold).	2006	79681	Million kilowatthours
ESTXV	Electricity total end-use expenditures.	2006	9422	Million dollars
FFTCB	Fossil fuels, total consumption.	2006	1861046	Billion Btu
FNICB	Petrochemical feedstocks, naphtha, less than 401o F, consumed by the industrial sector.	2006	0	Billion Btu
FNICD	Petrochemical feedstocks, naphtha less than 401 F, price in the industrial sector.	2006	0	Dollars per million Btu
FNICP	Petrochemical feedstocks, naphtha less than 401o F, consumed by the industrial sector.	2006	0	Thousand barrels
FNICV	Petrochemical feedstocks, naphtha less than 401 F, expenditures in the industrial sector.	2006	0	Million dollars
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401o F, consumed by the industrial sector.	2006	0	Billion Btu
FOICD	Petrochemical feedstocks, other oils equal to or greater than 401o F, price in the industrial sector.	2006	0	Dollars per million Btu
FOICP	Petrochemical feedstocks, other oils equal to or greater than 401o F, consumed by the industrial sector.	2006	0	Thousand barrels
FOICV	Petrochemical feedstocks, other oils equal to or greater than 401o F, expenditures in the industrial sector.	2006	0	Million dollars
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector.	2006	0	Billion Btu
FSICD	Petrochemical feedstocks, still gas, price in the industrial sector.	2006	0	Dollars per million Btu
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector.	2006	0	Thousand barrels
FSICV	Petrochemical feedstocks, still gas, expenditures in the industrial sector.	2006	0	Million dollars
GDPRV	Current-dollar gross domestic product.	2006	454701	Million dollars
GDPRX	Real gross domestic product.	2006	440262	Million chained (2005) dollars
GECCB	Geothermal energy consumed by the commercial sector.	2006	0	Billion Btu
GEEGB	Geothermal energy consumed for electricity generation by the electric power sector.	2006	0	Billion Btu
GEEGP	Geothermal electricity net generation in the electric power sector.	2006	0	Million kilowatthours
GEICB	Geothermal energy consumed by the industrial sector.	2006	0	Billion Btu
GERCB	Geothermal energy consumed by the residential sector.	2006	221	Billion Btu
GETCB	Geothermal energy, total consumed.	2006	221	Billion Btu
GETXB	Geothermal energy, total end-use consumption.	2006	221	Billion Btu
HYCCB	Hydropower consumed by the commercial sector.	2006	0	Billion Btu
HYCCP	Hydroelectricity net generation in the commercial sector.	2006	0	Million kilowatthours
HYEGB	Hydropower consumed for electricity generation by the electric power sector.	2006	338	Billion Btu
HYEGP	Hydroelectricity net generation in the electric power sector.	2006	34	Million kilowatthours
HYICB	Hydropower consumed by the industrial sector.	2006	13	Billion Btu
HYICP	Hydroelectricity net generation in the industrial sector.	2006	1	Million kilowatthours
HYTCB	Hydropower, total consumed.	2006	351	Billion Btu
HYTCP	Hydroelectricity, total net generation.	2006	35	Million kilowatthours
HYTXB	Hydropower, total end-use consumption.	2006	13	Billion Btu
HYTXP	Hydroelectricity net generation, total end-use sectors.	2006	1	Million kilowatthours
JFACB	Jet fuel consumed by the transportation sector.	2006	191224	Billion Btu
JFACD	Jet fuel price in the transportation sector.	2006	14	Dollars per million Btu

JFACP	Jet fuel consumed by the transportation sector.	2006	33726	Thousand barrels
JFACV	Jet fuel expenditures in the transportation sector.	2006	2808	Million dollars
JFTCB	Jet fuel total consumption.	2006	191224	Billion Btu
JFTCD	Jet fuel average price, all sectors.	2006	14	Dollars per million Btu
JFTCP	Jet fuel total consumption.	2006	33726	Thousand barrels
JFTCV	Jet fuel total expenditures.	2006	2808	Million dollars
JFTXB	Jet fuel total end-use consumption.	2006	191224	Billion Btu
JFTXD	Jet fuel average price, all end-use sectors.	2006	14	Dollars per million Btu
JFTXP	Jet fuel total end-use consumption.	2006	33726	Thousand barrels
JFTXV	Jet fuel total end-use expenditures.	2006	2808	Million dollars
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	2006	191224	Billion Btu
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	2006	33726	Thousand barrels
JKTCB	Kerosene-type jet fuel total consumption.	2006	191224	Billion Btu
JKTCP	Kerosene-type jet fuel total consumption.	2006	33726	Thousand barrels
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	2006	0	Billion Btu
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	2006	0	Thousand barrels
JNTCB	Naphtha-type jet fuel total consumption.	2006	0	Billion Btu
JNTCP	Naphtha-type jet fuel total consumption.	2006	0	Thousand barrels
KSCCB	Kerosene consumed by the commercial sector.	2006	794	Billion Btu
KSCCD	Kerosene price in the commercial sector.	2006	18	Dollars per million Btu
KSCCP	Kerosene consumed by the commercial sector.	2006	140	Thousand barrels
KSCCV	Kerosene expenditures in the commercial sector.	2006	14	Million dollars
KSICB	Kerosene consumed by the industrial sector.	2006	2922	Billion Btu
KSICD	Kerosene price in the industrial sector.	2006	16	Dollars per million Btu
KSICP	Kerosene consumed by the industrial sector.	2006	515	Thousand barrels
KSICV	Kerosene expenditures in the industrial sector.	2006	47	Million dollars
KSRCB	Kerosene consumed by the residential sector.	2006	658	Billion Btu
KSRCD	Kerosene price in the residential sector.	2006	18	Dollars per million Btu
KSRCP	Kerosene consumed by the residential sector.	2006	116	Thousand barrels
KSRCV	Kerosene expenditures in the residential sector.	2006	11	Million dollars
KSTCB	Kerosene total consumption.	2006	4374	Billion Btu
KSTCD	Kerosene average price, all sectors.	2006	16	Dollars per million Btu
KSTCP	Kerosene total consumption.	2006	771	Thousand barrels
KSTCV	Kerosene total expenditures.	2006	73	Million dollars
KSTXB	Kerosene total end-use consumption.	2006	4374	Billion Btu
KSTXD	Kerosene average price, all end-use sectors.	2006	16	Dollars per million Btu
KSTXP	Kerosene total end-use consumption.	2006	771	Thousand barrels
KSTXV	Kerosene total end-use expenditures.	2006	73	Million dollars
LGACB	LPG consumed by the transportation sector.	2006	269	Billion Btu
LGACD	LPG price in the transportation sector.	2006	19	Dollars per million Btu

LGACP	LPG consumed by the transportation sector.	2006	70	Thousand barrels
LGACV	LPG expenditures in the transportation sector.	2006	5	Million dollars
LGCCB	LPG consumed by the commercial sector.	2006	1255	Billion Btu
LGCCD	LPG price in the commercial sector.	2006	19	Dollars per million Btu
LGCCP	LPG consumed by the commercial sector.	2006	327	Thousand barrels
LGCCV	LPG expenditures in the commercial sector.	2006	25	Million dollars
LGICB	LPG consumed by the industrial sector.	2006	1934	Billion Btu
LGICD	LPG price in the industrial sector.	2006	21	Dollars per million Btu
LGICP	LPG consumed by the industrial sector.	2006	546	Thousand barrels
LGICV	LPG expenditures in the industrial sector.	2006	39	Million dollars
LGISB	LPG consumed in the industrial sector excluding refinery fuel.	2006	1872	Billion Btu
LGRCB	LPG consumed by the residential sector.	2006	3975	Billion Btu
LGRCD	LPG price in the residential sector.	2006	27	Dollars per million Btu
LGRCP	LPG consumed by the residential sector.	2006	1036	Thousand barrels
LGRCV	LPG expenditures in the residential sector.	2006	110	Million dollars
LGRFB	LPG consumed as refinery fuel.	2006	63	Billion Btu
LGTCB	LPG total consumption.	2006	7434	Billion Btu
LGTCB	LPG average price, all sectors.	2006	24	Dollars per million Btu
LGTCP	LPG total consumption.	2006	1979	Thousand barrels
LGTCV	LPG total expenditures.	2006	180	Million dollars
LGTXB	LPG total end-use consumption.	2006	7434	Billion Btu
LGTXD	LPG average price, all end-use sectors.	2006	24	Dollars per million Btu
LGTXP	LPG total end-use consumption.	2006	1979	Thousand barrels
LGTXV	LPG total end-use expenditures.	2006	180	Million dollars
LOACB	The transportation sector's share of electrical system energy losses.	2006	2278	Billion Btu
LOCCB	The commercial sector's share of electrical system energy losses.	2006	308407	Billion Btu
LOICB	The industrial sector's share of electrical system energy losses.	2006	88607	Billion Btu
LORCB	The residential sector's share of electrical system energy losses.	2006	223825	Billion Btu
LOTB	Total electrical system energy losses.	2006	623118	Billion Btu
LOTXB	Total electrical system energy losses allocated to the end-use sectors.	2006	623118	Billion Btu
LUACB	Lubricants consumed by the transportation sector.	2006	3707	Billion Btu
LUACD	Lubricants price in the transportation sector.	2006	43	Dollars per million Btu
LUACP	Lubricants consumed by the transportation sector.	2006	611	Thousand barrels
LUACV	Lubricants expenditures in the transportation sector.	2006	162	Million dollars
LUICB	Lubricants consumed by the industrial sector.	2006	8626	Billion Btu
LUIDD	Lubricants price in the industrial sector.	2006	43	Dollars per million Btu
LUICP	Lubricants consumed by the industrial sector.	2006	1422	Thousand barrels
LUICV	Lubricants expenditures in the industrial sector.	2006	378	Million dollars
LUTCB	Lubricants total consumption.	2006	12333	Billion Btu
LUTCD	Lubricants average price, all sectors.	2006	43	Dollars per million Btu

