



Collection of activity indicators and end-use energy consumption data (Chinese Taipei)

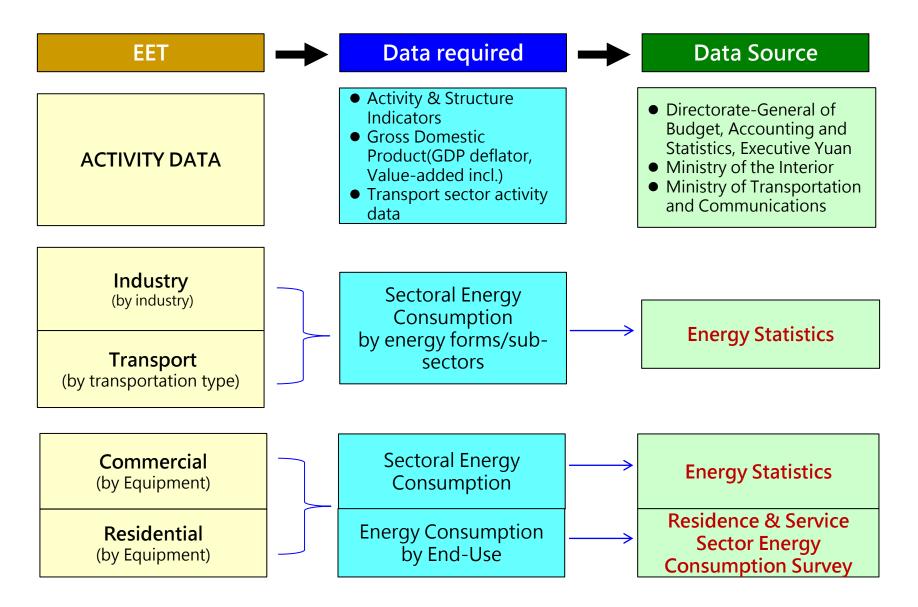


Chih-Ching Yang (Vanessa) Taiwan Research Institute Date: 2021.6.28

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I. Data Coverage of Energy Efficiency Template



II. Collection of Activity Indicators(1/8) 1. Activity & Structure Indicators

Reporting Item	Data Source	website
Total Population	Ministry of the Interior	https://statis.moi.gov.tw/micst/stmain.jsp?sys=100
Urban & Rural	-	-
Total Employment Services & Industry & Agriculture	Directorate-General of Budget, Accounting and Statistics, Executive Yuan	https://win.dgbas.gov.tw/dgbas04/bc4/manpower/year/yearf.asp?table=56
	,	
Total Dwellings	Housing Stock	https://pip.moi.gov.tw/V3/E/SCRE0303.aspx
Occupied Dwellings	Sampling survey report on housing conditions(once per 10 years)	https://pip.moi.gov.tw/V3/F/SCRF0201.aspx
New Dwellings	under construction + newly constructed	https://pip.moi.gov.tw/V3/E/SCRE0301.aspx
Household Occupancy	Calculated by "Total Population / Occupied Dwellings"	-
Total Dwelling Area (Residential Floor Area)	Construction and Planning Agency, MOI. (8.1 Construction License by Use)	https://ws.moi.gov.tw/001/Upload/400/relfile/0/4413/2799: d24-047e-42d5-b38a-59704823138f/month/month.html
Annual Heating Degree-Days	-	-
Annual Cooling Degree-Days	Energy statistics handbook p.140(Calculated based on the data from Central Weather Bureau; Ministry of the Interior)	-
U.S. Dollar Exchange Rate (national currency per USD)	Directorate-General of Budget, Accounting and Statistics, Executive Yuan	http://statdb.dgbas.gov.tw/pxweb/Dialog/varval.asp?ma=NA 8101A1A&ti=%B0%EA%A5%C1%A9%D2%B10%B2%CE%ADp% B1`%A5%CE%B8%EA%AE%C6- %A6~&path=/PXfile/NationalIncome/⟨=9&strList=L
PPP conversion factor, GDP	-	-
Consumer Prices Index (2016=100)	Directorate-General of Budget, Accounting and Statistics, Executive Yuan	http://statdb.dgbas.gov.tw/pxweb/Dialog/varval.asp?ma=PR 0101A1A&ti=%AE%F8%B6O%AA%CC%AA%AB%BB%F9%B0%F 2%A5%BB%A4%C0%C3%FE%AB%FC%BC%C6- %A6~&path=/PXfile/PriceStatistics/⟨=9&strList=L
Household final consumption expenditure, PPI	-	-
Total Services Floor Area	Construction and Planning Agency, MOI. (8.5 Usage License by Use-)	https://ws.moi.gov.tw/001/Upload/400/relfile/0/4413/27991 d24-047e-42d5-b38a-59704823138f/month/month.html
New Services Floor Area	_	-

