

Chapter 3

Data

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Chapter 3

Data

Energy demand projections up to 2040 were implemented applying the econometrics approach wherever possible. Energy demand projections up to 2040 applied historical correlations of final energy consumption and economic activity from 2000 to 2016. Historical data consisted of energy data, socio-economic data, and energy price.

1. Energy Data

Historical energy demand data were taken from the Myanmar Energy Balance Table 2000–2016 (MOEE, 2019). The Oil and Gas Planning Department (OGPD), Ministry of Electricity and Energy (MOEE) compiled national energy statistics, which consisted of oil and gas data from the OGPD, and coal, electricity, and renewable energy data from other departments in the MOEE. Indigenous energy resources cover coal, oil, natural gas, hydropower, and biomass.

Table 3.1 shows historical energy data from 2000 to 2016 and Table is the energy balance table of 2016, which was used as the base year for the energy outlook.

For transport, final energy consumption was broken down into domestic aviation and road transport. In road transport, final consumption included consumption of other petroleum products, which were lubricants used in the vehicles.

Table 3.1. Myanmar Energy Data, 2000–2016 (ktoe)

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
International Aviation Bunkers	Jet Fuel	-18.0	-17.9	-14.9	-12.5	-16.8	-11.5	-14.0	-12.9	-12.9	-12.7	-18.8	-26.8	-35.6	-77.7	-83.5	-41.5	-88.7	
	Total	-18.0	-17.9	-14.9	-12.5	-16.8	-11.5	-14.0	-12.9	-12.9	-12.7	-18.8	-26.8	-35.6	-77.7	-83.5	-41.5	-88.7	
Total Final Energy Consumption	Hard Coal	59.9	45.9	54.3	84.9	46.7	98.8	131.4	187.7	144.2	102.2	181.8	166.9	170.8	168.1	289.8	266.5	407.3	
	Briquette	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.1	
	Motor Gasoline	353.9	285.3	300.6	380.3	343.6	323.2	339.9	326.0	333.9	380.9	369.9	467.6	495.7	477.5	783.7	1124.7	1331.2	
	Jet Fuel	47.4	52.4	60.8	69.9	56.4	54.8	57.4	55.9	49.7	51.8	59.8	74.1	73.1	47.2	55.7	97.3	127.7	
	Gas/Diesel Oil	1087.7	870.4	1006.4	993.8	863.2	918.5	1103.9	1125.2	822.8	597.5	1779.5	1348.5	1202.7	1420.0	1882.4	3165.9	2183.5	
	Fuel Oil	47.2	41.5	116.9	139.7	115.0	107.8	100.4	90.7	88.4	72.5	60.8	65.9	63.5	52.7	47.9	46.9	79.8	