LUTCP	Lubricants total consumption.	2006	2033	Thousand barrels
LUTCV	Lubricants average price, all sectors.	2006	541	Million dollars
LUTXB	Lubricants total end-use consumption.	2006	12333	Billion Btu
LUTXD	Lubricants average price, all end-use sectors.	2006	43	Dollars per million Btu
LUTXP	Lubricants total end-use consumption.	2006	2033	Thousand barrels
LUTXV	Lubricants total end-use expenditures.	2006	541	Million dollars
MBICB	Motor gasoline blending components consumed by the industrial sector.	2006	0	Billion Btu
MBICP	Motor gasoline blending components consumed by the industrial sector.	2006	0	Thousand barrels
MGACB	Motor gasoline consumed by the transportation sector.	2006	534395	Billion Btu
MGACD	Motor gasoline price in the transportation sector.	2006	19	Dollars per million Btu
MGACP	Motor gasoline consumed by the transportation sector.	2006	102414	Thousand barrels
MGACV	Motor gasoline expenditures in the transportation sector.	2006	10658	Million dollars
MGCCB	Motor gasoline consumed by the commercial sector.	2006	363	Billion Btu
MGCCD	Motor gasoline price in the commercial sector.	2006	19	Dollars per million Btu
MGCCP	Motor gasoline consumed by the commercial sector.	2006	70	Thousand barrels
MGCCV	Motor gasoline expenditures in the commercial sector.	2006	7	Million dollars
MGICB	Motor gasoline consumed by the industrial sector.	2006	5721	Billion Btu
MGICD	Motor gasoline price in the industrial sector.	2006	19	Dollars per million Btu
MGICP	Motor gasoline consumed by the industrial sector.	2006	1096	Thousand barrels
MGICV	Motor gasoline expenditures in the industrial sector.	2006	114	Million dollars
MGTCB	Motor gasoline total consumption.	2006	540479	Billion Btu
MGTCD	Motor gasoline average price, all sectors.	2006	19	Dollars per million Btu
MGTCP	Motor gasoline total consumption.	2006	103580	Thousand barrels
MGTCV	Motor gasoline total expenditures.	2006	10780	Million dollars
MGTPV	Motor gasoline expenditures per capita.	2006	1244	Dollars
MGTXB	Motor gasoline total end-use consumption.	2006	540479	Billion Btu
MGTXD	Motor gasoline average price, all end-use sectors.	2006	19	Dollars per million Btu
MGTXP	Motor gasoline total end-use consumption.	2006	103580	Thousand barrels
MGTXV	Motor gasoline total end-use expenditures.	2006	10780	Million dollars
MMTCB	Motor gasoline total consumption excluding fuel ethanol.	2006	514573	Billion Btu
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	2006	4258	Billion Btu
MSICD	Miscellaneous petroleum products price in the industrial sector.	2006	19	Dollars per million Btu
MSICP	Miscellaneous petroleum products consumed by the industrial sector.	2006	735	Thousand barrels
MSICV	Miscellaneous petroleum products expenditures in the industrial sector.	2006	82	Million dollars
NAICB	Natural gasoline consumed by the industrial sector.	2006	0	Billion Btu
NAICP	Natural gasoline consumed by the industrial sector.	2006	0	Thousand barrels
NGACB	Natural gas consumed by the transportation sector.	2006	1246	Billion Btu
NGACD	Natural gas price in the transportation sector.	2006	7	Dollars per million Btu
NGACP	Natural gas consumed by the transportation sector.	2006	1202	Million cubic feet
NGACV	Natural gas expenditures in the transportation sector.	2006	1	Million dollars

NGCCB	Natural gas consumed by (delivered to) the commercial sector (including supplemental gaseous fuels).	2006	158029	Billion Btu
NGCCD	Natural gas price in the commercial sector (including supplemental gaseous fuels).	2006	12	Dollars per million Btu
NGCCP	Natural gas consumed by (delivered to) the commercial sector (including supplemental gaseous fuels).	2006	152501	Million cubic feet
NGCCV	Natural gas expenditures in the commercial sector (including supplemental gaseous fuels).	2006	1979	Million dollars
NGEIB	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	2006	135265	Billion Btu
NGEID	Natural gas price in the electric power sector (including supplemental gaseous fuels).	2006	7	Dollars per million Btu
NGEIK	Factor for converting natural gas consumed by the electric power sector from physical units to Btu.	2006	1	Thousand Btu per cubic foot
NGEIP	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	2006	130664	Million cubic feet
NGEIV	Natural gas expenditures in the electric power sector (including supplemental gaseous fuels).	2006	1053	Million dollars
NGICB	Natural gas consumed by (delivered to) the industrial sector (including supplemental gaseous fuels).	2006	68012	Billion Btu
NGICD	Natural gas price in the industrial sector (including supplemental gaseous fuels).	2006	9	Dollars per million Btu
NGICP	Natural gas consumed by (delivered to) the industrial sector (including supplemental gaseous fuels).	2006	65632	Million cubic feet
NGICV	Natural gas expenditures in the industrial sector (including supplemental gaseous fuels).	2006	612	Million dollars
NGISB	Natural gas consumed by the industrial sector excluding refinery fuel (including supplemental gaseous fuels).	2006	61729	Billion Btu
NGLPB	Natural gas consumed as lease and plant fuel.	2006	0	Billion Btu
NGLPP	Natural gas consumed as lease and plant fuel.	2006	0	Million cubic feet
NGMPB	Natural gas marketed production.	2006	0	Billion Btu
NGMPK	Conversion factor for natural gas marketed production.	2006	0	Thousand Btu per cubic feet
NGMPP	Natural gas marketed production.	2006	0	Million cubic feet
NGPZB	Natural gas for pipeline and distribution use.	2006	990	Billion Btu
NGPZP	Natural gas for pipeline and distribution use.	2006	955	Million cubic feet
NGRCB	Natural gas consumed by (delivered to) the residential sector (including supplemental gaseous fuels).	2006	204354	Billion Btu
NGRCD	Natural gas price in the residential sector (including supplemental gaseous fuels).	2006	14	Dollars per million Btu
NGRCP	Natural gas consumed by (delivered to) the residential sector (including supplemental gaseous fuels).	2006	197205	Million cubic feet
NGRCV	Natural gas expenditures in the residential sector (including supplemental gaseous fuels).	2006	2940	Million dollars
NGRFB	Natural gas consumed as refinery fuel (including supplemental gaseous fuels).	2006	6283	Billion Btu
NGTCB	Natural gas total consumption (including supplemental gaseous fuels).	2006	566905	Billion Btu
NGTCD	Natural gas average price, all sectors (including supplemental gaseous fuels).	2006	11	Dollars per million Btu
NGTCK	Factor for converting natural gas total consumption from physical units to Btu.	2006	1	Thousand Btu per cubic foot
NGTCP	Natural gas total consumption (including supplemental gaseous fuels).	2006	547206	Million cubic feet
NGTCV	Natural gas total expenditures (including supplemental gaseous fuels).	2006	6587	Million dollars
NGTXB	Natural gas total end-use consumption (including supplemental gaseous fuels).	2006	431641	Billion Btu
NGTXD	Natural gas average price, all end-use sectors (including supplemental gaseous fuels).	2006	13	Dollars per million Btu
NGTXK	Factor for converting natural gas consumed by all sectors other than electric power from physical units to Btu.	2006	1	Thousand Btu per cubic foot
NGTXP	Natural gas total end-use consumption (including supplemental gaseous fuels).	2006	416542	Million cubic feet
NGTXV	Natural gas total end-use expenditures (including supplemental gaseous fuels).	2006	5534	Million dollars
NGVHB	Natural gas consumed as vehicle fuel.	2006	256	Billion Btu
NGVHP	Natural gas consumed as vehicle fuel.	2006	247	Million cubic feet
NNACB	Natural gas consumed by the transportation sector. (Code used in SEDS 2006.)	2006	1246	Billion Btu
NNCCB	Natural gas consumed by (delivered to) the commercial sector (excluding supplemental gaseous fuels).	2006	157979	Billion Btu