II. Collection of Activity Indicators(1/8)

2. Gross Domestic Product

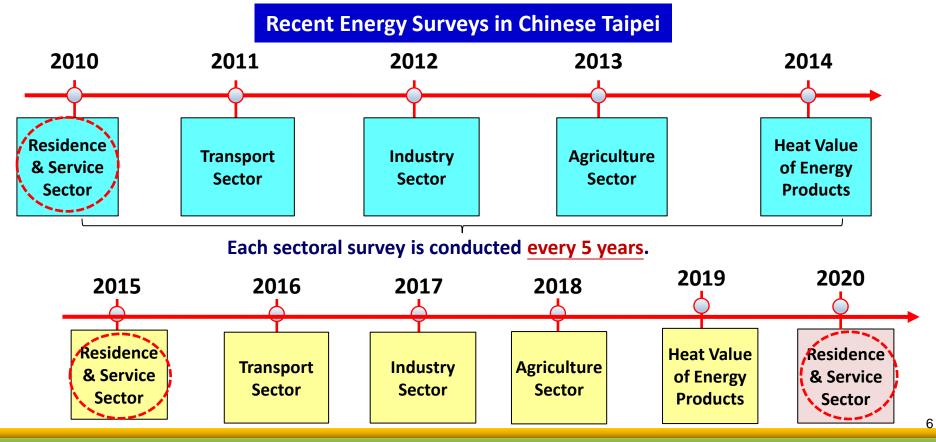
Reporting Item	Data Source	website
GDP (constant 2010 US\$)	-	-
GDP (constant 2016 LCU)	Directorate-General of Budget, Accounting and	http://statdb.dgbas.gov.tw/pxweb/Dialog/varval.asp?ma=NA
GDP (current LCU)	Statistics, Executive Yuan	8102A1A&ti=%B0%EA%A4%BA%A5%CD%B2%A3%A4%F2%C3 B%A8%CC%A4%E4%A5X%A4%C0-%A6~(1951-
GDP (current US\$)		1980)&path=/PXfile/NationalIncome/⟨=9&strList=L
GDP, PPP (constant 2011 international \$)	_	
GDP, PPP (current international \$)	-	-
GDP deflator (base year varies by country)	Directorate-General of Budget, Accounting and Statistics, Executive Yuan (2016=100)	http://statdb.dgbas.gov.tw/pxweb/Dialog/varval.asp?ma=NA 8101A1A&ti=%B0%EA%A5%C1%A9%D2%B10%B2%CE%ADp% B1`%A5%CE%B8%EA%AE%C6- %A6~&path=/PXfile/NationalIncome/⟨=9&strList=L
Value-added(Services & Industry & Agriculture, forestry and fishing)	Directorate-General of Budget, Accounting and Statistics, Executive Yuan	http://statdb.dgbas.gov.tw/pxweb/Dialog/varval.asp?ma=NA 8103A1A&ti=%B0%EA%A4%BA%A6U%B7~%A5%CD%B2%A3 %A4%CE%A5%AD%B4%EE%AB%FC%BC%C6- %A6~&path=/PXfile/NationalIncome/⟨=9&strList=L

3. Transport sector activity data

Reporting Item	Data Source	website		
Vehicle stocks				
Passenger transport	Department of Statistics, Ministry of			
Vehicle kilometres	Transportation and Communications	https://stat.motc.gov.tw/mocdb/stmain.jsp?sys=100		
Freight transport				

III. Collection of End-Use Data(1/2)

- **1.Purpose for Detailed Energy Consumption Data Collection**
 - (1)Collect end-use energy consumption data for policy analysis;
 - (2)Build up energy efficiency indicator database;
 - (3)Establish <u>energy efficiency indicator statistics</u> for domestic & international reporting.