	LPG	16.3	16.8	17.0	16.6	12.9	16.8	12.8	9.2	9.2	7.5	11.7	18.1	16.3	26.8	30.8	35.0	49.9	
	Other Petroleum Products	46.4	38.0	34.2	25.8	18.1	17.5	17.8	18.3	20.9	16.0	19.6	92.1	122.7	195.1	309.3	290.6	432.1	
	Natural Gas	397.8	250.2	352.7	339.8	390.6	298.2	545.0	636.8	750.9	620.9	674.6	836.4	572.6	654.2	573.3	498.2	429.7	
	Electricity	281.0	261.5	299.6	331.1	336.2	374.3	374.5	381.7	404.3	429.4	542.8	662.2	710.2	827.1	969.6	1153.1	1321.4	
	Biomass	6846.1	6975.6	7113.9	7218.9	7418.9	7556.9	7781.0	8038.6	8287.7	8543.3	8757.9	9379.5	9457.0	9192.7	9830.2	8917.6	8927.6	
	Total	9183.7	8837.5	9356.4	9600.8	9601.6	9766.9	10464.0	10870.1	10912.0	10821.9	12458.3	13111.4	12884.7	13061.4	14773.4	15597.4	15292.3	
Industry Sector	Industry Sector (Total)	Coal	59.9	45.9	54.3	84.9	46.7	98.8	131.4	187.7	144.2	102.2	181.8	166.9	170.8	168.1	289.8	266.5	407.3
		Petroleum Products	628.9	512.8	639.2	597.2	548.1	625.5	780.8	817.2	552.9	480.0	1003.8	818.3	1094.2	1261.3	1782.4	2790.9	2037.3
		Gas/Diesel Oil	562.3	450.0	521.3	468.8	445.8	528.6	689.1	731.3	467.4	411.3	940.8	700.4	951.3	1102.7	1524.8	2593.7	1754.4
		Fuel Oil	35.6	31.3	88.2	105.5	86.8	81.4	75.7	68.4	66.7	54.7	45.8	49.8	48.0	39.8	36.1	35.4	60.2
		Others	31.0	31.5	29.7	22.9	15.5	15.6	15.9	17.5	18.8	14.0	17.1	68.1	95.0	118.8	221.4	161.8	222.7
		Natural Gas	396.0	248.4	351.0	338.0	386.9	262.8	462.5	518.5	603.3	457.1	501.6	660.3	392.8	475.2	391.4	330.3	264.9
		Biomass	2053.8	2092.7	2134.2	2165.7	2225.7	2267.1	2334.3	2411.6	2486.3	2563.0	2627.2	2784.9	2795.3	2704.2	2886.0	2624.3	2633.1
		Electricity	111.4	98.7	121.9	135.6	133.2	151.1	159.4	161.0	163.8	159.1	196.7	233.1	331.0	349.2	453.7	354.4	400.0
Total	3250.0	2998.4	3300.5	3321.4	3340.6	3405.3	3868.4	4096.0	3950.4	3761.3	4511.1	4663.6	4784.1	4958.1	5803.3	6366.4	5742.6		
Transport Sector	Transport Sector (Total)	Petroleum Products	929.5	761.3	847.8	975.2	817.4	767.9	812.0	775.8	738.9	618.9	1268.3	1212.1	847.4	881.3	1254.3	1891.5	2065.3
		Motor Gasoline	353.9	285.1	300.6	380.3	343.6	323.2	339.9	326.0	333.9	380.8	369.8	467.5	495.7	477.5	783.6	1124.6	1331.1
		Jet Fuel	47.4	52.4	60.8	69.9	56.4	54.8	57.4	55.9	49.7	51.8	59.8	74.1	73.1	47.2	55.7	97.3	127.7
		Gas/Diesel Oil	525.4	420.4	485.1	525.0	417.4	389.9	414.8	393.9	355.4	186.2	838.7	648.0	251.4	317.3	357.6	572.2	429.1