NNEIB	Natural gas consumed by the electric power sector (excluding supplemental gaseous fuels). (Code 2006	135221	Billion Btu
NNICB	Natural gas consumed by (delivered to) the industrial sector (excluding supplemental gaseous fuel 2006	67990	Billion Btu
NNRCB	Natural gas consumed by (delivered to) the residential sector (excluding supplemental gaseous fu 2006	204289	Billion Btu
NNTCB	Natural gas total consumption (excluding supplemental gaseous fuels). 2006	566724	Billion Btu
NUEGB	Nuclear energy consumed for electricity generation by the electric power sector. 2006	339846	Billion Btu
NUEGD	Nuclear fuel price in the electric power sector. 2006	0	Dollars per million Btu
NUEGP	Nuclear electricity net generation in the electric power sector. 2006	32568	Million kilowatthours
NUEGV	Nuclear fuel expenditures in the electric power sector. 2006	156	Million dollars
NUETB	Nuclear electric power consumed. 2006	339846	Billion Btu
NUETD	Nuclear fuel average price, all sectors. 2006	0	Dollars per million Btu
NUETP	Nuclear electricity, total net generation. 2006	32568	Million kilowatthours
NUETV	Nuclear fuel total expenditures. 2006	156	Million dollars
P1ICB	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the indus 2006	139766	Billion Btu
P1ICD	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" average price in the in 2006	15	Dollars per million Btu
P1ICP	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the indus 2006	22869	Thousand barrels
P1ICV	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" expenditures in the in 2006	821	Million dollars
P1TCB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	145370	Billion Btu
P1TCD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" aver 2006	17	Dollars per million Btu
P1TCP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	23824	Thousand barrels
P1TCV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	1020	Million dollars
P1TXB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	145370	Billion Btu
P1TXD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" aver 2006	17	Dollars per million Btu
P1TXP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	23824	Thousand barrels
P1TXV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total 2006	1020	Million dollars
P5RFB	Other petroleum products (SG and PC consumed as process fuel and AB, MB, PP, and UO consumed 2006	88081	Billion Btu
PAACB	All petroleum products consumed by the transportation sector. 2006	976918	Billion Btu
PAACD	All petroleum products average price in the transportation sector. 2006	17	Dollars per million Btu
PAACP	All petroleum products consumed by the transportation sector. 2006	178023	Thousand barrels
PAACV	All petroleum products total expenditures in the transportation sector. 2006	17019	Million dollars
PACCB	All petroleum products consumed by the commercial sector. 2006	15961	Billion Btu
PACCD	All petroleum products average price in the commercial sector. 2006	15	Dollars per million Btu
PACCP	All petroleum products consumed by the commercial sector. 2006	2846	Thousand barrels
PACCV	All petroleum products total expenditures in the commercial sector. 2006	251	Million dollars
PAEIB	All petroleum products consumed by the electric power sector. 2006	2023	Billion Btu
PAEID	All petroleum products average price in the electric power sector. 2006	9	Dollars per million Btu
PAEIP	All petroleum products consumed by the electric power sector. 2006	331	Thousand barrels
PAEIV	All petroleum products total expenditures in the electric power sector. 2006	18	Million dollars
PAICB	All petroleum products consumed by the industrial sector. 2006	163364	Billion Btu
PAICD	All petroleum products average price in the industrial sector. 2006	16	Dollars per million Btu
PAICP	All petroleum products consumed by the industrial sector. 2006	27211	Thousand barrels

PAICV	All petroleum products total expenditures in the industrial sector.	2006	1199	Million dollars
PAPRB	Crude oil production (including lease condensate).	2006	0	Billion Btu
PAPRP	Crude oil production (including lease condensate).	2006	0	Thousand barrels
PARCB	All petroleum products consumed by the residential sector.	2006	45869	Billion Btu
PARCD	All petroleum products average price in the residential sector.	2006	19	Dollars per million Btu
PARCP	All petroleum products consumed by the residential sector.	2006	8231	Thousand barrels
PARCV	All petroleum products total expenditures in the residential sector.	2006	903	Million dollars
PATCB	All petroleum products total consumption.	2006	1204136	Billion Btu
PATCD	All petroleum products average price, all sectors.	2006	17	Dollars per million Btu
PATCP	All petroleum products total consumption.	2006	216642	Thousand barrels
PATCV	All petroleum products total expenditures.	2006	19391	Million dollars
PATXB	All petroleum products total end-use consumption.	2006	1202112	Billion Btu
PATXD	All petroleum products average price, all end-use sectors.	2006	17	Dollars per million Btu
PATXP	All petroleum products total end-use consumption.	2006	216311	Thousand barrels
PATXV	All petroleum products total end-use expenditures.	2006	19372	Million dollars
PCCCB	Petroleum coke consumed by the commercial sector.	2006	0	Billion Btu
PCCCD	Petroleum coke price in the commercial sector.	2006	0	Dollars per million Btu
PCCCP	Petroleum coke consumed by the commercial sector.	2006	0	Thousand barrels
PCCCV	Petroleum coke expenditures in the commercial sector.	2006	0	Million dollars
PCEIB	Petroleum coke consumed by the electric power sector.	2006	0	Billion Btu
PCEID	Petroleum coke price in the electric power sector.	2006	0	Dollars per million Btu
PCEIP	Petroleum coke consumed by the electric power sector.	2006	0	Thousand barrels
PCEIV	Petroleum coke expenditures in the electric power sector.	2006	0	Million dollars
PCICB	Petroleum coke consumed by the industrial sector.	2006	28546	Billion Btu
PCICD	Petroleum coke price in the industrial sector.	2006	0	Dollars per million Btu
PCICP	Petroleum coke consumed by the industrial sector.	2006	4739	Thousand barrels
PCICV	Petroleum coke expenditures in the industrial sector.	2006	0	Million dollars
PCISB	Petroleum coke price in the industrial sector excluding refinery fuel.	2006	0	Billion Btu
PCRFB	Petroleum coke consumed as refinery fuel.	2006	28546	Billion Btu
PCTCB	Petroleum coke total consumption.	2006	28546	Billion Btu
PCTCD	Petroleum coke average price, all sectors.	2006	0	Dollars per million Btu
PCTCP	Petroleum coke total consumption.	2006	4739	Thousand barrels
PCTCV	Petroleum coke total expenditures.	2006	0	Million dollars
PEACD	Primary energy average price in the transportation sector.	2006	17	Dollars per million Btu
PEACV	Primary energy total expenditures in the transportation sector.	2006	17021	Million dollars
PECCD	Primary energy average price in the commercial sector.	2006	12	Dollars per million Btu
PECCV	Primary energy total expenditures in the commercial sector.	2006	2231	Million dollars
PEEID	Primary energy average price in the electric power sector.	2006	2	Dollars per million Btu
PEEIV	Primary energy total expenditures in the electric power sector.	2006	1575	Million dollars
PEICD	Primary energy average price in the industrial sector.	2006	13	Dollars per million Btu

