

**NATIONAL ENERGY DEMAND/SUPPLY
DATABASE**

Palau

SOPAC Miscellaneous Report 328

Prepared by

The Energy Unit
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1.0 Introduction

The National Energy Demand/Supply Database was established to enable Pacific Island Countries (PICs) to source, record and store energy data for not only to develop their policies but also be made available to donors and other regional organizations for their appropriate responses.

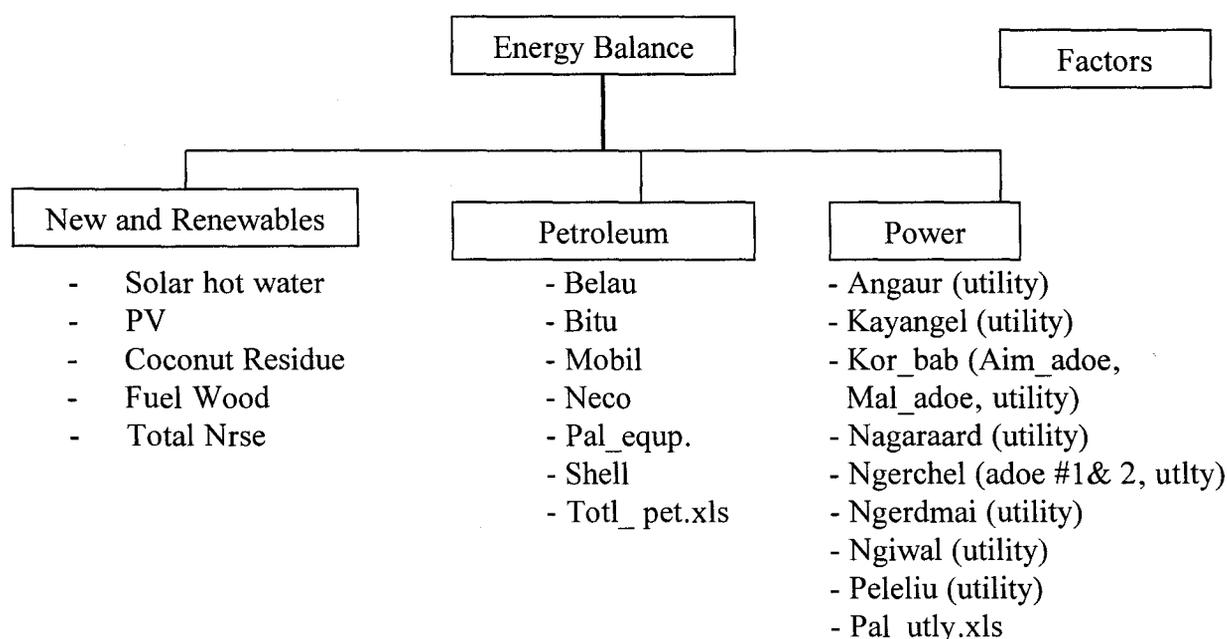
This was implemented by the Energy Division¹ of the Forum Secretariat in 1994. Since then, the database work has not been progressing as expected. A request by the PICs to modify the existing structure so as to reduce complexity, minimize workload in collecting/inputting data and be more user friendly have lead SOPAC to carry-out the necessary modifications.

The modification comprises of reducing the desegregation of the Petroleum Sector and combining the individual sheets to single workbooks. The annexes provide detail information regarding conversion factors, classification of the end-use sectors, abbreviations used and workbook structures.

The purpose of this report is to assist Palau's Energy Planning Unit (EPU) in sourcing, collecting and inputting energy data into the modified version of the database.

2.0 Description of the Modified Database

The Energy Supply/Demand Database is a series of inter-linked worksheets/workbooks. The modified database is in Microsoft Excel. The basic structure of the database is as follows:

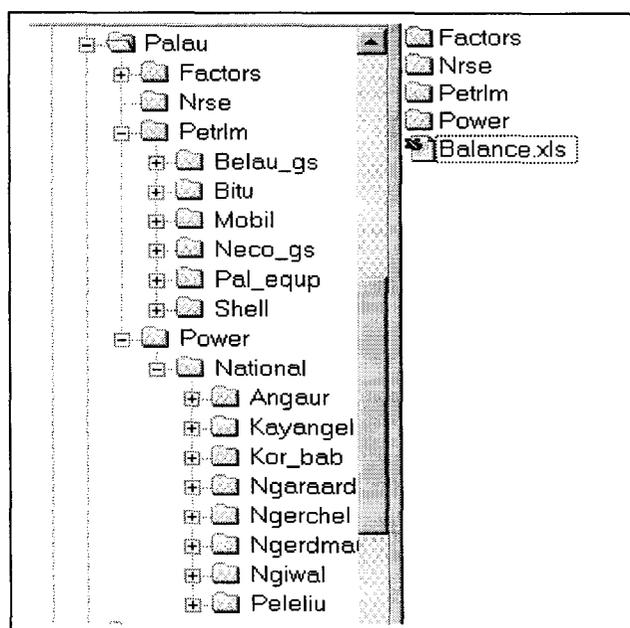


¹ physically relocated to SOPAC in January 1998

The above diagram illustrates the linkages to the Energy Balance.

Note:

- The “Factors” are not linked to the energy balance.
- All sheets are protected so as to avoid accidental tempering with the hidden formulae.



2.1 Factors

The workbook has a single sheet, which shows Palau’s Economic/Demographic Indicators, Current Retail Energy Prices and selected Projections (see Annex 5).

2.2 New and Renewables

The New and Renewables workbook contents are summarized below:

| Sheet(s) | Content |
|-------------------------|--|
| Total NRSE | summary of consumption of new and renewables by sectors (units = GJ) |
| Solar Hot Water Heaters | shows the total energy supplied by SHW systems in MWh and GJ |
| PV | shows the energy provided by PVs in MWh and GJ |
| Coconut wood & residue | calculates the energy obtained from coconut wood & residue in GJ and te. |
| Fuel wood & Woodwaste | gives the total consumption in GJ and te. |

The *end-use sectors*² in New and Renewables are: Agriculture, Forestry and Fishing; Manufacturing (produce drying, sawmills, oil processing, etc); Electricity Generation; Wholesale, Retail Trade and Recreation (includes hotels, resorts, restaurants, etc); Transport and Communication (warehousing, post & telecommunications, etc); Community and Social Services (street lighting, schools/educational institutes, local government administration services, etc); and Residential (Urban & Rural). Annex 6 provides further details of the New and Renewables workbook.

² see Annex 3 for a detailed classification of the end-use sectors

2.3 Petroleum

The petroleum sector comprises of the following workbooks: *Belau_gs*; *Bitu*; *Mobil*; *Neco_gs*; *Pal equip*; *Shell* and *Total Petroleum*. Each workbook has a series of interlinked sheets containing data for the respective petroleum products.

The *end-use sectors* are categorized according to product type. For example, Avgas will only have Wholesale, Retail Trade & Recreation, and Transport (International Air & Domestic Air); for ADO the end-use sector comprises of Agriculture, Forestry & Fishing, Mining & Quarrying, Manufacturing, Electricity Generation, Water Supply, Construction, Wholesale/ Retail Trade & Recreation and Transport (rail, road & sea). Refer to Annex 7 for a detail structure of the Petroleum Sector.

2.4 Power

There is no change in the structure of the power sector. The *end-use sector* comprises of: Agriculture, Forestry and Fishing; Mining and Quarrying; Manufacturing; Water and Sewerage; Construction; Wholesale/Retail Trade and Recreation; Transport and Communication; Finance and Business Services; Community and Social Services; Street Lighting; and Residential. See Annex 8 for more details.

2.5 Energy Balance

The energy balance workbook consists of ten sheets (ten energy balances; e.g., 1990 – 1999). This is the end product of the energy database where it summarises details of individual national energy sources and consumption. The energy balance is inter-linked to the New and Renewables, Petroleum and Power Workbooks (see Annex 9 for Energy Balance structure).

3.0 Required Data and Possible Sources

The sub-sections that follow outlines the data required for updating the energy database and their possible sources.

3.1 Factors

Economic/Demographic Indicators

- GDP values (current prices, constant prices, per capita and by sector)
- Value of total imports/exports
- Exchange Rate
- Population
- Number of households
- etc.

Current Retail Energy Prices

- current prices/litre for all petroleum products
- current electricity prices/kWh for Industrial, Commercial, Residential, and Government

3.2 New and Renewables

- number of operating PV modules and solar hot water systems
- average area³ per module/collector (m²)
- average system efficiency⁴ (%)
- insolation rate (MJ/m²/day)
- number of households (urban & rural)
- estimated number of persons per household
- an average consumption rate of biomass per sector

Biomass consumption⁵: rural – 3400 kg/hh/yr (or 1.4 kg/person/day)

% of fuelwood vs % of coconut residue – assume 90%/10% for island environment.

The following ratios may be used in calculating coconut residue (shell & husks) consumed by the copra industry:

- 2.5 tonnes coconut residue consumed / 1 tonne of copra produced using traditional smoke dryers; or
- 1.25 tonnes coconut residue consumed / 1 tonne of copra produced using “hot-air-dryers”.

3.3 Petroleum

- import figures for the petroleum products⁶
- re-export figures, if any
- stock levels at 1st January and 31st December for each year
- actual sales figures
- consumption per end-use sectors

Annex 1 provides details on conversion factors.

³ typical collector areas: SHW = 2.98 m² (180 litre system) & 3.98 m² (300 litre system); PV modules ≈ 2 m²

⁴ average efficiency values: SHW = 20% - 30%; PV = 10% - 15%

⁵ reference: Manual for the National Energy Demand/Supply Database; assume 10% of households consumes biomass.

⁶ Ado, Avgas, Dpk, Benzene, Solvs, Bitu, Lubs & Grease, Mogas and LPG

3.4 Power

- installed capacity (kW)
- derated capacity (kW)
- gross generation (MWh)
- station own use & losses (MWh)
- lubricant oil used (kl)
- ADO used in the power generation (kl)
- maximum station demand (kW)
- purchases from self generators (MWh), if applicable
- sales to self generators (MWh), if applicable
- transmission losses (MWh)
- distribution losses (MWh)
- estimate of pilferage and unmetered sales (MWh)
- maximum system demand (kW)
- consumption by the end-use sectors (MWh)

Annex 1 provides details on conversion factors.

3.5 List of possible data sources

| | | |
|---------------------------------------|------------------------|-------------------|
| Oil/Gas Companies | Power Utilities | Airlines |
| Customs Departments | Solar Utilities | Shipping Agencies |
| Statistical Publications ⁷ | Meteorological Offices | |
| Statistics Offices | Energy Survey Results | |

Establishing data sources with a company/organization will generally require a formal and senior level approach. It is crucial that a good work relationship is enhanced and data collection is maintained on a regular and consistent basis.

⁷ examples: by the ADB, SPC & UN

4.0 ANNEXES

ANNEX 1 CONVERSION FACTORS

The following factors are indicative, because a fuel's specifications varies with source, time, place, temperature, etc. The energy factors measure the gross energy content of the fuel.