III. Collection of End-Use Data(2/2)

- 2.Take Residential Energy Consumption Survey for example : the questionnaire includes
 - (1) types and numbers of **Energy Consuming Appliance**
 - (2) energy consumption (by energy type) of each appliance
 - => As a basis for the allocation of energy consumption by equipment.

Space Cooling/ Heating	Water Heating ● Water	Cooking ● Induction	• Video player	Appliance Number
 Air-conditioner (Split, window, and package type) 	 dispenser Electric hot water bottle 	cooker • Rice cooker • Microwave	 Audio equipment PDP/LCD TV CRT TV 	Frequency of Utilization (Summer/Non-Summer)
 Central air conditioning system Fan/ventilator 	Water heaterOthers	oven • Electric oven • Gas stove	PCPrinterMulti-function	Duration of Utilization
• Space heater Lighting	Freezing	 Others Other 	printer Transportation	Type of Energy Used
 Incandescent light Fluorescent light 	 Refrigerator Freezer Refrigerator/ 	 Dish washer Clothes washer 	 Car Personal light truck 	Using Years
 PL fluorescent light Compact Fluorescent Light Bulb 	freezer combination	 Clothes dryer Dehumidifier Smart phone 	 SUV Motorcycle Electric 	Number of Appliances with Energy Label
 Halogen lamp LED HID Others 		 Tablet computer WIFI 	 motorcycle hybrid, electric vehicle Electric bicycle 	Number of Planned Appliance Replacement within 1 Year

IV. Filling-out the Template(1/5)

1.Activity data from non-energy official statistical agencies

Directorate-General of Budget, Accounting and Statistics, Executive Yuan. https://eng.stat.gov.tw/mp.asp?mp=5

Ministry of the Interior

https://statis.moi.gov.tw/micst/stmain.jsp?sys=100

=> Activity & Structure Indicators

Gross Domestic Product

GDP deflator
Value-added

Department of Statistics, Ministry of Transportation and Communications.

https://stat.motc.gov.tw/mocdb/stmain.jsp?sys=100&funid=emenu

=> Transport sector activity data

Convert Units

1	ΑCTIVITY DATA	units	1990	1991	1992
2 Note	: Definitions are found in the last worksheet				
3 I.	Activity & Structure Indicators				
22	Consumer Prices Index (2016=100)	index	66.25	68.65	71.72
23	Household final consumption expenditure, PPP (constant 2011 international \$)	JS\$ PP	_	'	-
24					
25	Total Services Floor Area	10 ⁶ m ²	-	-	-
26	New Services Floor Area	10 ⁶ m ²	_	'	-
27					
28 II.	Gross Domestic Product (from World Bank World Development Indicators Da	tabase)			
29	GDP (constant 2010 US\$)				
0	GDP (constant 2016 LCU)	Ś	5,160.86	5,592.92	6,057.70
1	GDP (current LCU)	6	4,474.29	5,018.02	5,609.36
2	GDP (current US\$)	billions	166.39	187.10	222.95
3	GDP, PPP (constant 2011 international \$)	,	-	-	-
34	GDP, PPP (current international \$)		-	-	_
5 III.	GDP deflator 2011=100				
6	GDP deflator (base year varies by country)		86.70	89.72	92.60
	detailed data is not collected by the outhouities	_	Data i	a not a	vailabl
some	detailed data is not collected by the authorities	- <= -	Data I	s not a	valiapi

IV. Filling-out the Template(2/5)

2.Commercial

(1) Total energy consumption of Service Sector from energy balance sheet

0/		01
Grand Total	Unit	Item
5,493,757	toe	Service Sector
444,397	toe	Wholesale and Retail
1,063,358	toe	Hotels and Restaurants
136,149	toe	Transport Services
85,139	toe	Storage and Warehousing
126,049	toe	Communication
87,982	toe	Finance, Insurance and Real Estate
145,199	toe	Business Services
764,190	toe	Social and Personal Services
801,249	toe	Public Administration
1,840,044	toe	Activities Not Adequately Defined

(2)Energy consumption by equipment is estimated based on Residence &

Service Sector survey

- => Calculate energy consumption ratio
 - of each equipment by energy type .
- =>Reported data is equal to