PEICV	Primary energy total expenditures in the industrial sector.	2006	1813	Million dollars
PERCD	Primary energy average price in the residential sector.	2006	15	Dollars per million Btu
PERCV	Primary energy total expenditures in the residential sector.	2006	3848	Million dollars
PETCD	Primary energy average price, all sectors.	2006	12	Dollars per million Btu
PETCV	Primary energy total expenditures.	2006	26490	Million dollars
PETXD	Primary energy average price, all end-use sectors.	2006	16	Dollars per million Btu
PETXV	Primary energy total end-use expenditures.	2006	24914	Million dollars
PLICB	Plant condensate consumed by the industrial sector.	2006	0	Billion Btu
PLICP	Plant condensate consumed by the industrial sector.	2006	0	Thousand barrels
PMTCB	All petroleum products total consumption excluding fuel ethanol.	2006	1178229	Billion Btu
POICB	Other petroleum products consumed by the industrial sector.	2006	95390	Billion Btu
POICD	Other petroleum products average price in the industrial sector.	2006	20	Dollars per million Btu
POICP	Other petroleum products consumed by the industrial sector.	2006	15984	Thousand barrels
POICV	Other petroleum products total expenditures in the industrial sector.	2006	149	Million dollars
POTCB	Other petroleum products total consumption.	2006	95390	Billion Btu
POTCD	Other petroleum products average price, all sectors.	2006	20	Dollars per million Btu
POTCP	Other petroleum products total consumption.	2006	15984	Thousand barrels
POTCV	Other petroleum products total expenditures.	2006	149	Million dollars
POTXB	Other petroleum products total end-use consumption.	2006	95390	Billion Btu
POTXD	Other petroleum products average price, all end-use sectors.	2006	20	Dollars per million Btu
POTXP	Other petroleum products total end-use consumption.	2006	15984	Thousand barrels
POTXV	Other petroleum products total end-use expenditures.	2006	149	Million dollars
PPICB	Pentanes plus consumed by the industrial sector.	2006	0	Billion Btu
PPICP	Pentanes plus consumed by the industrial sector.	2006	0	Thousand barrels
REPRB	Renewable energy production.	2006	21786	Billion Btu
RETCB	Renewable energy total consumption.	2006	47692	Billion Btu
RFACB	Residual fuel oil consumed by the transportation sector.	2006	100537	Billion Btu
RFACD	Residual fuel oil price in the transportation sector.	2006	6	Dollars per million Btu
RFACP	Residual fuel oil consumed by the transportation sector.	2006	15991	Thousand barrels
RFACV	Residual fuel oil expenditures in the transportation sector.	2006	626	Million dollars
RFCCB	Residual fuel oil consumed by the commercial sector.	2006	1362	Billion Btu
RFCCD	Residual fuel oil price in the commercial sector.	2006	8	Dollars per million Btu
RFCCP	Residual fuel oil consumed by the commercial sector.	2006	217	Thousand barrels
RFCCV	Residual fuel oil expenditures in the commercial sector.	2006	11	Million dollars
RFEIB	Residual fuel oil consumed by the electric power sector.	2006	1286	Billion Btu
RFEID	Residual fuel oil price in the electric power sector.	2006	6	Dollars per million Btu
RFEIP	Residual fuel oil consumed by the electric power sector.	2006	205	Thousand barrels
RFEIV	Residual fuel oil expenditures in the electric power sector.	2006	7	Million dollars
RFICB	Residual fuel oil consumed by the industrial sector.	2006	2950	Billion Btu
RFICD	Residual fuel oil price in the industrial sector.	2006	8	Dollars per million Btu

RFICP	Residual fuel oil consumed by the industrial sector	2006	469	Thousand barrels
RFICV	Residual fuel oil expenditures in the industrial sector.	2006	19	Million dollars
RFISB	Residual fuel oil consumed by the industrial sector excluding refinery fuel.	2006	2311	Billion Btu
RFRFB	Residual fuel oil consumed as refinery fuel.	2006	639	Billion Btu
RFTCB	Residual fuel oil total consumption.	2006	106134	Billion Btu
RFTCD	Residual fuel oil average price, all sectors.	2006	6	Dollars per million Btu
RFTCP	Residual fuel oil total consumption.	2006	16882	Thousand barrels
RFTCV	Residual fuel oil total expenditures.	2006	665	Million dollars
RFTXB	Residual fuel oil total end-use consumption.	2006	104848	Billion Btu
RFTXD	Residual fuel oil average price, all end-use sectors.	2006	6	Dollars per million Btu
RFTXP	Residual fuel oil total end-use consumption.	2006	16677	Thousand barrels
RFTXV	Residual fuel oil total end-use expenditures.	2006	657	Million dollars
ROPRB	Renewable energy production, other than fuel ethanol.	2006	21786	Billion Btu
SFCCB	Supplemental gaseous fuels consumed by the commercial sector.	2006	51	Billion Btu
SFEIB	Supplemental gaseous fuels consumed by the electric power sector.	2006	43	Billion Btu
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	2006	22	Billion Btu
SFRCB	Supplemental gaseous fuels consumed by the residential sector.	2006	65	Billion Btu
SFTCB	Supplemental gaseous fuels total consumed.	2006	181	Billion Btu
SGICB	Still gas consumed by the industrial sector.	2006	56933	Billion Btu
SGICP	Still gas consumed by the industrial sector.	2006	9489	Thousand barrels
SNICB	Special naphthas consumed by the industrial sector.	2006	2391	Billion Btu
SNICD	Special naphthas price in the industrial sector.	2006	21	Dollars per million Btu
SNICP	Special naphthas consumed by the industrial sector.	2006	456	Thousand barrels
SNICV	Special naphthas expenditures in the industrial sector.	2006	51	Million dollars
SOCCB	Photovoltaic and solar thermal energy consumed by the commercial sector (except portion include	2006	0	Billion Btu
SOEGB	Photovoltaic and solar thermal energy consumed for electricity generation by the electric power se	2006	0	Billion Btu
SOEGP	Photovoltaic and solar thermal electricity net generation in the electric power sector.	2006	0	Million kilowatthours
SOHCB	Distributed photovoltaic and solar thermal energy consumed by the residential, commercial, and i	2006	1956	Billion Btu
SOICB	Photovoltaic and solar thermal energy consumed by the industrial sector (except portion included	2006	0	Billion Btu
SOTCB	Photovoltaic and solar thermal energy, total consumed.	2006	1956	Billion Btu
SOTXB	Photovoltaic and solar thermal energy, total end-use consumption.	2006	1956	Billion Btu
TEACB	Total energy consumed by the transportation sector.	2006	981437	Billion Btu
TEACD	Total energy average price in the transportation sector.	2006	17	Dollars per million Btu
TEACV	Total energy expenditures in the transportation sector.	2006	17049	Million dollars
TEAPB	Total energy consumption per capita in the transportation sector.	2006	113	Million Btu
TECCB	Total energy consumed by the commercial sector.	2006	617200	Billion Btu
TECCD	Total energy average price in the commercial sector.	2006	22	Dollars per million Btu
TECCV	Total energy expenditures in the commercial sector.	2006	6814	Million dollars
TECPB	Total energy consumption per capita in the commercial sector.	2006	71	Million Btu
TEEIB	Total energy consumed by the electric power sector.	2006	607046	Billion Btu

TEGDS	Energy expenditures as percent of current-dollar GDP.	2006	7	Percent
TEICB	Total energy consumed by the industrial sector.	2006	362815	Billion Btu
TEICD	Total energy average price in the industrial sector.	2006	16	Dollars per million Btu
TEICV	Total energy expenditures in the industrial sector.	2006	2949	Million dollars
TEIPB	Total energy consumption per capita in the industrial sector.	2006	42	Million Btu
TEPFB	Total energy used as process fuel.	2006	726658	Billion Btu
TEPRB	Total energy production.	2006	361631	Billion Btu
TERCB	Total energy consumed by the residential sector.	2006	575076	Billion Btu
TERCD	Total energy average price in the residential sector.	2006	21	Dollars per million Btu
TERCV	Total energy total expenditures in the residential sector.	2006	7524	Million dollars
TERFB	Total energy used as refinery fuel.	2006	96531	Billion Btu
TERPB	Total energy consumption per capita in the residential sector.	2006	66	Million Btu
TETCB	Total energy consumption.	2006	2536527	Billion Btu
TETCD	Total energy average price.	2006	18	Dollars per million Btu
TETCV	Total energy expenditures.	2006	34337	Million dollars
TETGR	Total energy consumed per dollar of real gross domestic product.	2006	5	Thousand Btu per chained (2005) dollar
TETPB	Total energy consumption per capita.	2006	293	Million Btu
TETPV	Total energy expenditures per capita.	2006	3964	Dollars
TETXB	Total end-use energy consumption.	2006	2536528	Billion Btu
TETXD	Total end-use energy average price.	2006	18	Dollars per million Btu
TETXV	Total end-use energy expenditures.	2006	34337	Million dollars
TNACB	Total energy consumed by the transportation sector excluding the sector's share of electrical system energy.	2006	979158	Billion Btu
TNCCB	Total energy consumed by the commercial sector excluding the sector's share of electrical system energy.	2006	308793	Billion Btu
TNICB	Total energy consumed by the industrial sector excluding the sector's share of electrical system energy.	2006	274208	Billion Btu
TNRCB	Total energy consumed by the residential sector excluding the sector's share of electrical system energy.	2006	351251	Billion Btu
TNSCB	Total primary energy and electricity consumed.	2006	1810008	Billion Btu
TNTXB	Total primary energy and electricity consumed by the end-use sectors.	2006	1913410	Billion Btu
TPOPP	Resident population including Armed Forces.	2006	8662	Thousand
UOICB	Unfinished oils consumed by the industrial sector.	2006	2578	Billion Btu
UOICP	Unfinished oils consumed by the industrial sector.	2006	443	Thousand barrels
USICB	Unfractionated streams consumed by the industrial sector.	2006	0	Billion Btu
USICP	Unfractionated streams consumed by the industrial sector.	2006	0	Thousand barrels
WDCCB	Wood consumed by the commercial sector	2006	211	Billion Btu
WDEIB	Wood consumed by the electric power sector.	2006	0	Billion Btu
WDICB	Wood consumed by the industrial sector.	2006	3381	Billion Btu
WDRCB	Wood consumed by the residential sector.	2006	1254	Billion Btu
WDRCD	Wood price in the residential sector.	2006	6	Dollars per million Btu
WDRCP	Wood consumed by the residential sector.	2006	63	Thousand cords
WDRCV	Wood expenditures in the residential sector.	2006	4	Million dollars
WDRSB	Wood consumed in the residential sector at a cost.	2006	760	Billion Btu