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
	Other Petroleum Products	3.0	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	27.1	39.3	57.4	97.5	177.4		
		Natural Gas	1.8	1.8	1.7	1.8	3.7	35.4	82.5	118.3	147.6	163.8	173.0	176.1	165.3	178.3	181.2	167.3	164.4	
		Total	931.4	763.1	849.5	977.0	821.1	803.3	894.5	894.1	886.5	782.6	1441.3	1388.2	1012.7	1059.6	1435.5	2058.9	2229.7	
	Domestic Air Transport	Petroleum Products	47.4	52.4	60.8	69.9	56.4	54.8	57.4	55.9	49.7	51.8	59.8	74.1	73.1	47.2	55.7	97.3	127.7	
		Jet Fuel	47.4	52.4	60.8	69.9	56.4	54.8	57.4	55.9	49.7	51.8	59.8	74.1	73.1	47.2	55.7	97.3	127.7	
		Total	47.4	52.4	60.8	69.9	56.4	54.8	57.4	55.9	49.7	51.8	59.8	74.1	73.1	47.2	55.7	97.3	127.7	
	Road	Petroleum Products	882.2	708.9	787.1	905.3	761.0	713.1	721.0	687.8	655.3	531.1	1172.0	1099.8	738.2	797.5	1161.2	1757.6	1902.1	
		Motor Gasoline	353.9	285.1	300.6	380.3	343.6	323.2	339.9	326.0	333.9	380.8	369.8	467.5	495.7	477.5	783.6	1124.6	1331.1	
		Gas/Diesel Oil	525.4	420.4	485.1	525.0	417.4	389.9	381.2	361.9	321.4	150.2	802.2	609.8	215.4	280.7	320.2	535.6	393.5	
		Other Petroleum Products	3.0	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	27.1	39.3	57.4	97.5	177.4	
		Natural Gas	1.8	1.8	1.7	1.8	3.7	35.4	82.5	118.3	147.6	163.8	173.0	176.1	165.3	178.3	181.2	167.3	164.4	
		Total	884.0	710.7	788.7	907.1	764.7	748.5	803.6	806.1	802.9	694.9	1345.0	1275.8	903.5	975.8	1342.4	1925.0	2066.5	
	Rail	Diesel	0.0	0.0	0.0	0.0	0.0	0.0	33.6	32.0	33.9	36.0	36.5	38.3	36.1	36.6	37.4	36.6	35.5	
		Total	0.0	0.0	0.0	0.0	0.0	0.0	33.6	32.0	33.9	36.0	36.5	38.3	36.1	36.6	37.4	36.6	35.5	
	Other Sector	Other Sector (Total)	Fuel Oil	11.6	10.2	28.7	34.3	28.2	26.5	24.6	22.2	21.7	17.8	14.9	16.2	15.6	12.9	11.8	11.5	19.6
			LPG	16.3	16.8	17.0	16.6	12.9	16.8	12.8	9.2	9.2	7.5	11.7	18.1	16.3	26.8	30.8	35.0	49.9
Other Petroleum Products			12.5	3.2	3.2	2.9	2.6	1.9	1.9	0.9	2.2	2.0	2.5	1.6	0.6	37.0	30.5	31.5	32.1	
Natural Gas			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.6	0.7	0.5	0.4	
Biomass			4792.3	4882.9	4979.8	5053.2	5193.2	5289.8	5446.7	5627.0	5801.4	5980.3	6130.7	6594.6	6661.7	6488.5	6944.2	6293.3	6294.5	
Electricity			169.6	162.8	177.8	195.5	203.0	223.3	215.1	220.7	240.5	270.4	346.2	429.1	379.2	477.8	515.9	798.7	921.4	
Total		5002.3	5075.9	5206.4	5302.4	5439.9	5558.3	5701.1	5880.1	6075.0	6278.0	6506.0	7059.6	7088.0	7043.7	7533.8	7170.6	7317.9		
Commerce & Public Services		Fuel Oil	11.6	10.2	28.7	34.3	28.2	26.5	24.6	22.2	21.7	17.8	14.9	16.2	15.6	12.9	11.8	11.5	19.6	
		Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.6	0.7	0.5	0.4	
		Biomass	2053.8	2092.7	2134.2	2165.7	2225.7	2267.1	2334.3	2411.6	2486.3	2563.0	2627.2	2784.9	2795.3	2704.2	2886.0	2624.3	2633.1	
		Electricity	45.3	48.5	47.5	49.7	52.7	59.8	71.1	74.3	81.3	92.1	112.3	131.7	141.3	145.5	150.9	215.5	260.0	
		Total	2110.7	2151.3	2210.3	2249.7	2306.6	2353.3	2430.0	2508.1	2589.3	2672.9	2754.5	2932.8	2966.6	2863.3	3049.3	2863.7	2927.6	
Residential		Briquette	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.1	
		LPG	16.3	16.8	17.0	16.6	12.9	16.8	12.8	9.2	9.2	7.5	11.7	18.1	16.3	26.8	30.8	23.2	35.5	
		Biomass	2738.4	2790.2	2845.6	2887.5	2967.5	3022.8	3112.4	3215.5	3315.1	3417.3	3503.5	3809.7	3866.5	3784.4	4058.2	3669.1	3661.3	