Energy Consumption Ratio	Oil	LPG	NG	Electricity	Total
Heating	0.00	0.00	0.00	0.00	0.00
Cooling	0.00	0.00	0.00	0.36	0.36
Lighting	0.00	0.00	0.00	0.11	0.11
Other energy use	0.03	0.01	0.06	0.43	0.53
Total	0.03	0.01	0.06	0.90	1.00

total energy consumption × energy consumption ratio

Table 3		Unit	2010	2011	2012	2013	2014	2015	2016
		ktoe							
	Total		5,413.05	5,290.73	5,194.69	5,272.48	5,368.00	5,433.79	5,435.67
1	Coal & Coal Products	ktoe	-	-	-	-	-	-	-
2	Oil & Petroleum Products	ktoe	1,034.45	974.31	925.50	952.21	961.18	962.43	880.64
3	Natural Gas	ktoe	428.27	376.98	332.55	372.97	407.15	414.09	427.22
4	Renewables	ktoe	3.09	3.06	3.08	3.05	3.03	3.06	3.03
5	Electricity	ktoe	3,947.24	3,936.38	3,933.56	3,944.25	3,996.64 🍢	4,054.20	4,124.78
6	Heat	ktoe	-	-	-	-	-	-	_
7	Others	ktoe	-	-	-	-	-	-	_
	Space Heating		10.88	10.85	10.84	10.87	4.99	5.06	5.15
1	Coal & Coal Products	ktoe							
2	Oil & Petroleum Products	ktoe							
3	Natural Gas	ktoe							
4	Renewables	ktoe							
5	Electricity	ktoe	10.88	10.85	10.84	10.87	4.99	5.06	5.15

IV. Filling-out the Template(3/5)

3.Residential

- (1) The same logic of data processing with "Commercial and Public Services"
 - => Total energy consumption of <u>Residential Sector</u> in energy balance table is cited.
- (2) The survey of end-use energy consumption (by energy type) data is more detailed
 - => reclassify the data of related home appliances according to the required items.

	Energy Consumption Ratio	Oil	LPG	NG	Solar Thermal	Electricity	Total
	Heating	0.00	0.00	0.00	0.00	0.01	0.01
	Cooling	0.00	0.00	0.00	0.00	0.18	0.18
Deve outing items	Water Heating	0.00	0.04	0.03	0.00	0.11	0.18
Reporting items	Cooking	0.00	0.05	0.03	0.00	0.08	0.16
	Lighting	0.00	0.00	0.00	0.00	0.12	0.12
Refrigerators & Freezers-	Refrigerator	0.00	0.00	0.00	0.00	0.11	0.11
	Freezer	0.00	0.00	0.00	0.00	0.01	0.01
Other Kitchen Facilities –	dishwasher	0.00	0.00	0.00	0.00	0.00	0.00
Laundry Facilities 🗐	washing machine	0.00	0.00	0.00	0.00	0.02	0.02
	Clothes dryer	0.00	0.00	0.00	0.00	0.00	0.00
TV//DC/Entertainment	TV/home entertainment	0.00	0.00	0.00	0.00	0.05	0.05
TV / PC / Entertainment -	Computer/communication equipment	0.00	0.00	0.00	0.00	0.05	0.05
Other Energy Use 🖵	Other electrical appliances	0.00	0.00	0.00	0.00	0.11	0.11
in Residential Sector	Other energy use	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.08	0.06	0.00	0.85	1.00

IV. Filling-out the Template(4/5)

4.Transport

The Complete data for energy consumption by transportation usage in EBT

=> Simply fill in the corresponding number to the template.