1. Liquid Fuels

(Note: gallons and tons are US measures)

| | Megajoules per Litre | Megajoules per Gallon | Litres per Tonne | Gallons per Ton | Gigajoules per Tonne | Gigajoules per Ton |
|-----------------------------------|-------------------------|--------------------------|---------------------|--------------------|-------------------------|-----------------------|
| LPG (Propane) | 25.3 | 95.8 | 1960 | 469.7 | 49.6 | 45.0 |
| LPG (Butane) | 27.7 | 104.9 | 1730 | 414.6 | 49.0 | 44.5 |
| Aviation Gasoline (Av Gas) | 33.2 | 125.7 | 1410 | 337.9 | 46.8 | 42.5 |
| Motor/Automotive Gasoline (Mogas) | 34.6 | 131.0 | 1340 | 321.1 | 46.4 | 42.1 |
| Dual Purpose Kerosene (DPK) | 36.8 | 139.3 | 1260 | 302.0 | 46.4 | 42.1 |
| Automotive Diesel Oil (ADO) | 38.6 | 146.1 | 1180 | 282.8 | 45.6 | 41.4 |
| Industrial Diesel Oil (IDO) | 39.0 | 147.6 | 1150 | 275.6 | 44.9 | 40.7 |
| Fuel Oil - high sulphur (FO) | 40.8 | 154.4 | 1050 | 251.6 | 42.9 | 38.9 |
| Ethanol (PNG only) | 23.4 | 88.6 | 1266 | 303.4 | 29.6 | 26.9 |
| Solvents/White Benzene | 34.0 | 128.7 | 1420 | 340.3 | 48.1 | 43.6 |
| Lubricants and Greases | 38.8 | 146.9 | 1120 | 268.4 | 43.4 | 39.4 |
| Bitumen | 44.0 | 166.6 | 980 | 234.9 | 42.7 | 38.7 |
| Crude Oil (PNG Kutubu Light) | 35.9 | 135.9 | 1249 | 299.3 | 44.9 | 40.7 |
| Coconut Oil | 34.9 | 132.1 | 1100 | 263.6 | 38.4 | 34.8 |

2. Petroleum crude specific gravities (approximate figures at 15°C)

| Degrees API | Specific gravity | Litres per Tonne | MJ per Litre |
|-------------|------------------|------------------|--------------|
| 25 | 0.903 | 1108 | 39.7 |
| 26 | 0.898 | 1114 | 39.5 |
| 27 | 0.892 | 1123 | 39.2 |
| 28 | 0.886 | 1129 | 39.1 |
| 29 | 0.881 | 1136 | 38.9 |
| 30 | 0.875 | 1144 | 38.6 |
| 31 | 0.870 | 1150 | 38.5 |
| 32 | 0.865 | 1157 | 38.3 |
| 33 | 0.859 | 1165 | 38.1 |
| 34 | 0.854 | 1172 | 37.9 |
| 35 | 0.849 | 1179 | 37.7 |
| 36 | 0.844 | 1187 | 37.5 |
| 37 | 0.839 | 1193 | 37.3 |
| 38 | 0.835 | 1198 | 37.2 |
| 39 | 0.829 | 1207 | 37.0 |
| 40 | 0.824 | 1215 | 36.8 |
| 41 | 0.820 | 1220 | 36.6 |
| 42 | 0.815 | 1228 | 36.4 |
| 43 | 0.810 | 1235 | 36.3 |
| 44 | 0.805 | 1243 | 36.1 |
| *45 | 0.801 | 1249 | 35.9 |
| 46 | 0.796 | 1257 | 35.7 |
| 47 | 0.792 | 1263 | 35.6 |
| 48 | 0.788 | 1270 | 35.4 |
| 49 | 0.783 | 1278 | 35.2 |
| 50 | 0.779 | 1284 | 35.1 |

* "Kutubu Light", PNG.

3. Solid Fuels

| | Gigajoules per Tonne | Gigajoules per Ton |
|---|-------------------------|-----------------------|
| Black Coal - steaming coal (Fiji only) | 30.1 | 27.3 |
| Charcoal | 30.0 | 27.2 |
| Fuelwood/Woodwaste (40% mcwb) ¹ | 10.8 | 9.8 |
| Fuelwood/Woodwaste (13% mcwb) ² | 17.1 | 15.5 |
| Coconut Palm Wood | 11.5 | 10.4 |
| Coconut Residues ³ : | | |
| Shell (15% mcwb harvested) | 14.6 | 13.2 |
| Husk (30% mcwb harvested) | 12.0 | 10.9 |
| Average (air dry shell and husk) ⁴ | 14.0 | 12.7 |
| Palm Oil Residues: | | |
| Shell | 17.5 | 15.9 |
| Fibre | 12.5 | 11.3 |
| Average | 15.0 | 13.6 |
| Empty Bunches | 7.5 | 6.8 |
| Bagasse | 9.7 | 8.7 |

1. Typical moisture content of undried sawmill residue and timber merchant fuelwood.
2. Typical moisture content of air dried fuelwood and residue.
3. Average yield of 2.93 air dry tonnes of residue per tonne of copra produced.
4. Proportion: kernel 33%, shell 23 % and husk 44% by dry weight.

4. Gaseous Fuels

| | Megajoules per Cubic Metre | Megajoules per Cubic Foot |
|-------------|----------------------------------|---------------------------------|
| Natural Gas | 39.0 | 1.1 |
| Methane | 37.7 | 1.1 |

* Approximate figures at 15°C.

5. Electricity

| | Megajoules per kWh |
|-------------|-----------------------|
| Electricity | 3.6 |

Sources for the above tables:

- regional specifications.
- Department of Primary Industries and Energy, Australia.
- World Bank PREA reports 1992.
- Energy Data and Conversion Factors (New Zealand Energy R&D Committee 1984).

Compiled from the Petroleum Economist and the Steinmuller 'Pocket Book', based on the international system of units (SI). Factors are either exact or correct to six significant figures.

| | <u>Area</u> |
|-------------------------------|---|
| <u>Length</u> | |
| 1 inch | 1 square inch = 645.16 square millimetres (mm ²) |
| = 25.4 millimetres (mm) | |
| 1 foot | 1 square foot = 0.0929030 square metres (m ²) |
| = 12 inches (") | |
| = 0.333333 yard | |
| = 0.3048 metre (m) | 1 square yard = 9 square feet = 0.836127 square metres (m ²) |
| 1 yard | |
| = 36 inches (") | 1 square metre = 10.7639 square feet (squ.ft) = 1.19599 square yards |
| = 3 feet (') | |
| = 0.9144 metre (m) | |
| 1 metre | 1 acre = 4,840 square yards = 4,046.86 square metres (m ²) = 0.404686 hectares |
| = 39.3701 inches (") | |
| = 3.28084 feet (') | |
| = 1.09361 yards | |
| = 0.001 kilometre (km) | 1 hectare = 10,000 square metres (m ²) = 2.47105 acres = 0.01 square kilometres (km ²) |
| 1 kilometre | |
| = 1,000 metres (m) | |
| = 0.621371 mile | |
| 1 mile | 1 square kilometre = 100 hectares = 0.386102 square miles |
| = 1,760 yards | |
| = 1.60934 kilometres (km) | |
| 1 international nautical mile | 1 square mile = 640 acres = 258.999 hectares = 2.58999 square kilometres (km ²) |
| = 1.85318 kilometres (km) | |
| = 1.15088 miles | |

Volume

1 cubic inch
= 16.3871 cubic centimetres (cm³)

1 pint
= 0.568261 cubic decimetres (dm³)

1 litre (l)
= 61.0238 cubic inches (cu")
= 1.75975 pints
= 1 cubic decimetre (dm³)
= 0.264170 American gallons
= 0.219969 Imperial gallons
= 0.0353147 cubic feet (cu ft)

1 hectolitre
= 100 litres

1 American gallon
= 231 cubic inches (cu")
= 3.78544 litres (l)
= 0.832679 Imperial gallons
= 0.133681 cubic feet (cu ft)
= 0.0238095 American barrels (bbl)
= 0.00378544 cubic metres (m³)

1 Imperial gallon
= 277.42 cubic inches (cu")
= 4.54609 litres (l)
= 1.20094 American gallons
= 0.160544 cubic feet (cu ft)
= 0.0286355 American barrels (bbl)
= 0.00454609 cubic metres (m³)

1 cubic foot (cu ft)
= 28.3168 litres (l)
= 7.48047 American gallons
= 6.22884 Imperial gallons
= 0.178366 American barrels (bbl)
= 0.0283168 cubic metres (m³)

1 American barrel (bbl)
= 9,687.95 cubic inches (cu")
= 158.757 litres (l)
= 42 American gallons
= 34.9725 Imperial gallons
= 5.60645 cubic feet (cu')
= 0.158757 cubic metres (m³)

1 cubic metre
= 1,000 litres (l)
= 264.170 American gallons
= 219.969 Imperial gallons
= 6.29894 American barrels (bbl)
= 35.3147 cubic feet (cu ft)

1 kilolitre (kl)
= 1,000 litres (l)
= 6.29894 American barrels (bbl)

1 gross ton (shipping)
= 2.83168 cubic metres or 100 cubic feet
of permanently enclosed space

Mass

1 ounce (ozs)
= 28.3495 grams (g)

1 pound
= 0.453592 kilograms (kg)
= 0.00892857 hundredweight

1 kilogram (kg)
= 2.20462 pounds (lbs)
= 0.001 tonne (te)

1 hundredweight
= 112 pounds (lbs)

= 50.8023 kilograms (kg)

1 American (short) ton

= 2,000 pounds (lbs)

= 0.892857 long tons

= 0.907185 tonnes (te)

1 Imperial (long) ton

= 2,240 pounds (lbs)

= 1.12 short tons

= 1.01605 tonnes (te)

1 tonne (te)

= 2,204.62 pounds (lbs)

= 1,000 kilograms (kg)

= 1.10231 short tons

= 0.984206 long tons

Energy and Power

1 international table (IT) calorie

= 4.1868 joules (J)

1 megacalorie (IT)

= 1,000,000 calories

= 3968.32 British thermal units (BTU)

= 1163 watt hours (Wh)

= 4.1868 megajoules (MJ)

1 joule (J)

= 0.238846 calories (IT)

1 megajoule (MJ)

= 1,000,000 joules (J)

= 947.817 British thermal units (BTU)

= 277.778 watt hours (Wh)

= 238,846 calories (IT)

= 0.0238846 kilograms of oil equivalent

1 kilogram of oil equivalent (koe)

= 41.868 megajoules (MJ)

= 10 megacalories

1 tonne of oil equivalent (toe)

= 41.868 gigajoules (GJ)

= 10 gigacalories

1 kilowatt hour (kWh)

= 3,412.14 British thermal units (BTU)

= 859.845 kilocalories (IT)

= 3.6 megajoules (MJ)

= 1.34102 horsepower hours

1 metric horsepower (Pferdesaerke or Cheval
Vapeur)

= 735.499 watts (W)

= 542.476 foot pounds force/second

= 0.986320 Imperial horsepower

1 Imperial horsepower

= 745.700 watts (W)

= 550 foot pounds force/second

= 1.01388 metric horsepower

1 kilowatt (kW)

= 737.562 foot pounds force/second

= 1.35962 metric horsepower

= 1.34102 Imperial horsepower

ANNEX 2 SHORT CUTS AND ASSUMPTIONS

2. Short Cuts and Assumptions

This end-use sector disaggregation is assisted by the fact that, for most FICs, some fuels will be consumed in only one or two end-use sectors. Consequently, valid assumptions can be made regarding the end-use picture for those fuels. The database reports and the survey forms reflect these assumptions.

The assumptions are based on the equation:

$$\text{Total supply/sales} = \text{demand in end-use sector A} + \text{demand in end-use sector B} + \dots\dots\dots$$

Consequently, if data for total supply and data for sales to end-use sectors B, C, etc, are known, then demand in sector A can be derived. For example:

- **Total sales of Aviation Gasoline (Av Gas) = Demand in Domestic Air Transport sector.** Consumption of Av Gas for International Air Transport is likely to be negligible.
- **Total sales of DPK = Demand in International Air Transport + Demand in Domestic Air Transport + Demand in Community/Social Services + Demand in Residential.** Demand for DPK in other sectors is likely to be negligible.
- **Total sales of LPG = Demand in Hotels/Restaurants + Demand in Community/Social Services + Demand in Residential.** Demand for LPG in other sectors is likely to be negligible.
- **Total sales of Motor Gasoline = Demand in Agriculture/Forestry/Fishing + Demand in Road Transport + Demand in Community/Social Services + Demand in Residential.** Demand in other sectors is likely to be negligible.
- **Total Biomass supply/demand = Demand in specific Agro-industries + Demand in Community/Social Services + imputed Demand in Residential.** Demand in other sectors is likely to be negligible.
- **Total Solar Hot Water Heater supply/demand = imputed contribution of total number of panels in Hotels/Restaurants + Community/Social Services + Residential.** Demand in other sectors is likely to be negligible.

- **Total Solar Photovoltaic supply/demand = imputed contribution of total number of panels in Community/Social Services + Residential.** Demand in other sectors is likely to be negligible.

While the above assumptions (and others) will apply to most FICs, it is essential that they be examined for their validity on an individual country basis

- a check list of fuels and their likely end-use sectors in which they are consumed is on the following pages for your consideration and review.