WDRXB	Wood consumed in the residential sector at no cost.	2006	494	Billion Btu
WSCCB	Waste consumed by the commercial sector, total.	2006	32	Billion Btu
WSEIB	Waste consumed by the electric power sector.	2006	13537	Billion Btu
WSICB	Waste energy consumed by the industrial sector, total.	2006	684	Billion Btu
WWCCB	Wood and waste consumed in the commercial sector.	2006	243	Billion Btu
WWCCD	Wood and waste price in the commercial sector.	2006	5	Dollars per million Btu
WWCCV	Wood and waste expenditures in the commercial sector.	2006	0	Million dollars
WWCSB	Wood and waste consumed in the commercial sector at a cost.	2006	152	Billion Btu
WWCXB	Wood and waste consumed in the commercial sector at no cost.	2006	90	Billion Btu
WWEIB	Wood and waste consumed by the electric power sector.	2006	13537	Billion Btu
WWEID	Wood and waste price in the electric power sector.	2006	2	Dollars per million Btu
WWEIV	Wood and waste expenditures in the electric power sector.	2006	31	Million dollars
WWICB	Wood and waste consumed in the industrial sector, total.	2006	4064	Billion Btu
WWICD	Wood and waste price in the industrial sector.	2006	1	Dollars per million Btu
WWICV	Wood and waste expenditures in the industrial sector.	2006	1	Million dollars
WWISB	Wood and waste consumed in the industrial sector at a cost.	2006	820	Billion Btu
WWIXB	Wood and waste consumed in the industrial sector at no cost.	2006	3244	Billion Btu
WWTCB	Wood and waste total consumed.	2006	19098	Billion Btu
WWTCD	Wood and waste average price, all sectors.	2006	2	Dollars per million Btu
WWTCV	Wood and waste total expenditures.	2006	38	Million dollars
WWTXB	Wood and waste total end-use consumption.	2006	5561	Billion Btu
WWTXD	Wood and waste average price, all end-use sectors.	2006	4	Dollars per million Btu
WWTXV	Wood and waste total end-use expenditures.	2006	7	Million dollars
WXICB	Waxes consumed by the industrial sector.	2006	660	Billion Btu
WXICD	Waxes price in the industrial sector.	2006	23	Dollars per million Btu
WXICP	Waxes consumed by the industrial sector.	2006	119	Thousand barrels
WXICV	Waxes expenditures in the industrial sector.	2006	15	Million dollars
WYCCB	Wind energy consumed by the commercial sector.	2006	0	Billion Btu
WYCCP	Wind electricity net generation in the commercial sector.	2006	0	Million kilowatthours
WYEGB	Wind energy consumed for electricity generation by the electric power sector.	2006	159	Billion Btu
WYEGP	Wind electricity net generation in the electric power sector.	2006	16	Million kilowatthours
WYICB	Wind energy consumed by the industrial sector.	2006	0	Billion Btu
WYICP	Wind electricity net generation in the industrial sector.	2006	0	Million kilowatthours
WYTCB	Wind energy, total consumed.	2006	159	Billion Btu
WYTCP	Wind electricity, total net generation.	2006	16	Million kilowatthours
WYTXB	Wind energy, total end-use consumption.	2006	0	Billion Btu
WYTXP	Wind energy, total end-use net generation.	2006	0	Million kilowatthours

Tab 4. Other Data

Electricity Supply Mix Data (from PJM)						
Generation Units are in thousands of GATS certificates (each representing a MWhr)						
	2006	PJM Gen	NJ Gen	Non-NJ Gen	Non-NJ %	
Methane		1010.751	0	1010.751	0.001539083	
Coal		412222.221	10725	401497.221	0.611364895	
Natural Gas		36874.074	15587	21287.074	0.032414097	
Hydro		8035.173	34	8001.173	0.012183487	
Nuclear		250833.758	32568	218265.758	0.33235603	
Distillate Fuel Oil		484.531	66.21453483	418.3164652	0.000636976	
Petroleum Coke				0	0	
Residual Fuel Oil		1683.377	115.3588726	1568.018127	0.002387641	
Solar				0	0	
Waste		4084.202	1211.646998	2872.555002	0.004374076	
Wind		831.14	16	815.14	0.001241224	
Wood		986.72		986.72	0.001502491	
Total		717045.947	60323.22041	656722.7266	1	
Note: these percentages are used to compute the fuel mix for electricity imported into NJ (minus the NJ fleet)						

Fuel Use By Vehicle Class							
This information is from: http://cta.ornl.gov/data/chapter2.shtml							

As data about alternative fuel use become available, an attempt is made to incorporate them into this table. Sometimes assumptions must be made in order to use the data. Please see Appendix A for a description of the methodology used to develop these data. See Table 1.17 for transportation petroleum use in thousand barrels per day.

Table 2.5

Domestic Consumption of Transportation Energy by Mode and Fuel Type, 2012^a

(trillion Btu)

	Gasoline	Diesel fuel	Liquefied petroleum gas	Jet fuel	Residual fuel oil	Natural gas	Electricity	Total ^b
<u>HIGHWAY</u>	15,493.3	5,755.4	67.8	-	-	19.4	0.6	21,336.6
Light vehicles	14,904.2	408.5	48.5			-	^c	15,361.2
Cars	7,080.5	40.2						7,120.6
Light trucks ^d	7,762.6	368.4	48.5					8,179.4
Motorcycles	61.1							61.1
Buses	8.7	171.1	-			19.4	0.6	199.8
Transit	1.6	68.0	-			19.4	0.6	89.7
Intercity		31.9						31.9
School	7.1	71.2						78.3
Medium/heavy trucks	580.4	5,175.8	19.3	-	-	-	-	5,775.5
Class 3-6 trucks	534.0	724.6	19.1					1,277.7
Class 7-8 trucks	46.4	4,451.2	0.2					4,497.8
<u>NONHIGHWAY</u>	222.0	831.7	-	2,064.5	686.8	750.7	318.2	4,874.0
Air	27.4	-	-	2,064.5	-	-	-	2,091.9
General aviation	27.4			201.4				228.8
Domestic air carriers				1,418.9				1,418.9
International air carriers ^e				444.2				444.2
Water	194.7	305.9			686.8			1,187.4
Freight		255.8			686.8			942.6
Recreational	194.7	50.1						244.8
Pipeline	-	-	-	-	-	750.7	246.2	997.0
Rail	-	525.9	-	-	-	-	72.0	597.8
Freight (Class I)		504.0						504.0
Passenger		21.8					72.0	93.8
Transit		-					47.6	47.6
Commuter		13.0					18.7	31.7
Intercity		8.7					5.7	14.4
TOTAL HWY & NONHWY^b	15,715.3	6,587.1	67.8	2,064.5	686.8	770.2	318.8	26,210.6

	Gas	Diesel	NG	
light	0.948388	0.062015		0
heavy	0.037486	0.811723		1
ships	0.012389	0.046439		
rail	0	0.079838		
air	0.001744	0		Source:
	1.000006	1.000015		See Appendix A for Energy Use Sources.

^a Civilian consumption only. Totals may not include all possible uses of fuels for transportation (e.g., snowmobiles).						
^b Totals may not sum due to rounding.						
^c Data on electricity of light vehicles are not available						
^d Two-axle, four-tire trucks.						
^e One half of fuel used by domestic carriers in international operation.						