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
	Electricity	117.0	107.0	123.1	138.6	143.0	155.8	138.8	141.6	154.7	173.3	228.2	290.5	230.6	323.7	353.7	574.0	651.2
		2871.8	2914.1	2985.7	3042.8	3123.4	3195.4	3264.0	3366.3	3479.0	3598.2	3743.4	4118.3	4113.4	4134.9	4443.5	4444.2	4444.8
	Other Petroleum Products	12.5	3.2	3.2	2.9	2.6	1.9	1.9	0.9	2.2	2.0	2.5	1.6	0.6	37.0	30.5	31.5	32.1
	Electricity	7.3	7.3	7.2	7.1	7.3	7.6	5.2	4.8	4.6	4.9	5.6	6.9	7.4	8.6	11.3	9.2	10.1
	Total	19.8	10.5	10.4	10.0	9.9	9.6	7.1	5.6	6.8	6.9	8.2	8.5	8.0	45.6	41.8	40.7	42.2

ktoe = thousand tons of oil equivalent, intl= international, LPG = liquefied petroleum gas, OOP = other petroleum product.

Source: Ministry of Electricity and Energy (2019).

Table 3.2. Myanmar Energy Balance Table, 2016 (ktoe)

	1.	3.	4.	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.9	4.10	5.	6.	8.	9.	10.	12.
	Coal	Crude Oil & NGL	Petroleum Products	Motor Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil	Fuel Oil	LPG	Ethane	Other Petroleum Products	Gas	Hydro	Geothermal, Solar etc.	Others	Electricity	Total
1. Indigenous Production	209	607	11		4					7			16,466	1,043	1	9,069		27,406
2. Imports	208		3,966	1,154		201		2,151		35		424						4,174
3. Exports	-4	-146	-173					-173					-12,834				-205	-13,361
4. International Marine Bunkers			-1					-1										-1
13.1 International Aviation Bunkers			-89			-89												-89
5. Stock Changes		0	357	265	0	2		84	4	3		-2	-1					355
6. Total Primary Energy Supply	414	461	4,070	1,419	4	115		2,060	4	46		422	3,631	1,043	1	9,069	-205	18,484
7. Transfers				4	-4													
8. Total Transformation Sector	-7	-418	400	153		16	0	136	75	5		14	-2,747	-1,043	-1	-141	1,742	-2,213
8.1 Main Activity Producer	-5		-19					-19					-2,730	-1,043	-1		1,742	-2,056
8.4 Refineries		-418	419	153		16	0	155	75	5		14						0
8.5 Coal Transformation	-2																	0
9. Loss & Own Use			-5									-5	-431					-652
10. Discrepancy	0	-43	-261	-245	0	-3		-13	0	-1		0	-23					0
11. Total Final Energy Consumptions	407		4,204	1,331		128	0	2,183	80	50		432	430			8,928	1,321	15,292
12. Industry Sector	407		2,037					1,754	60			223	265			2,633	400	5,743
12.1 Iron and Steel	37												7					44
12.2 Chemical (incl. Petro-Chemical)													117					117
12.3 Non Ferrous Metals													2					2
12.4 Non Metallic Mineral Products	123												119					242
12.5 Transportation Equipment													0					0
12.6 Machinery													5					5
12.8 Food, Beverages and Tobacco													6					6
12.9 Pulp, Paper and Printing													0					0
12.1 Construction			215									215						215
12.1 Textiles and Leather													8					8
12.1 Non-specified Industry	247		1,823					1,754	60			8	2			2,633	400	5,104
13. Transport Sector			2,065	1,331		128		429				177	164					2,230
13.2 Domestic Air Transport			128			128												128
13.3 Road			1,902	1,331				394				177	164					2,066
13.4 Rail			36					36										36
14. Other Sector			102	0			0		20	50		32	0			6,294	921	7,320
14.1 Residential & Commercial			70						20	50			0			6,294	911	7,278
14.1.1 Commerce and Public Services			34						20	14			0			2,633	260	2,928
14.1.2 Residential			35							35						3,661	651	4,350
14.4 Non-specified Others			32	0			0					32					10	42
15. of which Non-Energy Use			424									424	105					529
16. Electricity Output in GWh	10	61											8,052	12,125	9	0		20,258

GWh = gigawatt hour, ktoe = thousand tons of oil equivalent, LPG = liquefied petroleum gas.
Source: Ministry of Electricity and Energy (2019).