Petroleum

| Fuel | End-Use Sectors | Relevant for you? |
|------------------------------------|---|-------------------|
| Automotive Diesel Oil (ADO) | Agriculture | |
| | Forestry and Logging | |
| | Fishing and Fish Farming | |
| | Mining and Quarrying | |
| | Manufacturing - all subsectors | |
| | Electricity Generation | |
| | Water and Sewerage | |
| | Construction | |
| | Road Transport | |
| | Rail Transport | |
| | Sea Transport | |
| | Communication | |
| | Wholesale/Retail Trade and Hotels and Restaurants | |
| | Community, Social and Personal Services | |
| | Residential | |
| | | |
| Aviation Gasoline | International Air Transport | |
| | Domestic Air Transport | |
| | | |
| Benzine | Community, Social and Personal Services | |
| | Residential | |
| | | |
| Bitumen | Bitumen, Lubricants & Solvents | |
| | | |
| Crude Oil (PNG only) | Manufacturing | |
| | Electricity Generation | |

| Fuel | End-Use Sectors | Relevant for you? |
|--------------------------------------|---|-------------------|
| Dual Purpose Kerosene (DPK) | International Air Transport | |
| | Domestic Air Transport | |
| | Community, Social and Personal Services | |
| | Residential | |
| Ethanol (PNG only) | Road Transport | |
| Fuel Oil (FO) | Manufacturing | |
| | Electricity Generation | |
| | Sea Transport | |
| | Community, Social and Personal Services | |
| Industrial Diesel Oil (IDO) | Manufacturing | |
| | Electricity Generation | |
| | Sea Transport | |
| | Community, Social and Personal Services | |
| Liquefied Petroleum Gas (LPG) | Manufacturing | |
| | Wholesale/Retail Trade and Hotels and Restaurants | |
| | Communication | |
| | Finance, Insurance, Real Estate and Business Services | |
| | Community, Social and Personal Services | |
| | Residential | |
| Lubricants and Greases | Bitumen, Lubricants & Solvents | |

| Fuel | End-Use Sectors | Relevant for you? |
|--|---|-------------------|
| Motor Gasoline (Mogas, Petrol) | Fishing and Fish Farming | |
| | Road Transport | |
| | Community, Social and Personal Services | |
| | Residential | |
| Regular Motor Gasoline (FSM only) | Fishing and Fish Farming | |
| | Road Transport | |
| | Community, Social and Personal Services | |
| | Residential | |
| Super Motor Gasoline (FSM only) | Road Transport | |
| Pre-Mix (2 stroke gasoline) | Fishing and Fish Farming | |
| | Road Transport | |
| | Community, Social and Personal Services | |
| | Residential | |
| Solvents | Bitumen, Lubricants & Solvents | |

New and Renewable Sources of Energy (NRSE)

| Fuel | End-Use Sectors | Relevant for you? |
|-------------------------------------|---|-------------------|
| Bagasse (sugar cane residue) | Electricity Generation (co-gen.) | |
| Coconut Wood and Residues | Agriculture | |
| | Manufacturing | |
| | Community, Social and Personal Services | |
| | Residential | |
| Fuelwood and Woodwaste | Agriculture | |
| | Manufacturing | |
| | Electricity Generation (co-gen.) | |
| | Community, Social and Personal Services | |
| | Residential | |
| Oil Palm Residues | Electricity Generation (co-gen.) | |
| Solar Photovoltaics (PVs) | Communication | |
| | Community and Social Services (including Street Lighting) | |
| | Residential | |
| Solar Hot Water | Wholesale/Retail Trade and Hotels and Restaurants | |
| | Community, Social and Personal Services | |
| | Residential | |
| Black Coal | | |
| Fuel | End-Use Sectors | Relevant for you? |
| Black Coal (export thermal) | Manufacturing - all subsectors | |

Natural Gas

| Fuel | End-Use Sectors | Relevant for you? |
|------|-----------------|-------------------|
|------|-----------------|-------------------|

| | | |
|-------------|------------------------|--|
| Natural Gas | Electricity Generation | |
|-------------|------------------------|--|

Electricity

| Fuel | End-Use Sectors | Relevant for you? |
|------|-----------------|-------------------|
|------|-----------------|-------------------|

| | | |
|-------------|---|--|
| Electricity | Agriculture | |
| | Forestry and Logging | |
| | Fishing and Fish Farming | |
| | Mining and Quarrying | |
| | Manufacturing | |
| | Electricity Generation | |
| | Water and Sewerage | |
| | Construction | |
| | Wholesale/Retail Trade and Hotels and Restaurants | |
| | Storage and Communication | |
| | Finance, Insurance, Real Estate and Business Services | |
| | Community, Social and Personal Services | |
| | Street Lighting | |
| | Residential | |

Co-generation Heat

| Fuel | End-Use Sectors | Relevant for you? |
|------|-----------------|-------------------|
|------|-----------------|-------------------|

| | | |
|--------------------|--------------------|--|
| Co-generation Heat | Manufacturing | |
| | Water and Sewerage | |

ANNEX 3

**REGIONAL STANDARD INDUSTRIAL
CLASSIFICATIONS**

Regional Standard Industrial Classification (RSIC)

Division Sub-division Group Sub-group

A (0000)

0100

Agriculture, Forestry, Fishing and Hunting

Agriculture (includes cleaning and processing when done on site. Further processing is part of 'Div. C: Manufacturing')

0110

Sugar cane growing

0120

Coconut growing

0130

Rice growing

0140

Oil palm growing

0150

Tobacco growing and curing

0160

Fruit, vegetables and other crops growing

0170

Poultry and egg production

0180

Milk and cream production

0190

Other livestock production

0200

Services to agriculture

0300

Forestry and logging (excludes sawmilling which is part of 'Div.C - Manufacturing')

0310

Forestry except logging

0320

Logging

0400

Fishing and fish farming

0500

Hunting

0600

Subsistence agriculture, fishing and hunting

B (1000)

1100

Mining and Quarrying

Metallic ore mining and beneficiation

1200

Coal mining

1300

Oil and gas extraction

1400

Construction material quarrying

1500

Other mining and quarrying nec

1600

Geological and prospecting activities

C (2000)

2100

Manufacturing

Food, beverages and tobacco

2110

Foods (includes animal feeds)

2111

Meat products

2112

Dairy products

2113

Fruit and vegetable products

2114

Fish and marine food products

2115

Margarine and oils/fats nec

2116

Grain mill and cereal food products

2117

Bakery products

2118

Sugar refining and products

2119

Other food products nec

2120

Beverages

2121

Spirits and wines

2122

Beer and stout

2123

Cordials and carbonated drinks

2130

Tobacco products

2200

Textiles, clothing and footwear

2210

Textiles

2220

Clothing

2230

Footwear

2240

Leather goods except footwear

2300

Wood, wood products, cane and furniture

2310

Wood and cane products except furniture

2311

Sawmilling and other wood milling

2312

Wooden and cane containers

2313

Wood and cane products nec

Division Sub-division Group Sub-group

| | | |
|-----------------|------|--|
| | 2320 | Furniture and fixtures, primarily of wood |
| 2400 | | Paper, paper products and printing/publishing |
| | 2410 | Paper, paper products and paperboard |
| | 2420 | Printing, publishing and allied industries |
| 2500 | | Chemical, petroleum, coal, rubber and plastics |
| | 2510 | Chemicals and chemical products |
| | 2511 | Industrial chemicals |
| | 2512 | Paints, varnishes and lacquers |
| | 2513 | Soaps, cosmetics and toilet preparations |
| | 2514 | Chemicals products nec |
| | 2520 | Petroleum refining |
| | 2530 | Petroleum and coal products nec |
| | 2540 | Rubber products |
| | 2550 | Plastic products |
| 2600 | | Non-metallic mineral products |
| | 2610 | Glass and glass products |
| | 2620 | Clay products and refractories |
| | 2630 | Cement and cement products |
| | 2640 | Other non-metallic mineral products |
| 2700 | | Basic metal products |
| | 2710 | Basic iron and steel |
| | 2720 | Basic non-ferrous metals |
| | 2730 | Casting of metals |
| 2800 | | Fabricated metal products, machinery and equipment |
| | 2810 | Fabricated metal products except machinery and equipment |
| | 2811 | Furniture and fixtures primarily of metal |
| | 2812 | Structural metal products |
| | 2813 | Fabricated metal products except machinery/equipment nec |
| | 2820 | Machinery and equipment except electrical (includes manufacture and repair) |
| | 2821 | Agricultural machinery and equipment |
| | 2822 | Machinery and equipment nec |
| | 2830 | Electrical machinery, equipment and appliances (includes manufacture and repair) |
| | 2840 | Transport equipment (includes manufacture and repair) |
| | 2841 | Ship building and repair |
| | 2842 | Transport equipment manufacture and repair nec |
| | 2850 | Professional and scientific equipment (includes manufacture and repair) |
| 2900 | | Other manufacturing |
| | 2910 | Jewellery and related articles |
| | 2920 | Manufacturing nec |
| D (3000) | | Electricity, Gas, Water and Sewerage |
| | 3100 | Electricity supply |
| | 3110 | Public electricity |
| | 3111 | Sole generator, ie produces electricity only |
| | 3112 | Co-generator, ie produces electricity and process heat |
| | 3120 | Private electricity |
| | 3121 | Sole generator, ie produces electricity only |
| | 3122 | Co-generator, ie produces electricity and process heat |
| | 3200 | Gas reticulation |
| | 3300 | Water treatment and supply (including water distillation) |
| | 3400 | Sewerage collection, treatment and disposal |

Division Sub-division Group Sub-group

E (3500)

Construction

3510 Building construction, repair and demolition
3520 Other construction

F (4000)

Wholesale/Retail Trade and Restaurants/Hotels

4100 Wholesale trade
4200 Retail trade
4300 Restaurants/bars and hotels/lodging
4310 Restaurants, cafes, bars and clubs
4320 Hotels, resorts and lodging

G (5000)

Transport, Storage and Communication

5100 Transport
5110 Road transport includes all public and private road transport
5111 Bus transport
5112 Taxi transport
5113 Road freight transport
5114 Personal vehicle transport
5115 Road transport nec
5120 Rail transport includes all public and private rail transport
5130 Water transport, includes all public and private water transport
5131 Sea cruises and tours
5132 Ocean, coastal and inland water transport
5133 Salvage, towing and stevedoring services
5140 Air transport, includes all public and private air transport
5141 International air transport
5142 Domestic air transport
5200 Warehousing, cargo handling and services allied to transport
5300 Communication services includes post, telecommunications, etc

H (6000)

Finance, Insurance, Real Estate and Business Services

6100 Banking, finance and investment services
6200 Insurance services
6300 Real estate and business services

I (7000)

Community, Social and Personal Services

7100 Public administration, public order and defence
7110 Central and local government administration services
7120 Public order and safety
7130 Defence
7200 Street lighting
7300 Sanitation, pest control and similar services
7400 Social and community related services
7410 Education and education services
7411 Schools and general education
7412 Technical, vocational, commercial and tertiary education
7413 Education services nec
7420 Medical, dental, veterinary and other health services nec
7430 Welfare institutions and services (includes orphanages, old peoples homes, Salvation Army, Red Cross, etc)
7440 Business, professional and labour associations

Division Sub-division Group Sub-group

| | | | |
|-----------------|--|-------------|---|
| | | 7450 | Religious, social and community services nec (includes churches, temples, youth organisations (Scouts, YMCS, YWCA, etc) |
| | | 7500 | Recreational, cultural and sporting services (includes cinemas, television/radio stations, libraries, museums, sporting clubs and associations) |
| | | 7600 | Personal and household services nec |
| | | 7700 | International and extra-territorial agencies |
| J (8000) | | | Residential |
| | | 8100 | Urban residential |
| | | 8200 | Rural residential |
| K (9000) | | | Solvents, Lubricants and Bitumen |

nec = not elsewhere classified.