1 Cost of the sector Total Products Total Products Total 73 運輸部門 7,986,164 4,048,944 35,715 89,367 122,377 12,380,286 Transport Sector 74 國內航空 97,719 Domestic Air 97,719 Domestic Air 97 75 公路 7,986,164 3,948,081 35,715 122,377 139,330 Rail 76 鐵路路 16,953 122,377 139,330 Rail Rail 77 管線運輸 11,969,960 Road Pipeline Transport Pipeli			
項目 Motor Gasoline Diesel Oil LPG Fuel Oil Natural Gas Electricity Coal and Coal Grand Total Motor Gasoline Diesel Oil LPG Fuel Oil Natural Gas Electricity Coal and Coal Grand Total C38-C39 C2-C12 C38-C39 C38-C39 C2-C12 C38-C39 C2-C38 C38-C39 C2-C38 C38-C3 C38-C39 C38-C3 C38-C3 C38-C3 C38-C			
Motor Gasoline Diesel Oil LPG Fuel Oil Natural Gas Electricity Coal and Coal Grand Total 73 運輸部門 7,986,164 4,048,944 35,715 89,367 122,377 12,380,286 Transport Sector 74 國內航空 97,719 Domestic Air 97,719 Domestic Air Domestic Air 75 公路 7,986,164 3,948,081 35,715 122,377 139,330 Rail R 76 鐵路 16,953 122,377 139,330 Rail R 77 管線運輸 16,953 122,377 139,330 Rail R 78 國內水運 83,910 89,367 122,377 Internal Navigation Non-Specified 79 其他 100 11,236,6 11,664,7 11,669,2 12,226 12,267,4 79 其他 11,1,100 2001 2002 2003 2004 2005 79 其他 11,236,6 11,236,6 11,664,7 11,669,2 1			
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73 運輸部門 7,986,164 4,048,944 35,715 89,367 122,377 12,380,286 Transport Sector 74 國內航空 97,719 Domestic Air 0 97,719 Domestic Air 0 75 公路 7,986,164 3,948,081 35,715 1122,377 139,330 Rail Rail 76 鐵路 16,953 122,377 139,330 Rail	iter	items	
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6 Jet Fuel & Aviation Gasoline 276.53 252.38 210.65 215.72 197.93 7 Natural Gas 0 0 0 0 0 0 8 Renewables (Biofuels) 0 0 0 0 0 0 9 Electricity 38.53 40.81 39.96 44.59 44.96 0 Other 0 0 0 0 0.3.53 1 Road transport (SUVs, cars, perosnal light trucks, m 10,454.58 10,952.47 11,077.24 11,492.85 11,825.08 2 Motor Gasoline 7,388.9 7,528.7 7,80.8 8,002.2 8,191.4		55.98	61.
7 Natural Gas 0 0 0 0 0 8 Renewables (Biofuels) 0 0 0 0 0 9 Electricity 38.53 40.81 39.96 44.96 0 Other 0 0 0 3.53 1 Road transport (SUVs, cars, perosnal light trucks, m 10,454.58 10,952.47 11,492.85 11,826.08 2 Motor Gasoline 7,388.9 7,528.7 7,803.8 8,002.2 8,191.4	232.99		194. 130.
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	7,987.3		7,765
			3,637
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IV. Filling-out the Template(5/5)

5.Industry

There is also complete data for <u>industrial energy consumption</u> in our energy balance table

=>Report the data according to the industry reference table below.

Balance sheet	Reporting items				
Industrial Sector	Total Industry Use				
Mining and Quarrying(excluding coal, oil and gas)	Mining and quarrying				
Food, Beverage and Tobacco	Manufacture of food products, beverages, tobacco products				
Textile, Wearing Apparel and Accessories	Manufacture of taxtilas, waaring apparel, lasther and related products				
Leather and Fur	Manufacture of textiles, wearing apparel, leather and related products				
Wood, Bamboo and Furniture	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials				
Pulp, Paper and Paper Products	Manufacture of paper and paper products				
Printing	Manufacture of paper and paper products				
Chemical Materials					
Chemical Products	Manufacture of chemicals and chemical products & basic pharmaceutical products as pharmaceutical preparations including petro-chemicals				
Rubber Products					
Plastic Products					
Non-metallic Mineral Products	Manufacture of non- metallic mineral products (including rubber and plastics products)				
Basic Metal Industries	Manufacture of basic metals (Iron and steel)				
Fabricated Metal Products					
Machinery and Equipments	Manufacture of fabricated metal products, machinery and equipment				
Electrical and Electronic Machinery	Manufacture of fabricated metal products, machinery and equipment				
Precision Instruments					
Transport Equipments	Manufacture of motor vehicles, trailers, other transport equipment				
Construction	Construction				
Miscellaneous Industries					
Water Supply and Remediation Activities	Other Manufacturing and Industries Not Elsewhere Specified				
Non-Specified					

Thank you