NJ In-State Electricity Generation By Fuel Type			
The following EIA data is used to quantify NJ electricity generation by fuel type			

Table 5. Electric Power Industry Generation by Primary Energy Source, 1990-2012
New Jersey

megawatthours

Item	2012	2011	2010	2009	2008	2007	2006	1990
Total Electric Industry	65,263,408	64,694,096	65,682,494	61,811,239	63,674,789	62,671,245	60,700,139	39,968,833
Coal	1,897,475	4,155,097	6,417,891	5,099,868	9,028,491	10,210,670	10,861,925	7,057,820
Hydroelectric	10,755	24,407	18,119	32,081	25,773	20,909	35,436	31,351
Natural Gas	28,284,904	25,201,075	24,902,230	20,624,990	20,751,755	18,752,332	15,668,374	6,914,325
Nuclear	33,110,224	33,606,447	32,771,305	34,327,954	32,194,798	32,010,376	32,567,885	23,770,387
Other	632,551	643,573	575,255	520,308	559,390	488,994	568,551	0
Other Biomass	964,821	876,111	816,317	928,206	881,736	823,166	900,792	246,058
Other Gas	142,181	139,175	106,333	169,635	158,826	160,549	110,265	0
Petroleum	70,779	165,588	235,079	278,286	325,312	452,771	269,519	2,094,968
Pumped Storage	-166,176	-196,778	-193,772	-201,714	-274,845	-268,934	-298,601	-149,547
Solar	304,326	68,878	21,084	10,707	2,669	0	0	0
Wind	11,568	10,523	12,653	20,918	20,885	20,412	15,991	0
Wood	0	0	0	0	0	0	0	3,471

Other biomass includes agricultural byproducts, landfill gas, biogenic municipal solid waste, other biomass (solid, liquid and gas) and sludge waste.

Other gases includes blast furnace gas, and other manufactured and waste gases derived from fossil fuels.

Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels, waste heat and miscellaneous technologies.

Note: Totals may not equal sum of components because of independent rounding.

The following "intermediate calculation" consolidates the EIA data noted above into structure used by the model.

	2006					
	Primary Suppl	Generation	Generation	Efficiency		
	B-BTUs	MWHrs	B-BTUs	%		
Coal	115,922	10,861,925	37,062	31.97%		
Hydroelectric	338	35,436	121	35.77%		
Natural Gas & Other Gas	135,265	15,778,639	53,839	39.80%		
Nuclear	339,846	32,567,885	111,126	32.70%		
Other (MSW)	13,537	568,551	1,940	14.33%		
Other Biomass & LFG	10,245	900,792	3,074	30.00%		
Petroleum	2,023	269,519	920	45.46%		
Total:	617,176	60,982,747	208,082	33.72%		

Note: Combine "Natural Gas" and "Other Gases" into "Natural Gas & Other Gases"

Note: For NJ, "Other" means Municipal Solid Waste as fuel for generation.

Note: Other Biomass includes Landfill Gas, and is probably dominated by LFG today

Note: Ignore pumped hydro

Note: Ignore solar and wind data, use local NJ (CEP) and PJM data instead

Note: Primary supply for "Biomass and LFG" unknown, so compute input based on generation using an assumed 30% efficiency

NJ Solar Capacity By Year, from NJ CEP Solar Installation Reports, All capacity prior to Sept 2009 is Behind-The-Meter (not grid supply)

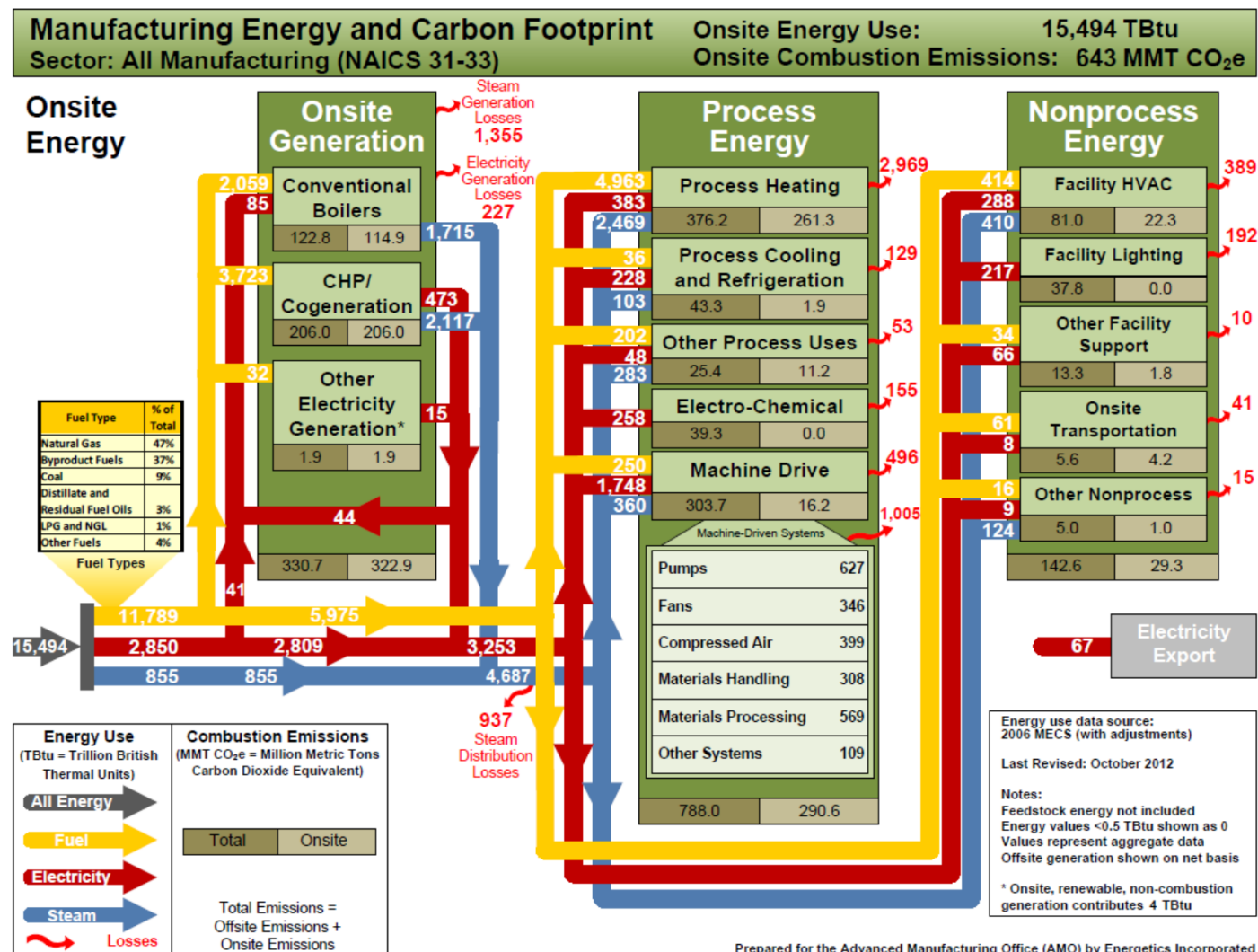
New Jersey Solar Installations by Year As of 02/28/15

Year	Projects <= 10 kW			Projects > 10 kW			All Projects		
	# Projects	Total kW	Total Rebate \$	# Projects	Total kW	Total Rebate \$	# Projects	Total kW	Total Rebate \$
2001	3	7.5	\$ 37,145	-	-	\$ -	3	7.5	\$ 37,145
2002	30	97.9	\$ 481,790	7	525.6	\$ 1,942,904	37	623.5	\$ 2,424,694
2003	88	464.3	\$ 2,487,131	7	712.3	\$ 2,836,280	95	1,176.6	\$ 5,323,411
2004	269	1,542.3	\$ 8,445,046	20	475.2	\$ 2,136,929	289	2,017.5	\$ 10,581,975
2005	593	3,981.3	\$ 21,631,077	136	5,901.0	\$ 24,604,819	729	9,882.3	\$ 46,235,897
2006	717	4,689.9	\$ 24,259,420	150	13,622.8	\$ 53,827,366	867	18,312.7	\$ 78,086,786
2007	586	4,143.8	\$ 19,388,536	107	11,111.3	\$ 38,733,850	693	15,255.1	\$ 58,122,386
2008	643	4,413.6	\$ 18,134,721	190	18,297.6	\$ 26,788,695	833	22,711.3	\$ 44,923,416
2009	976	6,941.1	\$ 17,647,733	373	50,313.2	\$ 38,378,530	1,349	57,254.3	\$ 56,026,262
2010	2,231	15,535.5	\$ 20,150,610	900	116,847.9	\$ 25,810,580	3,131	132,383.4	\$ 45,961,190
2011	3,780	25,516.1	\$ 5,519,762	1,617	279,682.9	\$ 7,863,985	5,397	305,199.0	\$ 13,383,747
2012	3,943	25,789.4	\$ 1,094,005	1,959	391,555.0	\$ 1,295,752	5,902	417,344.4	\$ 2,389,758
2013	4,817	30,509.4	\$ 4,691	1,722	171,737.5	\$ -	6,539	202,246.9	\$ 4,691
2014	4,900	31,158.0	\$ -	1,622	216,275.5	\$ -	6,522	247,433.5	\$ -
2015	1,187	7,649.7	\$ -	354	17,072.0	\$ -	1,541	24,721.8	\$ -
Total	24,763	162,440.0	\$ 139,281,668	9,164	1,294,129.7	\$ 224,219,690	33,927	1,456,569.7	\$ 363,501,358

Total* = Program to date totals for Paid projects plus projects pending payment; preliminary results subject to true-up based upon inspection results.