ANNEX 4 ABBREVIATIONS USED

Abbreviations Used

- **New and Renewables Sources of Energy (NRSE)**
 - BGSE – bagasse (sugarcane residue)
 - COCO – coconut wood and residue
 - PALM – oil palm residue
 - PV – solar photovoltaics
 - WATR – solar water heater
 - WOOD – fuelwood and woodwaste
 - Totl – Total

- **Petroleum (Petrleum)**
 - ADO – automotive diesel oil
 - AVGAS – aviation gasoline
 - BTMN – bitumen
 - BNZE – white benzene
 - DPK – dual purpose kerosene
 - FO – fuel oil
 - IDO – industrial diesel oil
 - LPG – liquefied petroleum gas
 - LUBE – lubricants and greases
 - MOGS – mogas, motor spirit, petrol
 - SOLV – solvents
 - SUPR – super mogas

- **Electricity (POWER)**
 - ADOE – automotive diesel oil / reciprocating engine
 - ADOT – automotive diesel oil / gas turbine engine
 - FOB – fuel oil / boiler
 - FOE – fuel oil / reciprocating engine
 - IDOE – industrial diesel oil / reciprocating engine
 - ROR – run-of-river / hydro
 - STR - storage engine
 - PRIV – private self generator
 - RURL – government rural generator
 - UTLY – utility

ANNEX 5 FACTORS WORKBOOK

| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|

Economic/Demographic Indicators

GDP (current prices)
 GDP (constant prices)
 GDP per capita
 GDP growth of near large neighbour
 Inflation rate (%)
 Deflator
 Exchange rate (local/\$US)
 Disposable Income

GDP by Sector (Constant Prices):
 Agriculture, Forestry and Fishing
 Mining and Quarrying
 Manufacturing
 Electricity Generation
 Water and Sewerage
 Construction
 Wholesale/Retail Trade and Recreation
 Transport, Storage and Communication
 Finance and Insurance
 Real Estate and Other Services
 Community and Social services

Value of Total Imports
 Value of Total Exports
 Imports/Exports
 Imports/GDP
 Exports/GDP
 Trade Deficit
 Balance of Payments

Population
 % Urban, % Rural
 Number of Households
 % Urban, % Rural
 Population in Wage & Salary Employment

| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|

Government Budget
 Government Revenue
 % Locally generated
 Overseas Development Assistance
 ODA as % GDP
 ODA as % annual Budget
 ODA per capita

Role of Energy Imports

Value of Total Energy Imports
 Value of Total Energy Exports
 Energy Trade Deficit
 Energy Imports Dependency (%)*

Value of Petroleum Imports
 Volume of Petroleum Imports
 Average Wholesale Price per Litre
 Average Marker Crude Price
 Average Wholesale Price/Average Crude Price

Petroleum Imports/Total Imports (%)
 Petroleum Imports/Total Exports (%)
 Petroleum Imports/Government Budget (%)
 Petroleum Imports/ODA (%)

Retail Energy Prices (Current Prices)

Petroleum (Current Prices/litre):
 Automotive Diesel (ADO)
 Motor Gasoline (Mogas/Petrol)
 Kerosene (DPK)
 Liquefied Petroleum Gas (LPG)

* 'Energy Imports Dependency' = (Energy Imports - Re-exports - Stocks Change) / Total Energy Consumption

| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|

Electricity (Current Prices/kWh):
 Industrial
 Commercial
 Residential - urban
 - rural
 Government
 Street Lighting
 Average Price, i.e. Sales(\$)/Sales(kWh)

Firewood

Selected Projections

| 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|

GDP (constant prices)
 GDP per capita
 GDP growth of near large neighbour
 Disposable Income

GDP by Sector (Constant Prices):
 Agriculture, Forestry and Fishing
 Mining and Quarrying
 Manufacturing
 Electricity Generation
 Water and Sewerage
 Construction
 Wholesale/Retail Trade and Recreation
 Transport, Storage and Communication
 Finance and Insurance
 Real Estate and Other Services
 Community and Social services

Population
 % Urban, % Rural
 Number of Households
 % Urban, % Rural
 Population in Wage & Salary Employment

ANNEX 6 NEW AND RENEWABLES WORKBOOK

Palau New and Renewable Sources of Energy Supply and Demand

Location: Palau
 Product: Total New and Renewable Sources of Energy

Production = total Consumption by End-use Sectors

| Year | Production = Total Consumption (GJ) | Consumption by End-use Sectors | | | | | | |
|------|-------------------------------------|--|--------------------|-----------------------------|--|----------------------------------|------------------------------------|------------------|
| | | Agriculture, Forestry and Fishing (GJ) | Manufacturing (GJ) | Electricity Generation (GJ) | Wholesale/Retail Trade and Recreation (GJ) | Transport and Communication (GJ) | Community and Social Services (GJ) | Residential (GJ) |
| 1994 | 198,041 | 22,500 | 20,200 | | 73 | 7 | 28,280 | 126,980 |
| 1995 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 2003 | 198,041 | 22,500 | 20,200 | | 73 | 7 | 28,280 | 126,980 |

NOTE: Production = Total Consumption. For the purpose of this table, 'Production' = the aggregate of 'Consumption by End-use Sectors'.

Palau New and Renewable Sources of Energy Supply and Demand

| | |
|-----------|----------------------|
| Location: | Palau |
| Product: | Fuelwood & Woodwaste |

Production = total Consumption by End-use Sectors

| Year | Production | | Consumption by End-use Sectors | | | | | | |
|------|------------|---------|---|---|-------------------------------|--------|-------|--------|------|
| | (tons) | (GJ) | Agriculture, Forestry and Fishery (includes produce drying) | Manufacturing (includes sawmills, oil processing, etc.) | Community and Social Services | (tons) | (GJ) | (tons) | (GJ) |
| 1994 | 7,500 | 104,850 | 1,000 | 9,800 | 1,000 | 9,800 | 1,000 | 15,500 | 0 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 7,500 | 104,850 | 1,000 | 9,800 | 1,000 | 9,800 | 1,000 | 15,500 | 0 |

Consumption by End-use Sectors (continued)

| Year | Consumption by End-use Sectors (continued) | | | | | | | | | | |
|---|--|--------------------------------|------------------------------|---|-------------------------|--------------------------------|------------------------------|--------|-------|--------|-------------------------------|
| | Urban Residential | | | | | Rural Residential | | | | | Total Residential Consumption |
| ave. consumed per household (lbs/HH/yr) | no. of urban households | total urban consumption (tons) | total urban consumption (GJ) | ave. consumed per household (lbs/HH/yr) | no. of rural households | total rural consumption (tons) | total rural consumption (GJ) | (tons) | (GJ) | (tons) | (GJ) |
| 1994 | 1,000 | 3,000 | 3,000 | 46,500 | 1,500 | 1,000 | 1,500 | 23,250 | 4,500 | 69,750 | 0 |
| 1995 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 1996 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 1997 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 1998 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 1999 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 2000 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 2001 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 2002 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1,000 | 3,000 | 3,000 | 46,500 | 1,500 | 1,000 | 1,500 | 23,250 | 4,500 | 69,750 | 0 |

NOTE: Production = Total Consumption. For the purpose of this table, 'Production' = the aggregate of 'Consumption by End-use Sectors'.

Manufacturing = includes the processing and manufacture of coconut/palm oils, sawn timber, etc.

The energy equivalence is assumed to be = 'Manufacturing' and 'Agriculture, Forestry': 10.8 GJ/tonne. For all other sectors: 17.1 GJ/tonne.

Palau New and Renewable Sources of Energy Supply and Demand

| | |
|-----------|------------------------|
| Location: | Palau |
| Product: | Coconut Wood & Residue |

Production = total Consumption by End-use Sectors

| Year | Production | | Consumption by End-use Sectors | | | | | |
|------|---------------------|--------|--------------------------------|--------|--|--------|-------------------------------|--------|
| | (tons) | (GJ) | (tons) | (GJ) | (tons) | (GJ) | (tons) | (GJ) |
| | = Total Consumption | | (Includes produce drying) | | Manufacturing (includes sawmills, oil processing, etc) | | Community and Social Services | |
| 1994 | 7,500 | 92,950 | 1,000 | 12,700 | 1,000 | 10,400 | 1,000 | 12,700 |
| 1995 | 0 | 0 | | 0 | | 0 | | 0 |
| 1996 | 0 | 0 | | 0 | | 0 | | 0 |
| 1997 | 0 | 0 | | 0 | | 0 | | 0 |
| 1998 | 0 | 0 | | 0 | | 0 | | 0 |
| 1999 | 0 | 0 | | 0 | | 0 | | 0 |
| 2000 | 0 | 0 | | 0 | | 0 | | 0 |
| 2001 | 0 | 0 | | 0 | | 0 | | 0 |
| 2002 | 0 | 0 | | 0 | | 0 | | 0 |
| 2003 | 7,500 | 92,950 | 1,000 | 12,700 | 1,000 | 10,400 | 1,000 | 12,700 |

Consumption by End-use Sectors (continued)

| Year | Consumption by End-use Sectors (continued) | | | | | | | | | | | |
|------|--|-------------------------|--------------------------------|---|-------------------------|--------------------------------|------------------------------|--------|-------|--------|-------------------------------|--|
| | Urban Residential | | | | | Rural Residential | | | | | Total Residential Consumption | |
| | ave. consumed per household (lbs/HH/yr) | no. of urban households | total urban consumption (tons) | ave. consumed per household (lbs/HH/yr) | no. of rural households | total rural consumption (tons) | total rural consumption (GJ) | (tons) | (GJ) | (tons) | (GJ) | |
| 1994 | 1,000 | 3,000 | 3,000 | 38,100 | 1,500 | 1,000 | 1,500 | 19,050 | 4,500 | 57,150 | | |
| 1995 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 1996 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 1997 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 1998 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 1999 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 2000 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 2001 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 2002 | | | 0 | 0 | | | 0 | 0 | 0 | 0 | | |
| 2003 | 1,000 | 3,000 | 3,000 | 38,100 | 1,500 | 1,000 | 1,500 | 19,050 | 4,500 | 57,150 | | |

NOTE: Production = Total Consumption. For the purpose of this table, 'Production' = the aggregate of 'Consumption by End-use Sectors'.

Manufacturing = includes the processing and manufacture of coconut/palm oils, sawn timber, etc.

The energy equivalence is assumed to be = Manufacturing: 11.5 GJ/tonne. For all other end-use sectors: 14.0 GJ/tonne.

ANNEX 7 **TOTAL PETROLEUM PRODUCT, GAS & OIL
COMPANIES WORKBOOKS**

Petroleum Company Annual Supply and Sales

Company: Belau Gas
 Petroleum Product: Liquefied Petroleum Gas (LPG)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 20,000 | | | | 0 | 5,000 | 5,000 | 15,000 | 5,000 | 20,000 |
| 1995 | | | | | 5,000 | | -5,000 | 5,000 | -5,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 20,000 | | | | 0 | 5,000 | 5,000 | 15,000 | 5,000 | 20,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000 gals}) | Sales to Resellers (^{'000 gals}) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | | | |
|------|---|---|---|--|--|---|---|---|--------|
| | | | Manufacturing (^{'000 gals}) | Retail Trade and Recreation (^{'000 gals}) | Wholesale/ Transport and Communication (^{'000 gals}) | Finance and Business Services (^{'000 gals}) | Community and Social Services (^{'000 gals}) | Residential (^{'000 gals}) | |
| 1994 | 20,000 | | 5,000 | | | | | | 10,000 |
| 1995 | 0 | | | | | | | | |
| 1996 | 0 | | | | | | | | |
| 1997 | 0 | | | | | | | | |
| 1998 | 0 | | | | | | | | |
| 1999 | 0 | | | | | | | | |
| 2000 | 0 | | | | | | | | |
| 2001 | 0 | | | | | | | | |
| 2002 | 0 | | | | | | | | |
| 2003 | 20,000 | | 5,000 | | | | | | 10,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil suppliers' depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Construction Contractors, Palau
 Petroleum Product: Bitumen

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports ('000 gals) | Re-exports ('000 gals) | Inter-company/inter-company | | Stock Level | | Calculated Sales ('000 gals) | +/- Statistical Discrepancy ('000 gals) | Actual Sales ('000 gals) |
|------|-------------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-------------------------------|-------------------------------------|--|---------------------------------|
| | | | Receipts ('000 gals) | Transfers ('000 gals) | at 1 January ('000 gals) | t 31 December ('000 gals) | | | |
| 1994 | 10,000 | | | | 0 | 0 | 10,000 | 0 | 10,000 |
| 1995 | | | | | 0 | | 0 | 0 | |
| 1996 | | | | | 0 | | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | | | 0 | 0 | 10,000 | 0 | 10,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.
 Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).
 Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales = Consumption by End-users

| Year | Actual Sales = Consumption | |
|------|--------------------------------------|--|
| | Total Consumption ('000 gals) | Solvents, Lubricants and Bitumen ('000 gals) |
| 1994 | 10,000 | 10,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 10,000 | 10,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the company's depot use and losses.