In estimating the aviation fuel demand function, aviation fuel consumption is defined as domestic demand plus international aviation bunkers (aviation fuel for international flights). The international aviation bunkers in the energy balance table were reported as part of total primary energy supply and the absolute value was used in the summation.

'Others' are the commercial, services, residential, and agriculture sectors. Demand function was estimated for fuels consumed in each.

2. Macroeconomic Data

The economic indicators used in the energy outlook modelling were taken from the World Bank's World Development Indicators (World Bank, 2018): gross domestic product (GDP), major sectors gross value-added, GDP deflator, consumer price index (CPI), official exchange rate, total population, urban and rural population, and population in the largest city (Table 3.3).

Other economic indicators were used to estimate the final energy demand equation, but these data were obtained from national statistics.

3. International Crude Oil Price

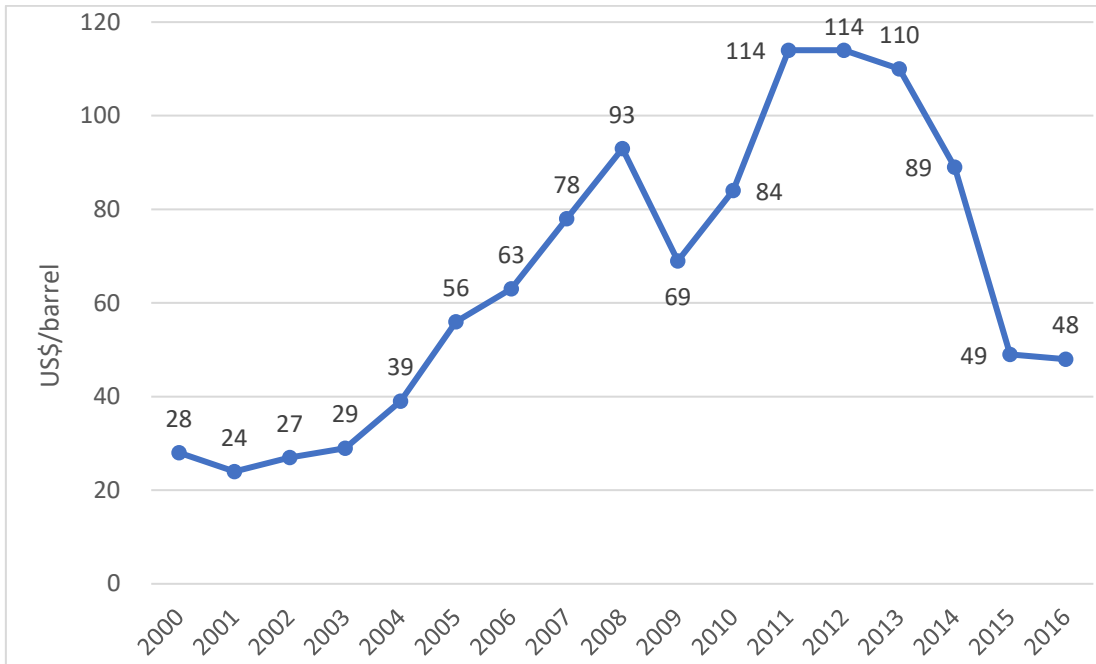
The international crude oil price in the outlook model used the imported price of Japan cost, insurance, and freight (CIF) as representing the world crude oil price. Historical crude oil price data were used for ERIA's energy outlook activity and for saving potential. Figure 3.1 shows the CIF crude oil price from 2000 to 2016.