2006 Industry Energy Use Profile (from DOE MECS profile for 2006).

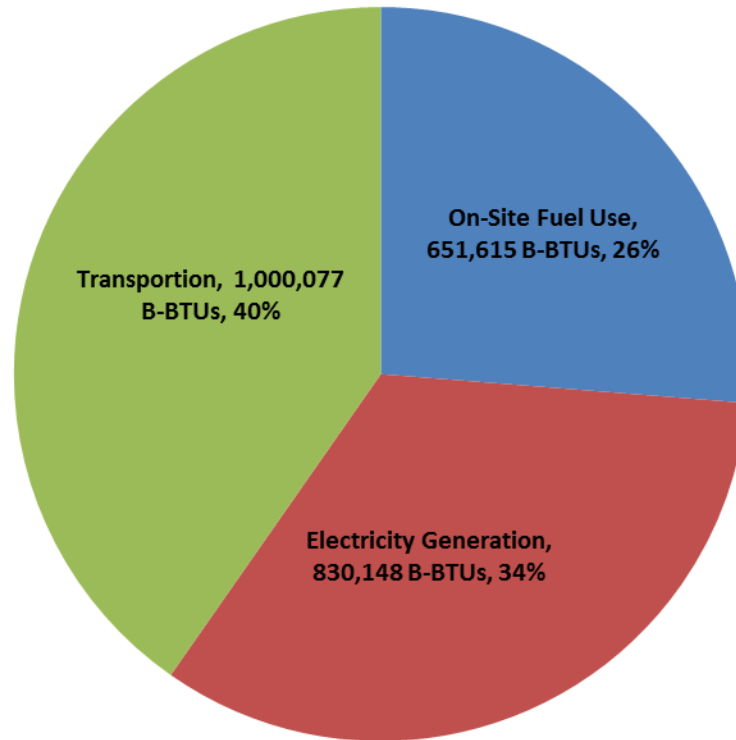
Note: these numbers are for national industry, but used as an analog for NJ



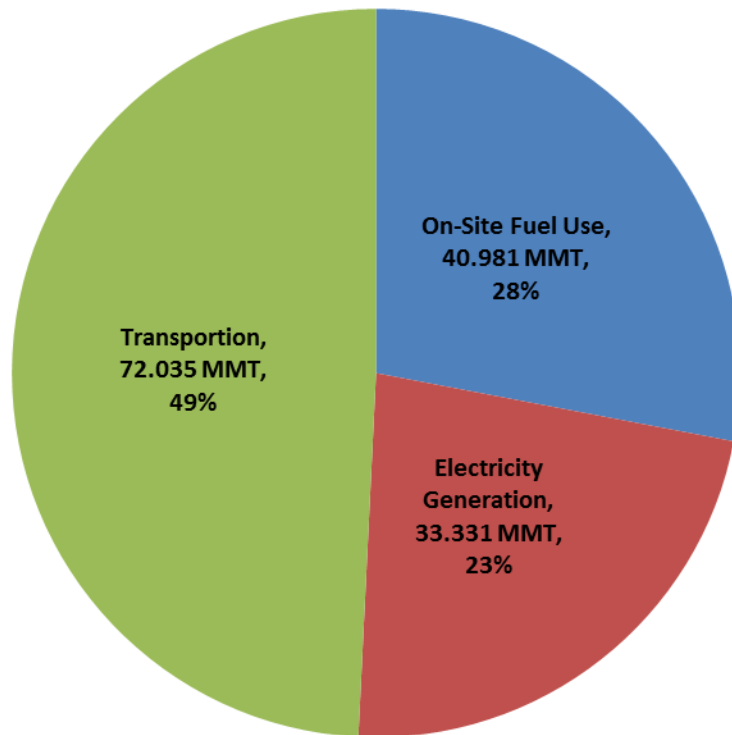
Tab 5. Summary Charts

Primary Energy Use By Major Segment		
	Primary Supply	Units
On-Site Fuel Use	651,615	B-BTUs
Electricity Generation	830,148	B-BTUs
Transportation	1,000,077	B-BTUs
Total NJ Energy Use (2006):	2,481,840	
Energy-Related CO2 Emissions By Major Segment		
	Co2-Emissions	Units
On-Site Fuel Use	40.981	MMT
Electricity Generation	33.331	MMT
Transportation	72.035	MMT
Total NJ Energy-Related CO2 Emissions (2006):	146.346	MMT

NJ Primary Energy Use (2006)
(2,481,840 B-BTUs)



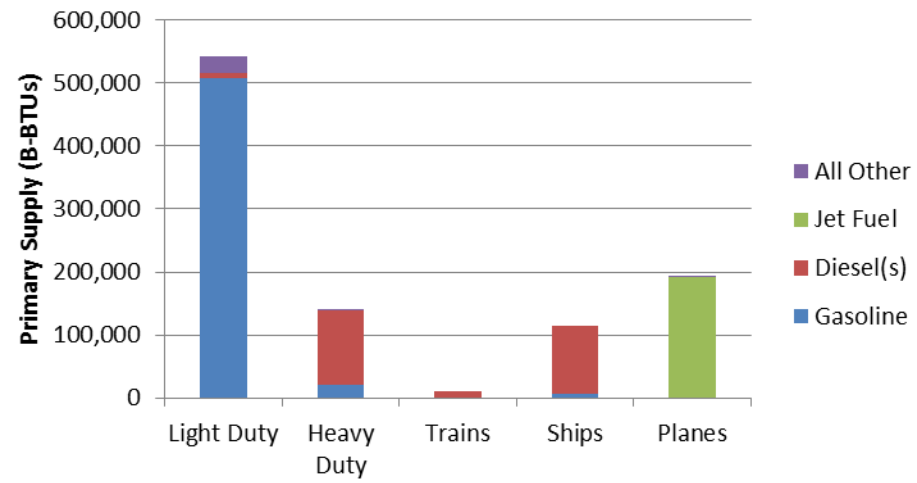
NJ Energy-Related CO2 Emissions (2006 - 146.346 MMT)



Primary Energy Use By Sub-Segment		
	Primary Supply	Units
Residential On-Site Fuel Use	251,698	B-BTUs
Commercial On-Site Fuel Use	174,300	B-BTUs
Industrial On-Site Fuel Use	225,617	B-BTUs
Residential Electricity Use (primary supply)	298,191	B-BTUs
Commercial Electricity Use (primary supply)	410,876	B-BTUs
Industrial Electricity Use (primary supply)	118,046	B-BTUs
Transportation Electricity Use (primary supply)	3,035	B-BTUs
Transportation - LD Vehicle Fuel Use	541,504	B-BTUs
Transportation - HD Vehicle Fuel Use	140,336	B-BTUs
Transportation - Train Fuel Use	11,684	B-BTUs
Transportation - Ship Fuel Use	113,954	B-BTUs
Transportation - Plane Fuel Use	192,601	B-BTUs
Total NJ Energy Use (2006):	2,481,840	B-BTUs
Energy-Related CO2 Emissions By Sub-Segment		
	CO2 Emissions	Units
Residential On-Site Fuel Use	14.317	MMT
Commercial On-Site Fuel Use	9.591	MMT
Industrial On-Site Fuel Use	17.074	MMT
Residential Electricity Use (primary supply)	11.972	MMT
Commercial Electricity Use (primary supply)	16.497	MMT
Industrial Electricity Use (primary supply)	4.740	MMT
Transportation Electricity Use (primary supply)	0.122	MMT
Transportation - LD Vehicle Fuel Use	38.362	MMT
Transportation - HD Vehicle Fuel Use	10.224	MMT
Transportation - Train Fuel Use	0.857	MMT
Transportation - Ship Fuel Use	8.909	MMT
Transportation - Plane Fuel Use	13.683	MMT
Total NJ Energy-Related CO2 Emissions (2006):	146.346	MMT