Petroleum Company Annual Supply and Sales

Company: Mobil Oil, Palau
 Petroleum Product: All Petroleum Products

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | Inter-company Receipts (^{'000} gals) | Inter-company Transfers (^{'000} gals) | Stock Level | | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|---|---|---|---|--|---|--|
| | | | | | at 1 January (^{'000} gals) | at 31 December (^{'000} gals) | Stock change (^{'000} gals) | | | |
| 1994 | 46,000 | 0 | 0 | 3,000 | 3,000 | 11,000 | 8,000 | 35,000 | 7,000 | 42,000 |
| 1995 | 0 | 0 | 0 | 0 | 11,000 | 0 | -11,000 | 11,000 | -11,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 3,000 | 3,000 | -3,000 | 3,000 | 0 |
| 2003 | 46,000 | 0 | 0 | 3,000 | 3,000 | 11,000 | 8,000 | 35,000 | 7,000 | 42,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users (next page)

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000} gals) | Sales to Resellers (^{'000} gals) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | | | | | | |
|------|--|--|---|--|--|---|--|---|---|---|--|---------------------------------|
| | | | Agriculture, Forestry and Fishing (^{'000} gals) | Mining and Quarrying (^{'000} gals) | Manufacturing (^{'000} gals) | Electricity Generation* (^{'000} gals) | Water and Sewerage (^{'000} gals) | Construction (^{'000} gals) | Wholesale/ Retail Trade and Recreation (^{'000} gals) | Transport and Communication | | |
| | | | | | | | | | | International Air (^{'000} gals) | Domestic Air (^{'000} gals) | Rail (^{'000} gals) |
| 1994 | 42,000 | 29,000 | 0 | 0 | 0 | 1,000 | 0 | 0 | 1,000 | 0 | 4,000 | 0 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 42,000 | 29,000 | 0 | 0 | 0 | 1,000 | 0 | 0 | 1,000 | 0 | 4,000 | 0 |

Company Sales to Resellers and End-users (continued)

| Year | Sales to End-users (continued) [Note: this is only a guide to actual end-use consumption] | | | | | | |
|------|---|--------------------------------|--|--|--|--|---|
| | Transport and Communication | | | Finance and Business Services (^{'000} gals) | Community and Social Services (^{'000} gals) | Residential (^{'000} gals) | Solvents, Lubricants and Bitumen (^{'000} gals) |
| | Road (^{'000} gals) | Sea (^{'000} gals) | Communication (^{'000} gals) | | | | |
| 1994 | 0 | 0 | 0 | 0 | 0 | 7,000 | |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 0 | 0 | 0 | 0 | 0 | 7,000 | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation'). * Amount shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Petroleum Company Annual Supply and Sales

Company: **Mobil Oil Micronesia**
 Petroleum Product: **Automotive Diesel Oil (ADO)**

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|---|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | | 1,000 | 0 | 1,000 | 1,000 | 8,000 | 2,000 | 10,000 |
| 1995 | | | | | 1,000 | | -1,000 | 1,000 | -1,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | | 1,000 | 0 | 1,000 | 1,000 | 8,000 | 2,000 | 10,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000 gals}) | Sales to Resellers (^{'000 gals}) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | | | | | | | |
|------|---|---|---|---|---|--|---|--|--|----------------------------------|----------------------------------|---------------------------------|--|
| | | | Agriculture, Forestry and Fishing (^{'000 gals}) | Mining and Quarrying (^{'000 gals}) | Manufacturing (^{'000 gals}) | Electricity Generation* (^{'000 gals}) | Water and Sewerage (^{'000 gals}) | Construction (^{'000 gals}) | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication | | | |
| | | | | | | | | | | Rail (^{'000 gals}) | Road (^{'000 gals}) | Sea (^{'000 gals}) | |
| 1994 | 10,000 | 9,000 | | | | 1,000 | | | | | | | |
| 1995 | 0 | | | | | | | | | | | | |
| 1996 | 0 | | | | | | | | | | | | |
| 1997 | 0 | | | | | | | | | | | | |
| 1998 | 0 | | | | | | | | | | | | |
| 1999 | 0 | | | | | | | | | | | | |
| 2000 | 0 | | | | | | | | | | | | |
| 2001 | 0 | | | | | | | | | | | | |
| 2002 | 0 | | | | | | | | | | | | |
| 2003 | 10,000 | 9,000 | | | | 1,000 | | | | | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation'). * ADO shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Petroleum Company Annual Supply and Sales

Company: Mobil Oil Micronesia
 Petroleum Product: Aviation Gasoline (Avgas)

Company Imports, Re-exports, Inter-company/depot Transactions (Incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | | | 0 | 5,000 | 5,000 | 5,000 | 0 | 5,000 |
| 1995 | | | | | 5,000 | | -5,000 | 5,000 | -5,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | | | 0 | 5,000 | 5,000 | 5,000 | 0 | 5,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000 gals}) | Sales to Resellers (^{'000 gals}) | Sales to End-users (Note: this is only a guide to actual end-use consumption) | | |
|------|---|---|---|--|---|
| | | | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication | |
| | | | | International Air (^{'000 gals}) | Domestic Air (^{'000 gals}) |
| 1994 | 5,000 | | 1,000 | | 4,000 |
| 1995 | 0 | | | | |
| 1996 | 0 | | | | |
| 1997 | 0 | | | | |
| 1998 | 0 | | | | |
| 1999 | 0 | | | | |
| 2000 | 0 | | | | |
| 2001 | 0 | | | | |
| 2002 | 0 | | | | |
| 2003 | 5,000 | | 1,000 | | 4,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Mobil Oil Micronesia
 Petroleum Product: Dual Purpose Kerosene (DPK/Jet A1)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (‘000 gals) | Re-exports (‘000 gals) | Inter-company Receipts (‘000 gals) | Inter-company Transfers (‘000 gals) | Stock Level | | | Calculated Sales (‘000 gals) | +/- Statistical Discrepancy (‘000 gals) | Actual Sales (‘000 gals) |
|------|------------------------|---------------------------|--|---|-----------------------------|-------------------------------|-----------------------------|------------------------------------|---|--------------------------------|
| | | | | | at 1 January (‘000 gals) | at 31 December (‘000 gals) | Stock change (‘000 gals) | | | |
| 1994 | 10,000 | | | 1,000 | 0 | 1,000 | 1,000 | 8,000 | 2,000 | 10,000 |
| 1995 | | | | | 1,000 | | -1,000 | 1,000 | -1,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | | 1,000 | 0 | 1,000 | 1,000 | 8,000 | 2,000 | 10,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (kl) | Sales to Resellers (kl) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | |
|------|-------------------------|-------------------------------|---|--|-------------------------|---|---------------------|
| | | | Wholesale/ Retail Trade and Recreation (kl) | Transport and Communicatio International Air (kl) | Domestic Air (kl) | Community and Social Services (kl) | Residential (kl) |
| 1994 | 10,000 | 10,000 | | | | | |
| 1995 | 0 | | | | | | |
| 1996 | 0 | | | | | | |
| 1997 | 0 | | | | | | |
| 1998 | 0 | | | | | | |
| 1999 | 0 | | | | | | |
| 2000 | 0 | | | | | | |
| 2001 | 0 | | | | | | |
| 2002 | 0 | | | | | | |
| 2003 | 10,000 | 10,000 | | | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Mobil Oil Micronesia
 Petroleum Product: Motor Gasoline (Mogas/Petrol)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | | 1,000 | 1,000 | 2,000 | 1,000 | 8,000 | 2,000 | 10,000 |
| 1995 | | | | | 2,000 | | -2,000 | 2,000 | -2,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 1,000 | 1,000 | -1,000 | 1,000 | |
| 2003 | 10,000 | | | 1,000 | 1,000 | 2,000 | 1,000 | 8,000 | 2,000 | 10,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (kl) | Sales to Resellers (kl) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | |
|------|-------------------------|-------------------------------|---|--|--|
| | | | Agriculture, Forestry and Fishing (kl) | Wholesale/ Retail Trade and Recreation (kl) | Transport and Communication Road (kl) |
| 1994 | 10,000 | 10,000 | | | |
| 1995 | 0 | | | | |
| 1996 | 0 | | | | |
| 1997 | 0 | | | | |
| 1998 | 0 | | | | |
| 1999 | 0 | | | | |
| 2000 | 0 | | | | |
| 2001 | 0 | | | | |
| 2002 | 0 | | | | |
| 2003 | 10,000 | 10,000 | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Mobil Oil Micronesia
 Petroleum Product: Solvents

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | Inter-company Receipts (^{'000} gals) | Inter-company Transfers (^{'000} gals) | Stock Level | | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|---|---|---|---|--|---|--|
| | | | | | at 1 January (^{'000} gals) | at 31 December (^{'000} gals) | Stock change (^{'000} gals) | | | |
| 1994 | 1,000 | | | | 2,000 | 1,000 | -1,000 | 2,000 | 1,000 | 3,000 |
| 1995 | | | | | 1,000 | | -1,000 | 1,000 | -1,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 2,000 | 2,000 | -2,000 | 2,000 | |
| 2003 | 1,000 | | | | 2,000 | 1,000 | -1,000 | 2,000 | 1,000 | 3,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales = Consumption by End-users

| Year | Actual Sales = | Consumption |
|------|---|---|
| | Total Consumption (^{'000} gals) | Solvents, Lubricants and Bitumen (^{'000} gals) |
| 1994 | 3,000 | 3,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 3,000 | 3,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the company's depot use and losses.

Petroleum Company Annual Supply and Sales

Company: **Mobil Oil Micronesia**
 Petroleum Product: **Lubricants and Greases**

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 5,000 | | | | 0 | 1,000 | 1,000 | 4,000 | 0 | 4,000 |
| 1995 | | | | | 1,000 | | -1,000 | 1,000 | -1,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 5,000 | | | | 0 | 1,000 | 1,000 | 4,000 | 0 | 4,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales = Consumption by End-users

| Year | Actual Sales = Consumption | |
|------|--|--|
| | Total Consumption (^{'000 gals}) | Solvents, Lubricants and Bitumen (^{'000 gals}) |
| 1994 | 4,000 | 4,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 4,000 | 4,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the company's depot use and losses.

Petroleum Company Annual Supply and Sales

Company: NECO Gas
 Petroleum Product: Liquefied Petroleum Gas (LPG)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports ('000 gals) | Re-exports ('000 gals) | Inter-company/depot Transactions | | Stock Level | | Calculated Sales ('000 gals) | +/- Statistical Discrepancy ('000 gals) | Actual Sales ('000 gals) |
|------|-------------------------|----------------------------|----------------------------------|---------------------------|------------------------------|--------------------------------|----------------------------------|---|------------------------------|
| | | | Receipts ('000 gals) | Transfers ('000 gals) | at 1 January ('000 gals) | at 31 December ('000 gals) | | | |
| 1994 | 1,000 | | | | 0 | 0 | 1,000 | 0 | 1,000 |
| 1995 | | | | | 0 | 0 | | 0 | |
| 1996 | | | | | 0 | 0 | | 0 | |
| 1997 | | | | | 0 | 0 | | 0 | |
| 1998 | | | | | 0 | 0 | | 0 | |
| 1999 | | | | | 0 | 0 | | 0 | |
| 2000 | | | | | 0 | 0 | | 0 | |
| 2001 | | | | | 0 | 0 | | 0 | |
| 2002 | | | | | 0 | 0 | | 0 | |
| 2003 | 1,000 | | | | 0 | 0 | 1,000 | 0 | 1,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.
 Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales ('000 gals) | Sales to Resellers ('000 gals) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | Residential ('000 gals) |
|------|------------------------------|------------------------------------|---|---|---|---|-----------------------------|
| | | | Manufacturing ('000 gals) | Retail Trade and Recreation ('000 gals) | Transport and Communication ('000 gals) | Finance and Business Services ('000 gals) | |
| 1994 | 1,000 | | | | | | 1,000 |
| 1995 | 0 | | | | | | |
| 1996 | 0 | | | | | | |
| 1997 | 0 | | | | | | |
| 1998 | 0 | | | | | | |
| 1999 | 0 | | | | | | |
| 2000 | 0 | | | | | | |
| 2001 | 0 | | | | | | |
| 2002 | 0 | | | | | | |
| 2003 | 1,000 | | | | | | 1,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil suppliers' depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Palau Equipment Co.
 Petroleum Product: Liquefied Petroleum Gas (LPG)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | Inter-company Receipts (^{'000} gals) | Inter-company/ Transfers (^{'000} gals) | Stock Level | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|--|---|--|--|---|--|
| | | | | | at 1 January (^{'000} gals) | t 31 December Stock change (^{'000} gals) | | | |
| 1994 | 1,000 | | | | 0 | 0 | 1,000 | 0 | 1,000 |
| 1995 | | | | | 0 | 0 | | 0 | |
| 1996 | | | | | 0 | 0 | | 0 | |
| 1997 | | | | | 0 | 0 | | 0 | |
| 1998 | | | | | 0 | 0 | | 0 | |
| 1999 | | | | | 0 | 0 | | 0 | |
| 2000 | | | | | 0 | 0 | | 0 | |
| 2001 | | | | | 0 | 0 | | 0 | |
| 2002 | | | | | 0 | 0 | | 0 | |
| 2003 | 1,000 | | | | 0 | 0 | 1,000 | 0 | 1,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.
 Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).
 Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000} gals) | Sales to Resellers (^{'000} gals) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | Residential (^{'000} gals) |
|------|--|--|---|---|---|--|--|
| | | | Manufacturing (^{'000} gals) | Retail Trade and Recreation (^{'000} gals) | Transport and Communication (^{'000} gals) | Finance and Business Services (^{'000} gals) | |
| 1994 | 1,000 | | | | | | 1,000 |
| 1995 | 0 | | | | | | |
| 1996 | 0 | | | | | | |
| 1997 | 0 | | | | | | |
| 1998 | 0 | | | | | | |
| 1999 | 0 | | | | | | |
| 2000 | 0 | | | | | | |
| 2001 | 0 | | | | | | |
| 2002 | 0 | | | | | | |
| 2003 | 1,000 | | | | | | 1,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil suppliers' depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Shell, Palau
 Petroleum Product: All Petroleum Products