Table 3.3. World Development Indicators, Myanmar, 2000–2016

Series Name	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Agriculture, value added (billion constant 2010 US\$)	9.15	9.95	10.55	11.78	13.07	14.65	15.46	16.79	17.84	18.89	18.26	18.14	18.44	19.11	19.64	20.31	20.22
Agriculture, value added (trillion constant LCU)	7.35	7.99	8.47	9.46	10.50	11.76	12.41	13.48	14.32	15.16	14.66	14.56	14.81	15.35	15.77	16.31	16.23
Consumer price index (2010 = 100)	14.99	15.99	16.99	17.99	18.99	19.99	20.99	21.99	22.99	23.99	24.99	25.99	26.99	27.99	28.99	29.99	30.99
GDP (billion constant 2010 US\$)	15.98	17.80	19.94	22.70	25.78	29.28	33.10	37.07	40.87	45.19	49.54	52.31	56.15	60.88	65.74	70.34	74.46
GDP (trillion constant LCU)	12.83	14.29	16.01	18.22	20.70	23.51	26.58	29.77	32.82	36.28	39.78	42.00	45.08	48.88	52.79	56.48	59.79
GDP deflator (base year varies by country)	19.89	24.83	35.14	42.34	43.87	52.27	63.41	78.40	89.07	93.42	100.00	110.25	113.71	118.68	123.64	128.75	133.41
Industry, value added (billion constant 2010 US\$)	1.55	1.89	2.55	3.08	3.73	4.48	5.80	6.89	8.11	9.59	13.11	14.45	15.61	17.39	19.50	21.13	23.01
Industry, value added (trillion constant LCU)	1.24	1.52	2.05	2.47	3.00	3.60	4.65	5.53	6.51	7.70	10.53	11.60	12.53	13.96	15.66	16.96	18.48
Manufacturing, value added (billion constant 2010 US\$)	1.15	1.40	1.80	2.19	2.73	3.33	4.24	5.12	6.11	7.25	9.84	10.90	11.81	12.94	14.16	15.56	17.01
Manufacturing, value added (trillion constant LCU)	0.92	1.12	1.44	1.76	2.19	2.68	3.40	4.11	4.91	5.82	7.90	8.75	9.48	10.39	11.37	12.50	13.66
Official exchange rate (LCU per US\$, period average)	6.52	6.75	6.64	6.14	5.81	5.82	5.84	5.62	5.44	5.58	5.63	5.44	640.65	933.57	984.35	1162.62	1234.87
Population in largest city (million)	3.57	3.65	3.72	3.80	3.88	3.96	4.04	4.12	4.21	4.29	4.38	4.47	4.56	4.66	4.75	4.85	4.95
Population, total (million)	46.72	47.23	47.70	48.15	48.56	48.95	49.30	49.62	49.93	50.25	50.60	50.99	51.41	51.85	52.28	52.68	53.05
Rural population (million)	34.09	34.38	34.64	34.87	35.08	35.27	35.43	35.57	35.70	35.83	35.98	36.17	36.37	36.58	36.78	36.95	37.09
Services, etc., value added (billion constant 2010 US\$)	5.85	6.68	7.37	8.28	9.32	10.13	11.52	12.82	14.06	15.18	18.17	19.72	22.09	24.37	26.60	28.90	31.24
Services, etc., value added (trillion constant LCU)	4.69	5.36	5.92	6.65	7.48	8.14	9.26	10.30	11.30	12.20	14.60	15.80	17.70	19.60	21.40	23.20	25.10
Urban population (million)	12.63	12.85	13.07	13.28	13.48	13.68	13.87	14.05	14.23	14.42	14.62	14.83	15.05	15.27	15.50	15.73	15.96

Source: World Bank, World Development Indicators. <https://data.worldbank.org/country/myanmar?view=chart> (accessed 24 October 2018).

Figure 3.1. Nominal Crude Oil Price (CIF Japan)



CIF = cost, insurance, and freight.

Source: Trade Statistics of Japan (2018).

4. National Data

In principle, national data should be used in estimating energy demand formulas. The World Bank's World Development Indicators data for Myanmar exclude the local energy price and other activity data that were relevant for estimating the energy demand equations.

4.1. Local Energy Price

Local energy prices included petroleum products (gasoline, diesel, LPG, amongst others); gas; electricity; and coal. Import CIF, CPI, and sales price were the basis for determining the domestic energy price. Local energy prices should be the relative price not the absolute price.

$$\text{Energy demand } (De) = f(Y, Pe/PGDP, De_{-1})$$

where,

Y : Income (GDP, etc.)

Pe : Energy price (coal, petroleum products, gas and electricity price)

$PGDP$: GDP deflator (overall price, CPI, etc.)