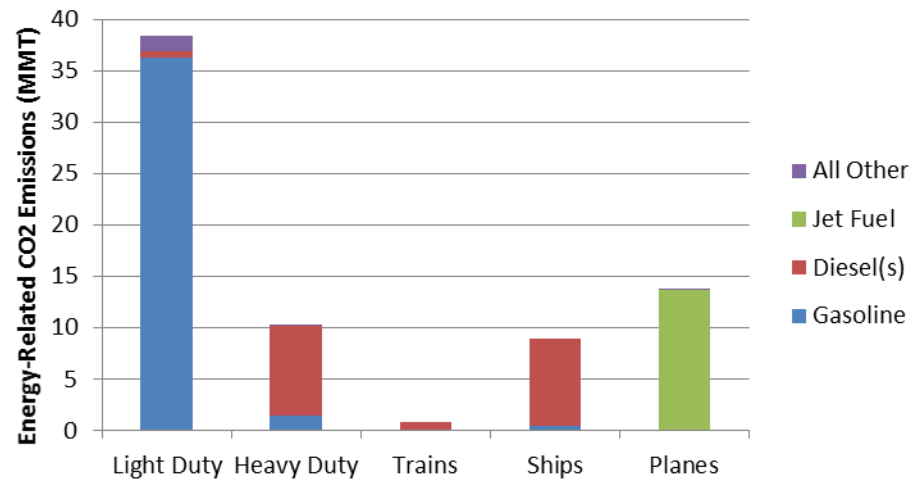
Primary Supply Consumption: By Supply Type And End-Use (B-BTUs)									
On-Site Fuel Use	NatGas	Fuel Oil	Petrol	All Others	Total				
Residential	204,354	41,236	0	6,108	251,698				
Commercial	158,029	13,550	0	2,721	174,300				
Industrial	68,012	14,355	128,194	15,056	225,617				
Total:	430,395	69,141	128,194	23,885	651,615				
Electricity Generation	Nuclear	NatGas	Fuel Oil	Coal	W&W&B	Grid S&W&H	Dist. Solar	Imported	Total
Residential	122,073	48,587	727	41,639	8,543	121	88	76,379	298,158
Commercial	168,204	66,948	1,001	57,375	11,771	167	249	105,242	410,958
Industrial	48,326	19,235	288	16,484	3,382	48	0	30,237	117,999
Transportation	1,243	495	7	424	87	1	0	777	3,034
Total:	339,846	135,265	2,023	115,922	23,782	338	337	212,635	830,148
Transportation	Gasoline	Diesel(s)	Jet Fuel	All Other	Total				
Light Duty	506,814	9,075	0	25,615	541,504				
Heavy Duty	20,032	118,788	0	1,515	140,336				
Trains	0	11,684	0	0	11,684				
Ships	6,621	107,333	0	0	113,954				
Planes	932	0	191,224	445	192,601				
Total:	534,399	246,880	191,224	27,575	1,000,077				

Transportation

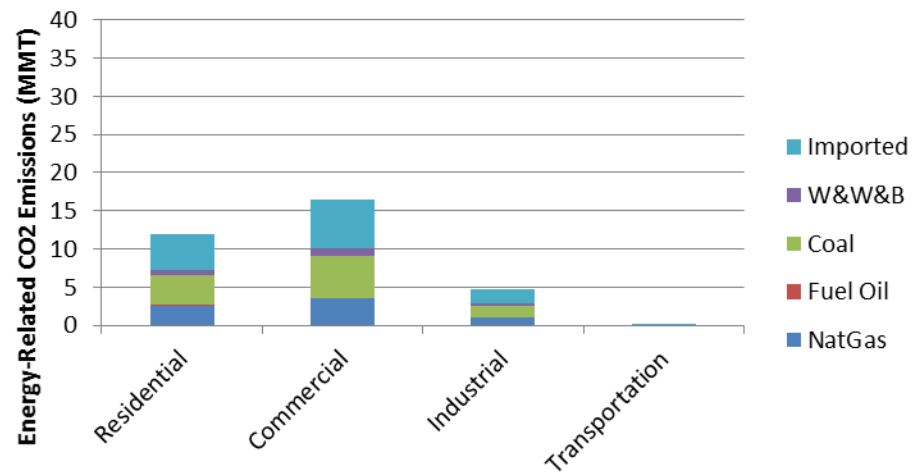


Energy Related CO2 Emissions: By Supply Type And End-Use (MMT)									
On-Site Fuel Use	NatGas	Fuel Oil	Misc. Petrol	All Others	Total				
Residential	10.868	3.023	0.000	0.425	14.317				
Commercial	8.404	0.993	0.000	0.193	9.591				
Industrial	3.617	1.052	11.223	1.181	17.074				
Total:	22.889	5.069	11.223	1.800	40.981				
Electricity Generation	Nuclear	NatGas	Fuel Oil	Coal	W&W&B	Imported	Grid S&W&H	Dist. Solar	Total
Residential	0.000	2.584	0.053	3.978	0.697	4.659	0.000	0.000	11.972
Commercial	0.000	3.560	0.073	5.482	0.961	6.420	0.000	0.000	16.497
Industrial	0.000	1.023	0.021	1.575	0.276	1.845	0.000	0.000	4.740
Transportation	0.000	0.026	0.001	0.040	0.007	0.047	0.000	0.000	0.122
Total:	0.000	7.194	0.148	11.076	1.941	12.971	0.000	0.000	33.331
Transportation	Gasoline	Diesel(s)	Jet Fuel	All Other	Total				
Light Duty	36.214	0.665	0.000	1.483	38.362				
Heavy Duty	1.431	8.709	0.000	0.083	10.224				
Trains	0.000	0.857	0.000	0.000	0.857				
Ships	0.473	8.436	0.000	0.000	8.909				
Planes	0.067	0.000	13.586	0.031	13.683				
Total:	38.185	18.667	13.586	1.597	72.035				

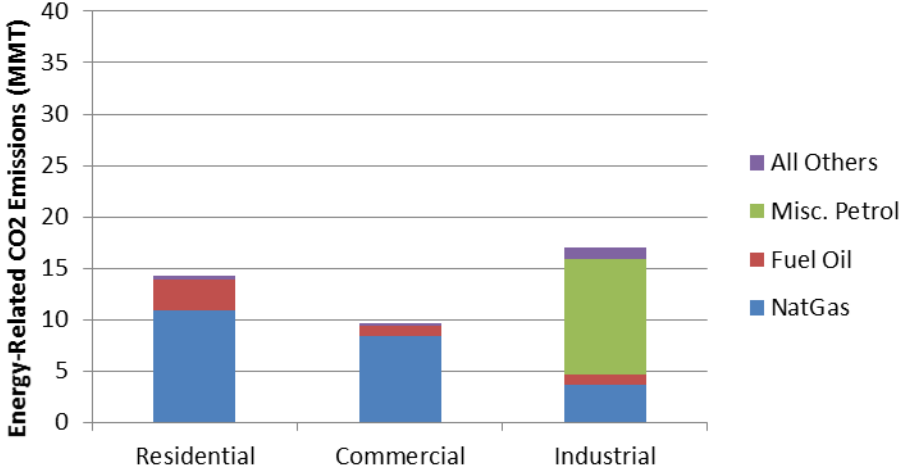
Transportation Emissions



Electricity Generation Emissions



On-Site Fuel Emissions



Tab 6. Top 10

Baseline Year: New Jersey 2006			
Fuel Type and End-Use Segment	MMT	%	Cum-%
Use of gasoline in light duty vehicles	36.214	24.7%	24.7%
On-site use of fuel oil and natural gas in the residential sector	13.891	9.5%	34.2%
Use of jet fuel in planes departing NJ	13.586	9.3%	43.5%
Imported Electricity (from PJM)	12.971	8.9%	52.4%
On-site use of natural gas in the commercial & industrial sectors	12.021	8.2%	60.6%
Use of miscellaneous petroleum by industry (process)	11.223	7.7%	68.3%
Use of coal for in-state electricity generation (all sectors)	11.076	7.6%	75.8%
Use of diesel in heavy duty vehicles	8.709	6.0%	81.8%
Use of diesel(s) in ships departing NJ	8.436	5.8%	87.6%
Use of natural gas & fuel oil for electricity generation (all sectors)	7.342	5.0%	92.6%
Total:	135.470	92.6%	

Tab 7. Notes

Model Outputs (matching visual rendering)
Data Code Format: X-Y-ZZ
Where X = flow point (P = primary, D = delivered, c = consumed energy)
Where Y = end use segment (E=electricity, A = all, R = residential, C = commercial, I = industrial, L = light duty vehicles, H = heavy duty vehicles, T = trains, S = ships, P = planes, V=all Vehicles)
Where ZZ = energy type
GS = GRID SOLAR
GW = GRID WIND
LH = LARGE HYDRO
CW = CENTRAL WOOD/WASTE
NU = NUCLEAR
FO = FUEL OIL (STATIONARY)
CL = COAL
NG = NATURAL GAS
BF = LIQUED BIO-FUEL
LP = LIQUID PROPANE
KE = KEROSENE
MG = MOTOR GASOLINE
VD = VEHICLE DIESEL
MD = MARINE DIESEL
JF = JET FUEL (KEROSENE)
AG = AVIATION GASOLINE
MP = Pet coke, still gas, other pet.
DW = DIST. WOOD/WASTE
GT = DIST. GEOTHERMAL
DS = DISTRIBUTED SOLAR