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | Inter-company Receipts (^{'000} gals) | Inter-company Transfers (^{'000} gals) | Stock Level | | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|---|---|--|---|--|---|--|
| | | | | | at 1 January (^{'000} gals) | 31 December (^{'000} gals) | Stock change (^{'000} gals) | | | |
| 1994 | 46,000 | 0 | 3,000 | 0 | 4,000 | 21,000 | 17,000 | 32,000 | -1,000 | 31,000 |
| 1995 | 0 | 0 | 0 | 0 | 21,000 | 0 | -21,000 | 21,000 | -21,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 4,000 | 4,000 | -4,000 | 4,000 | 0 |
| 2003 | 46,000 | 0 | 3,000 | 0 | 4,000 | 21,000 | 17,000 | 32,000 | -1,000 | 31,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users (next page)

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000} gals) | Sales to Resellers (^{'000} gals) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | | | | | | |
|------|--|--|---|--|--|---|--|---|---|---|--|---------------------------------|
| | | | Agriculture, Forestry and Fishing (^{'000} gals) | Mining and Quarrying (^{'000} gals) | Manufacturing (^{'000} gals) | Electricity Generation* (^{'000} gals) | Water and Sewerage (^{'000} gals) | Construction (^{'000} gals) | Wholesale/ Retail Trade and Recreation (^{'000} gals) | Transport and Communication | | |
| | | | | | | | | | | International Air (^{'000} gals) | Domestic Air (^{'000} gals) | Rail (^{'000} gals) |
| 1994 | 31,000 | 15,000 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | 5,000 | 4,000 | 0 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 31,000 | 15,000 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | 5,000 | 4,000 | 0 |

Company Sales to Resellers and End-users (continued)

| Year | Sales to End-users (continued) [Note: this is only a guide to actual end-use consumption] | | | | | | |
|------|---|--------------------------------|--|--|--|--|---|
| | Transport and Communication | | | Finance and Business Services (^{'000} gals) | Community and Social Services (^{'000} gals) | Residential (^{'000} gals) | Solvents, Lubricants and Bitumen (^{'000} gals) |
| | Road (^{'000} gals) | Sea (^{'000} gals) | Communication (^{'000} gals) | | | | |
| 1994 | 0 | 0 | 0 | 0 | 0 | 6,000 | |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 0 | 0 | 0 | 0 | 0 | 6,000 | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation'). * Amount shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Automotive Diesel Oil (ADO)

Company Imports, Re-exports, Inter-company/depot Transactions (Incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | 1,000 | | 0 | 5,000 | 5,000 | 6,000 | -1,000 | 5,000 |
| 1995 | | | | | 5,000 | | -5,000 | 5,000 | -5,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | 1,000 | | 0 | 5,000 | 5,000 | 6,000 | -1,000 | 5,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000 gals}) | Sales to Resellers (^{'000 gals}) | Sales to End-users (Note: this is only a guide to actual end-use consumption) | | | | | | | | | | | |
|------|---|---|---|---|---|--|---|--|--|----------------------------------|----------------------------------|---------------------------------|--|--|
| | | | Agriculture, Forestry and Fishing (^{'000 gals}) | Mining and Quarrying (^{'000 gals}) | Manufacturing (^{'000 gals}) | Electricity Generation* (^{'000 gals}) | Water and Sewerage (^{'000 gals}) | Construction (^{'000 gals}) | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication | | | | |
| | | | | | | | | | | Rail (^{'000 gals}) | Road (^{'000 gals}) | Sea (^{'000 gals}) | | |
| 1994 | 5,000 | 5,000 | | | | | | | | | | | | |
| 1995 | 0 | | | | | | | | | | | | | |
| 1996 | 0 | | | | | | | | | | | | | |
| 1997 | 0 | | | | | | | | | | | | | |
| 1998 | 0 | | | | | | | | | | | | | |
| 1999 | 0 | | | | | | | | | | | | | |
| 2000 | 0 | | | | | | | | | | | | | |
| 2001 | 0 | | | | | | | | | | | | | |
| 2002 | 0 | | | | | | | | | | | | | |
| 2003 | 5,000 | 5,000 | | | | | | | | | | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation'). * ADO shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Aviation Gasoline (Avgas)

Company Imports, Re-exports, Inter-company/depot Transactions (Incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|---|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | | | 0 | 5,000 | 5,000 | 5,000 | 0 | 5,000 |
| 1995 | | | | | 5,000 | | -5,000 | 5,000 | -5,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 10,000 | | | | 0 | 5,000 | 5,000 | 5,000 | 0 | 5,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.
 Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).
 Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (^{'000 gals}) | Sales to Resellers (^{'000 gals}) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | |
|------|---|---|---|--|---|
| | | | Wholesale/transport and Communication | | |
| | | | Retail Trade and Recreation (^{'000 gals}) | International Air (^{'000 gals}) | Domestic Air (^{'000 gals}) |
| 1994 | 5,000 | | 1,000 | | 4,000 |
| 1995 | 0 | | | | |
| 1996 | 0 | | | | |
| 1997 | 0 | | | | |
| 1998 | 0 | | | | |
| 1999 | 0 | | | | |
| 2000 | 0 | | | | |
| 2001 | 0 | | | | |
| 2002 | 0 | | | | |
| 2003 | 5,000 | | 1,000 | | 4,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Dual Purpose Kerosene (DPK/Jet A1)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|---|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | | 1,000 | | 1,000 | 5,000 | 4,000 | 7,000 | -2,000 | 5,000 |
| 1995 | | | | | 5,000 | | -5,000 | 5,000 | -5,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 1,000 | 1,000 | -1,000 | 1,000 | |
| 2003 | 10,000 | | 1,000 | | 1,000 | 5,000 | 4,000 | 7,000 | -2,000 | 5,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (kl) | Sales to Resellers (kl) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | | | |
|------|-------------------------|-------------------------------|---|---|-------------------------|---|---------------------|
| | | | Wholesale/ Retail Trade and Recreation (kl) | Transport and Communication International Air (kl) | Domestic Air (kl) | Community and Social Services (kl) | Residential (kl) |
| 1994 | 5,000 | | | 5,000 | | | |
| 1995 | 0 | | | | | | |
| 1996 | 0 | | | | | | |
| 1997 | 0 | | | | | | |
| 1998 | 0 | | | | | | |
| 1999 | 0 | | | | | | |
| 2000 | 0 | | | | | | |
| 2001 | 0 | | | | | | |
| 2002 | 0 | | | | | | |
| 2003 | 5,000 | | | 5,000 | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Motor Gasoline (Mogas/Petrol)

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (‘000 gals) | Re-exports (‘000 gals) | Inter-company Receipts (‘000 gals) | Inter-company Transfers (‘000 gals) | Stock Level | | | Calculated Sales (‘000 gals) | +/- Statistical Discrepancy (‘000 gals) | Actual Sales (‘000 gals) |
|------|------------------------|---------------------------|--|---|-----------------------------|-------------------------------|-----------------------------|------------------------------------|---|--------------------------------|
| | | | | | at 1 January (‘000 gals) | at 31 December (‘000 gals) | Stock change (‘000 gals) | | | |
| 1994 | 10,000 | | 1,000 | | 1,000 | 2,000 | 1,000 | 10,000 | 0 | 10,000 |
| 1995 | | | | | 2,000 | | -2,000 | 2,000 | -2,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 1,000 | 1,000 | -1,000 | 1,000 | |
| 2003 | 10,000 | | 1,000 | | 1,000 | 2,000 | 1,000 | 10,000 | 0 | 10,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg, spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales to Resellers and End-users

| Year | Actual Sales (kl) | Sales to Resellers (kl) | Sales to End-users [Note: this is only a guide to actual end-use consumption] | | |
|------|-------------------------|-------------------------------|---|--|--|
| | | | Agriculture, Forestry and Fishing (kl) | Wholesale/ Retail Trade and Recreation (kl) | Transport and Communication Road (kl) |
| 1994 | 10,000 | 10,000 | | | |
| 1995 | 0 | | | | |
| 1996 | 0 | | | | |
| 1997 | 0 | | | | |
| 1998 | 0 | | | | |
| 1999 | 0 | | | | |
| 2000 | 0 | | | | |
| 2001 | 0 | | | | |
| 2002 | 0 | | | | |
| 2003 | 10,000 | 10,000 | | | |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation').

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Solvents

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 1,000 | | | | 1,000 | 2,000 | 1,000 | 0 | 1,000 | 1,000 |
| 1995 | | | | | 2,000 | | -2,000 | 2,000 | -2,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 1,000 | 1,000 | -1,000 | 1,000 | |
| 2003 | 1,000 | | | | 1,000 | 2,000 | 1,000 | 0 | 1,000 | 1,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales = Consumption by End-users

| Year | Actual Sales = | Consumption |
|------|--|--|
| | Total Consumption (^{'000 gals}) | Solvents, Lubricants and Bitumen (^{'000 gals}) |
| 1994 | 1,000 | 1,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 1,000 | 1,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the company's depot use and losses.

Petroleum Company Annual Supply and Sales

Company: Shell
 Petroleum Product: Lubricants and Greases

Company Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | inter-company Receipts (^{'000} gals) | inter-company Transfers (^{'000} gals) | Stock Level | | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|---|---|---|---|--|---|--|
| | | | | | at 1 January (^{'000} gals) | at 31 December (^{'000} gals) | Stock change (^{'000} gals) | | | |
| 1994 | 5,000 | | | | 1,000 | 2,000 | 1,000 | 4,000 | 1,000 | 5,000 |
| 1995 | | | | | 2,000 | | -2,000 | 2,000 | -2,000 | |
| 1996 | | | | | 0 | | 0 | 0 | 0 | |
| 1997 | | | | | 0 | | 0 | 0 | 0 | |
| 1998 | | | | | 0 | | 0 | 0 | 0 | |
| 1999 | | | | | 0 | | 0 | 0 | 0 | |
| 2000 | | | | | 0 | | 0 | 0 | 0 | |
| 2001 | | | | | 0 | | 0 | 0 | 0 | |
| 2002 | | | | | 0 | 1,000 | 1,000 | -1,000 | 1,000 | |
| 2003 | 5,000 | | | | 1,000 | 2,000 | 1,000 | 4,000 | 1,000 | 5,000 |

NOTE: Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change. 'Sales' include company's own use and losses (eg. spillage, evaporation).