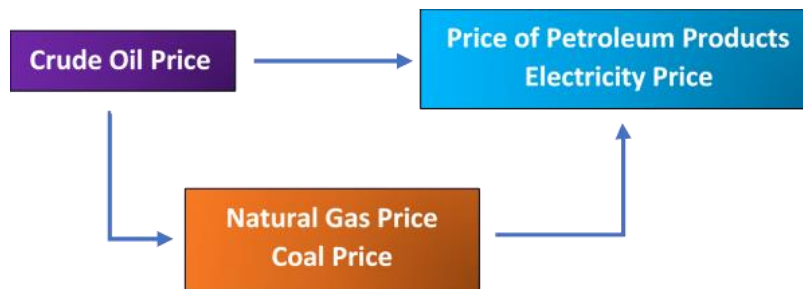
$Pe/PGDP$: Relative variable

De : Energy demand (coal, oil, gas, and electricity)

De_{-1} : Lag variable (show habit)

The international energy price can be used to explain the local energy price if the data are not available. Thus, the local energy price will be a function of the international energy price.

Figure 3.2. Estimating Local Energy Price



Source: Author.

Examples:

Motor gasoline price : $MGprice = f(Poil/exr/pgdp, MGprice(-1))$

Electricity price : $Eprice = f(DEprice/pgdp, Eprice(-1))$

Natural gas price : $NGprice = f(DNGprice/pgdp, NGprice(-1))$

Poil : Crude oil price (US\$/barrel, nominal)

Exr : Exchange rate

Pgdp : GDP deflator

DEPrice : Domestic electricity price

DNGPrice : Domestic natural gas price

4.2. Local Activity Data

Local activity data that were commonly used in estimating the energy demand function of the final sectors were the following:

- (1) Industry sector: Index of industrial production (IIP)
- (2) Road sector: Number of vehicles (stock basis)
- (3) Residential sector: Number of households
- (4) Commercial sector: Number of buildings, floor area

These local activity data were usually explained by macro variables such as GDP.

Examples:

Index of industrial production : $IIP = f(\text{Industrial GDP}, IIP(-1))$

Number of cars : $Ncar = f(\text{GDP}, Ncar(-1))$

Floor area : $Floor = f(\text{commercial GDP}, floor(-1))$

Number of households : $NHH = f(\text{Population}, NHH(-1))$

Local activity data collected by the OGPD to estimate demand function for road transport was the number of vehicles (Table 3.4).

Table 3.4. Vehicle Statistics of Myanmar

	Passenger Car	Truck	Bus	Two-wheeler	Three-wheeler	Others	Total
2000	173.44	53.89	16.87	174.49	1.31	22.27	442.26
2001	174.65	53.54	17.55	171.18	1.17	31.40	449.50
2002	177.34	54.09	17.54	172.57	1.00	44.17	466.71
2003	183.33	52.15	17.78	174.50	0.96	54.33	483.05
2004	186.91	52.75	17.97	638.52	1.33	66.79	964.27
2005	193.94	54.80	18.04	641.78	2.37	68.36	979.29
2006	202.07	55.38	18.86	646.87	3.95	69.63	996.76
2007	217.02	57.21	19.29	659.00	5.64	74.68	1032.84
2008	233.23	58.86	19.68	1612.42	6.67	68.10	1998.96
2009	245.92	61.13	19.81	1749.08	8.88	62.59	2147.40
2010	265.64	64.89	20.94	1883.96	13.42	59.67	2308.52
2011	249.56	67.75	19.58	1955.51	18.00	53.35	2363.75
2012	292.92	74.55	19.81	3219.21	38.55	54.07	3699.11
2013	382.77	124.60	22.15	3595.47	51.40	61.29	4237.68
2014	429.49	193.56	26.75	4276.70	65.16	86.04	5077.70
2015	462.20	250.53	25.94	4631.11	74.27	97.32	5541.36
2016	512.14	322.53	26.80	5271.11	84.41	120.01	6337.00

Note: Others include ambulances, dump trucks, and trailers, amongst others.

Source: Oil and Gas Planning Department, Ministry of Electricity and Energy.