Actual Sales = The booked Sales figure (INCLUDING the company's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

Company Sales = Consumption by End-users

| Year | Actual Sales = Total Consumption | Consumption Solvents, Lubricants and Bitumen |
|------|--|---|
| | (^{'000} gals) | (^{'000} gals) |
| 1994 | 5,000 | 5,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 5,000 | 5,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the company's depot use and losses.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **All Petroleum Products**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000} gals) | Re-exports (^{'000} gals) | Inter-company Receipts (^{'000} gals) | Inter-company Transfers (^{'000} gals) | Stock Level | | | Calculated Sales (^{'000} gals) | +/- Statistical Discrepancy (^{'000} gals) | Actual Sales (^{'000} gals) |
|------|------------------------------------|---------------------------------------|--|---|---|---|---|--|---|--|
| | | | | | at 1 January (^{'000} gals) | at 31 December (^{'000} gals) | Stock change (^{'000} gals) | | | |
| 1994 | 124,000 | 0 | 3,000 | 3,000 | 7,000 | 37,000 | 30,000 | 94,000 | 11,000 | 105,000 |
| 1995 | 0 | 0 | 0 | 0 | 37,000 | 0 | -37,000 | 37,000 | -37,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 7,000 | 7,000 | -7,000 | 7,000 | 0 |
| 2003 | 124,000 | 0 | 3,000 | 3,000 | 7,000 | 37,000 | 30,000 | 94,000 | 11,000 | 105,000 |

NOTE: Inter-company/depot Receipts MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors (next page)

National Sales and Consumption by End-use Sectors

| Year | Actual Sales = Total Consumption (^{'000} gals) | Consumption by End-use Sectors | | | | | | | | | |
|------|---|--|--|--|---|--|---|---|-----------------------------|-------|--|
| | | Agriculture, Forestry and Fishing (^{'000} gals) | Mining and Quarrying (^{'000} gals) | Manufacturing (^{'000} gals) | Electricity Generation* (^{'000} gals) | Water and Sewerage (^{'000} gals) | Construction (^{'000} gals) | Wholesale/ Retail Trade and Recreation (^{'000} gals) | Transport and Communication | | |
| | | International Air (^{'000} gals) | Domestic Air (^{'000} gals) | Rail (^{'000} gals) | | | | | | | |
| 1994 | 105,000 | 2,000 | 0 | 5,000 | 1,000 | 1,000 | 0 | 7,000 | 5,000 | 8,000 | |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2003 | 105,000 | 2,000 | 0 | 5,000 | 1,000 | 1,000 | 0 | 7,000 | 5,000 | 8,000 | |

Consumption by End-use Sectors (continued)

| Year | Consumption by End-use Sectors (continued) | | | | | | |
|------|--|--------------------------------|--|--|--|--|---|
| | Transport and Communication | | | Finance and Business Services (^{'000} gals) | Community and Social Services (^{'000} gals) | Residential (^{'000} gals) | Solvents, Lubricants and Bitumen (^{'000} gals) |
| | Road (^{'000} gals) | Sea (^{'000} gals) | Communication (^{'000} gals) | | | | |
| 1994 | 26,000 | 5,000 | 0 | 0 | 0 | 22,000 | 23,000 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 26,000 | 5,000 | 0 | 0 | 0 | 22,000 | 23,000 |

NOTE: Actual Sales = 'Sales to Resellers' plus 'Sales to End-users'. If not equal, then 'ERROR' message will show. Include the oil company's depot use (under 'Road Transport') and losses (under 'Wholesale/Retail Trade and Recreation'). * Amount shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Automotive Diesel Oil (ADO)**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 20,000 | 0 | 1,000 | 1,000 | 0 | 6,000 | 6,000 | 14,000 | 1,000 | 15,000 |
| 1995 | 0 | 0 | 0 | 0 | 6,000 | 0 | -6,000 | 6,000 | -6,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 20,000 | 0 | 1,000 | 1,000 | 0 | 6,000 | 6,000 | 14,000 | 1,000 | 15,000 |

NOTE: Inter-company/depot Receipts' MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies' own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors

| Year | Actual Sales = Total Consumption (^{'000 gals}) | Consumption by End-use Sectors | | | | | | | | | |
|------|--|---|---|---|--|---|--|--|----------------------------------|---------------------------------|-------|
| | | Agriculture, Forestry and Fishing (^{'000 gals}) | Mining and Quarrying (^{'000 gals}) | Manufacturing (^{'000 gals}) | Electricity Generation* (^{'000 gals}) | Water and Sewerage (^{'000 gals}) | Construction (^{'000 gals}) | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication | | |
| | | | | | | | | Rail (^{'000 gals}) | Road (^{'000 gals}) | Sea (^{'000 gals}) | |
| 1994 | 15,000 | | | | 1,000 | 1,000 | | | | 8,000 | 5,000 |
| 1995 | 0 | | | | | | | | | | |
| 1996 | 0 | | | | | | | | | | |
| 1997 | 0 | | | | | | | | | | |
| 1998 | 0 | | | | | | | | | | |
| 1999 | 0 | | | | | | | | | | |
| 2000 | 0 | | | | | | | | | | |
| 2001 | 0 | | | | | | | | | | |
| 2002 | 0 | | | | | | | | | | |
| 2003 | 15,000 | | | | 1,000 | 1,000 | | | | 8,000 | 5,000 |

NOTE: Actual Sales = Total Consumption = the aggregate of 'Consumption by End-use Sectors'. If not equal, then an 'ERROR' message will show. Include the oil companies use under 'Road Transport' and losses under 'Wholesale/Retail Trade and Recreation'. * ADO shown here as consumed for 'Electricity Generation' MUST CLOSELY APPROXIMATE that amount shown in the 'POWER' Tables.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Aviation Gasoline (Avgas)**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 20,000 | 0 | 0 | 0 | 0 | 10,000 | 10,000 | 10,000 | 0 | 10,000 |
| 1995 | 0 | 0 | 0 | 0 | 10,000 | 0 | -10,000 | 10,000 | -10,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 20,000 | 0 | 0 | 0 | 0 | 10,000 | 10,000 | 10,000 | 0 | 10,000 |

NOTE: Inter-company/depot Receipts' MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors

| Year | Actual Sales (^{'000 gals}) | Consumption by End-use Sectors | | |
|------|---|--|---|--|
| | | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and International Air (^{'000 gals}) | Communication Domestic Air (^{'000 gals}) |
| 1994 | 10,000 | 2,000 | | 8,000 |
| 1995 | 0 | | | |
| 1996 | 0 | | | |
| 1997 | 0 | | | |
| 1998 | 0 | | | |
| 1999 | 0 | | | |
| 2000 | 0 | | | |
| 2001 | 0 | | | |
| 2002 | 0 | | | |
| 2003 | 10,000 | 2,000 | | 8,000 |

NOTE: Actual Sales = Total Consumption = the aggregate of 'Consumption by End-use Sectors'. If not equal, then an 'ERROR' message will show. Include the oil companies losses under 'Wholesale/Retail Trade and Recreation'.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Avial Purpose Kerosene (DPK/Jet A1)**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 20,000 | 0 | 1,000 | 1,000 | 1,000 | 6,000 | 5,000 | 15,000 | 0 | 15,000 |
| 1995 | 0 | 0 | 0 | 0 | 6,000 | 0 | -6,000 | 6,000 | -6,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 1,000 | 1,000 | -1,000 | 1,000 | 0 |
| 2003 | 20,000 | 0 | 1,000 | 1,000 | 1,000 | 6,000 | 5,000 | 15,000 | 0 | 15,000 |

NOTE: Inter-company/depot Receipts' MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors

| Year | Actual Sales - Total Consumption (^{'000 gals}) | Consumption by End-use Sectors | | | |
|------|--|--|---|---|---|
| | | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication International Air (^{'000 gals}) | Community and Social Services (^{'000 gals}) | Residential (^{'000 gals}) |
| 1994 | 15,000 | | 5,000 | | 10,000 |
| 1995 | 0 | | | | |
| 1996 | 0 | | | | |
| 1997 | 0 | | | | |
| 1998 | 0 | | | | |
| 1999 | 0 | | | | |
| 2000 | 0 | | | | |
| 2001 | 0 | | | | |
| 2002 | 0 | | | | |
| 2003 | 15,000 | | 5,000 | | 10,000 |

NOTE: Actual Sales = Total Consumption = the aggregate of 'Consumption by End-use Sectors'. If not equal, then an 'ERROR' message will show. Include the oil companies losses under 'Wholesale/Retail Trade and Recreation'.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Liquefied Petroleum Gas (LPG)**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 22,000 | 0 | 0 | 0 | 0 | 5,000 | 5,000 | 17,000 | 5,000 | 22,000 |
| 1995 | 0 | 0 | 0 | 0 | 5,000 | 0 | -5,000 | 5,000 | -5,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 22,000 | 0 | 0 | 0 | 0 | 5,000 | 5,000 | 17,000 | 5,000 | 22,000 |

NOTE: Inter-company/depot Receipts MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies' own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors

| Year | Actual Sales = Total Consumption (^{'000 gals}) | Consumption by End-use Sectors | | | | | Residential (^{'000 gals}) |
|------|--|---|--|--|---|---|---|
| | | Manufacturing (^{'000 gals}) | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Communication (^{'000 gals}) | Finance and Business Services (^{'000 gals}) | Community and Social Services (^{'000 gals}) | |
| 1994 | 22,000 | 5,000 | 5,000 | | | | 12,000 |
| 1995 | 0 | | | | | | |
| 1996 | 0 | | | | | | |
| 1997 | 0 | | | | | | |
| 1998 | 0 | | | | | | |
| 1999 | 0 | | | | | | |
| 2000 | 0 | | | | | | |
| 2001 | 0 | | | | | | |
| 2002 | 0 | | | | | | |
| 2003 | 22,000 | 5,000 | 5,000 | | | | 12,000 |

NOTE: Actual Sales = Total Consumption = the aggregate of 'Consumption by End-use Sectors'. If not equal, then an 'ERROR' message will show. Include the oil companies losses under 'Wholesale/Retail Trade and Recreation'.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Motor Gasoline (Mogas/Petrol)**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 20,000 | 0 | 1,000 | 1,000 | 2,000 | 4,000 | 2,000 | 18,000 | 2,000 | 20,000 |
| 1995 | 0 | 0 | 0 | 0 | 4,000 | 0 | -4,000 | 4,000 | -4,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 2,000 | 2,000 | -2,000 | 2,000 | 0 |
| 2003 | 20,000 | 0 | 1,000 | 1,000 | 2,000 | 4,000 | 2,000 | 18,000 | 2,000 | 20,000 |

NOTE: Inter-company/depot Receipts MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies' own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales and Consumption by End-use Sectors

| Year | Actual Sales = Total Consumption (^{'000 gals}) | Consumption by End-use Sectors | | |
|------|--|---|--|--|
| | | Agriculture, Forestry and Fishing (^{'000 gals}) | Wholesale/ Retail Trade and Recreation (^{'000 gals}) | Transport and Road Communication (^{'000 gals}) |
| 1994 | 20,000 | 2,000 | | 18,000 |
| 1995 | 0 | | | |
| 1996 | 0 | | | |
| 1997 | 0 | | | |
| 1998 | 0 | | | |
| 1999 | 0 | | | |
| 2000 | 0 | | | |
| 2001 | 0 | | | |
| 2002 | 0 | | | |
| 2003 | 20,000 | 2,000 | | 18,000 |

NOTE: Actual Sales = Total Consumption = the aggregate of 'Consumption by End-use Sectors'. If not equal, then an 'ERROR' message will show. Include the oil companies use under 'Road Transport' and losses under 'Wholesale/Retail Trade and Recreation'.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Solvents**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 2,000 | 0 | 0 | 0 | 3,000 | 3,000 | 0 | 2,000 | 2,000 | 4,000 |
| 1995 | 0 | 0 | 0 | 0 | 3,000 | 0 | -3,000 | 3,000 | -3,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 3,000 | 3,000 | -3,000 | 3,000 | 0 |
| 2003 | 2,000 | 0 | 0 | 0 | 3,000 | 3,000 | 0 | 2,000 | 2,000 | 4,000 |

NOTE: Inter-company/depot Receipts' MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales = Consumption by End-users

| Year | Actual Sales | Consumption |
|------|--|--|
| | Total Consumption (^{'000 gals}) | Solvents, Lubricants and Bitumen (^{'000 gals}) |
| 1994 | 4,000 | 4,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 4,000 | 4,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the oil companies depot use and losses.

Palau Annual Petroleum Supply and Demand

Petroleum Product: **Lubricants and Greases**

National Imports, Re-exports, Inter-company/depot Transactions (incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | 0 | 0 | 0 | 1,000 | 3,000 | 2,000 | 8,000 | 1,000 | 9,000 |
| 1995 | 0 | 0 | 0 | 0 | 3,000 | 0 | -3,000 | 3,000 | -3,000 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 1,000 | 1,000 | -1,000 | 1,000 | 0 |
| 2003 | 10,000 | 0 | 0 | 0 | 1,000 | 3,000 | 2,000 | 8,000 | 1,000 | 9,000 |

NOTE: Inter-company/depot Receipts MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies' own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales = Consumption by End-users

| Year | Actual Sales = Total Consumption (^{'000 gals}) | Consumption Solvents, Lubricants and Bitumen (^{'000 gals}) |
|------|--|---|
| 1994 | 9,000 | 9,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 9,000 | 9,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the oil companies depot use and losses.

Palau Annual Petroleum Supply and Demand

Petroleum Product: Bitumen

National Imports, Re-exports, Inter-company/depot Transactions (Incl. Borrow/Loan), Stock Change, and Sales

| Year | Imports (^{'000 gals}) | Re-exports (^{'000 gals}) | Inter-company Receipts (^{'000 gals}) | Inter-company Transfers (^{'000 gals}) | Stock Level | | | Calculated Sales (^{'000 gals}) | +/- Statistical Discrepancy (^{'000 gals}) | Actual Sales (^{'000 gals}) |
|------|-------------------------------------|--|---|--|--|--|--|---|--|---|
| | | | | | at 1 January (^{'000 gals}) | at 31 December (^{'000 gals}) | Stock change (^{'000 gals}) | | | |
| 1994 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 | 0 | 10,000 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 | 0 | 10,000 |

NOTE: Inter-company/depot Receipts' MUST EQUAL 'Inter-company/depot Transfers' at the national level. Otherwise an imbalance has occurred.

Stock Change = Decrease/increase in stock level at year end due to stock drawdown/stock build respectively. NOTE that 'Stock Level' at 1 January must be equal to 31 December in the year before.

Calculated Sales = Imports - re-exports + inter-company receipts - inter-company transfers +/- stock change.

Actual Sales = The booked Sales figure (INCLUDING the companies's own use and losses). Any difference between the 'Actual Sales' and the 'Calculated Sales' is the 'Statistical Discrepancy'.

National Sales = Consumption by End-users

| Year | Actual Sales | Consumption |
|------|--|--|
| | Total Consumption (^{'000 gals}) | Solvents, Lubricants and Bitumen (^{'000 gals}) |
| 1994 | 10,000 | 10,000 |
| 1995 | 0 | 0 |
| 1996 | 0 | 0 |
| 1997 | 0 | 0 |
| 1998 | 0 | 0 |
| 1999 | 0 | 0 |
| 2000 | 0 | 0 |
| 2001 | 0 | 0 |
| 2002 | 0 | 0 |
| 2003 | 10,000 | 10,000 |

NOTE: Actual Sales = 'Consumption by End-use Sectors'. This includes the oil companies depot use and losses.

ANNEX 8 POWER WORKBOOKS

Power Station and Grid Annual Operation - Angaur State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Angaur State System | | |
| Power Station and Location: | Angaur Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|------------------------------------|-------------------------|------------------------|
| | Normal Period of Station Operation | Station Capacity Factor | Maximum Station Demand |
| | (hours/day) | (%) | (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) (%) | |
| | | | | | | | | | | | | |
| 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.

Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.

Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.

System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.

Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|--|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/ Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Kayangel State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Kayangel State System | | |
| Power Station and Location: | Kayangel Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | Sole Generator | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.
 Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.
 Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.
 Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.
 Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.
 Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.
 Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.
 Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.
 Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and Unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) (%) | |
| 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.
 Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.
 Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.
 System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.
 Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|--|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/ Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Koror-Babeldaob System (Utility)

| | | | |
|------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Koror-Babeldaob System | | |
| Power Station: | Aimeliik Power Station | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Koror-Babeldaob Power System Annual Operation (Utility)

Utility: Palau Utilities Corporation (PUC)
 System/Grid name: Koror-Babeldaob System

System Generation Operation and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|---|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 220.00 | 200.00 | 1,600.00 | 40.00 | 1,560.00 | 200.00 | 29,220.00 | 20% | 10.00 |
| 1995 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1997 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2003 | 220.00 | 200.00 | 1,600.00 | 40.00 | 1,560.00 | 200.00 | 29,220.00 | 20% | 10.00 |

| Year | Generation Indicators | |
|------|-------------------------------------|--------------------------------|
| | Average Station Capacity Factor (%) | Maximum Generation Demand (kW) |
| 1994 | 91% | 180.00 |
| 1995 | #DIV/0! | 0.00 |
| 1996 | #DIV/0! | 0.00 |
| 1997 | #DIV/0! | 0.00 |
| 1998 | #DIV/0! | 0.00 |
| 1999 | #DIV/0! | 0.00 |
| 2000 | #DIV/0! | 0.00 |
| 2001 | #DIV/0! | 0.00 |
| 2002 | #DIV/0! | 0.00 |
| 2003 | 91% | 180.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.
 Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.
 Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the 'Installed Capacity' of the power stations within the System.
 Derated Capacity = Sum of the 'Derated Capacity' (if applicable) of the power stations within the System.
 Station Own Use and Losses = Sum of the 'Station Own Use and Losses' of the power stations within the System.
 Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.
 Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.
 Average Station Capacity Factor = Ratio of the System's power station's 'Gross Generation' to their potential generation had their generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

System Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---------------------------------------|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and Unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) | |
| | | | | | | | | | | | | (MWh) |
| 1994 | 1,560.00 | | | 1,560.00 | | 60.00 | | 1,500.00 | 170.00 | 105% | 260.00 | 17% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 1,560.00 | | | 1,560.00 | | 60.00 | | 1,500.00 | 170.00 | 105% | 260.00 | 17% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.
 Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.
 Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.
 System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.
 Total System Own Use and Losses = Total of 'Station Own Use and Losses' of all power stations in the System, plus 'Transmission, Distribution and Pilferage Losses' of the System.

System Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|---|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 1,500.00 | | | 300.00 | | | 50.00 | | 50.00 | 50.00 | 50.00 | 1,000.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 1,500.00 | | | 300.00 | | | 50.00 | | 50.00 | 50.00 | 50.00 | 1,000.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Station reference no.:

Power Station and Grid Annual Operation - Koror-Babeldaob System (Utility)

| | |
|---|---|
| Utility: Palau Utilities Corporation (PUC) System/Grid name: Koror-Babeldaob System Power Station: Malakal Power Station Power Station Type: Thermal Date of Commissioning: | ADO Reciprocating Engine Sole Generator |
|---|---|

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | Station Fuel and Lubricant Usage | | | | |
|------|-------------------------|-----------------------|------------------------|----------------------------------|----------------------------------|---|-------------------------|------------------------------|------|
| | Installed Capacity (kW) | Derated Capacity (kW) | Gross Generation (MWh) | Station Own Use and Losses (MWh) | Net Generation Sent Out (MWh) | Automotive Diesel Oil (ADO) (reciprocating engine) ('000 gallons) | Fuel Use Efficiency (%) | Lubricant Oil ('000 gallons) | |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | |
|------|--|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 90.00 |
| 1995 | #DIV/0! | |
| 1996 | #DIV/0! | |
| 1997 | #DIV/0! | |
| 1998 | #DIV/0! | |
| 1999 | #DIV/0! | |
| 2000 | #DIV/0! | |
| 2001 | #DIV/0! | |
| 2002 | #DIV/0! | |
| 2003 | 12.00 | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro(run-of-river, or storage) or Thermal/Fuel(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Power Station and Grid Annual Operation - Ngarard State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Ngarard State System | | |
| Power Station and Location: | Ngarard Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | Sole Generator | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.
 Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.
 Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.
 Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.
 Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.
 Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.
 Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.
 Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.
 Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) (%) | |
| 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.
 Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.
 Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.
 System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.
 Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|--|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/ Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | | 50.00 | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | | 50.00 | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Ngerchelung State System (Utility)

Station reference no.:

| | |
|---|--|
| Utility: Palau Utilities Corporation (PUC) System/Grid name: Ngerchelung State System Power Station: Ngerchelung#1 Power Station Power Station Type: ADO Date of Commissioning: | Reciprocating Engine Sole Generator |
|---|--|

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | Station Fuel and Lubricant Usage | | | | |
|------|-------------------------|-----------------------|------------------------|----------------------------------|----------------------------------|---|-------------------------|------------------------------|------|
| | Installed Capacity (kW) | Derated Capacity (kW) | Gross Generation (MWh) | Station Own Use and Losses (MWh) | Net Generation Sent Out (MWh) | Automotive Diesel Oil (reciprocating engine) ('000 gallons) | Fuel Use Efficiency (%) | Lubricant Oil ('000 gallons) | |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | Maximum Station Demand (kW) |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Power Station and Grid Annual Operation - Ngerchelongs State System (Utility)

Station reference no.:

Utility: Palau Utilities Corporation (PUC)

System/Grid name: Ngerchelongs State System

Power Station: Ngerchelongs#2 Power Station

Power Station Type: **Thermal** **ADO**

Date of Commissioning: **Reciprocating Engine** **Sole Generator**

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | Station Fuel and Lubricant Usage | | | | |
|------|-------------------------|-----------------------|------------------------|----------------------------------|----------------------------------|---|-------------------------|------------------------------|------|
| | Installed Capacity (kW) | Derated Capacity (kW) | Gross Generation (MWh) | Station Own Use and Losses (MWh) | Net Generation Sent Out (MWh) | Automotive Diesel Oil (reciprocating engine) ('000 gallons) | Fuel Use Efficiency (%) | Lubricant Oil ('000 gallons) | |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | Maximum Station Demand (kW) |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Ngerchelong State Power System Annual Operation (Utility)

Utility: Palau Utilities Corporation (PUC)
System/Grid name: Ngerchelong State System

System Generation Operation and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 220.00 | 200.00 | 1,600.00 | 40.00 | 1,560.00 | 200.00 | 29,220.00 | 20% | 10.00 |
| 1995 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1997 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2003 | 220.00 | 200.00 | 1,600.00 | 40.00 | 1,560.00 | 200.00 | 29,220.00 | 20% | 10.00 |

| Year | Generation Indicators | |
|------|-------------------------------------|--------------------------------|
| | Average Station Capacity Factor (%) | Maximum Generation Demand (kW) |
| 1994 | 91% | 180.00 |
| 1995 | #DIV/0! | 0.00 |
| 1996 | #DIV/0! | 0.00 |
| 1997 | #DIV/0! | 0.00 |
| 1998 | #DIV/0! | 0.00 |
| 1999 | #DIV/0! | 0.00 |
| 2000 | #DIV/0! | 0.00 |
| 2001 | #DIV/0! | 0.00 |
| 2002 | #DIV/0! | 0.00 |
| 2003 | 91% | 180.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.
 Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.
 Power Station Type = Either Hydro(run-of-river, or storage) or Thermal/Fuel(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the 'Installed Capacity' of the power stations within the System.
 Derated Capacity = Sum of the 'Derated Capacity' (if applicable) of the power stations within the System.
 Station Own Use and Losses = Sum of the 'Station Own Use and Losses' of the power stations within the System.
 Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.
 Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.
 Average Station Capacity Factor = Ratio of the System's power station's 'Gross Generation' to their potential generation had their generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

System Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | Total Power into System (MWh) | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------------|--------------------------------|----------------------------|------------------------|---------------------------------------|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and Unmetered Sales (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) | |
| | | | | | | | | | | | | |
| 1994 | 1,560.00 | | | 1,560.00 | | 60.00 | | 1,500.00 | 170.00 | 105% | 260.00 | 17% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 1,560.00 | | | 1,560.00 | | 60.00 | | 1,500.00 | 170.00 | 105% | 260.00 | 17% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.
 Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.
 Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.
 System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.
 Total System Own Use and Losses = Total of 'Station Own Use and Losses' of all power stations in the System, plus 'Transmission, Distribution and Pilferage Losses' of the System.

System Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|---|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 1500.00 | | | 300.00 | | | 50.00 | | 50.00 | 50.00 | 50.00 | 1,000.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 1,500.00 | | | 300.00 | | | 50.00 | | 50.00 | 50.00 | 50.00 | 1,000.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Ngerdmau State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Ngerdmau State System | | |
| Power Station and Location: | Ngerdmau Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | | | |
| | Sole Generator | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro(run-of-river, or storage) or Thermal/Fuel(reciprocating engine, gas turbine, or boiler). Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---------------------------------------|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and Unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) | (%) |
| | | 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.

Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.

Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.

System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.

Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|---|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Ngiwal State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Ngiwal State System | | |
| Power Station and Location: | Ngiwal Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | Sole Generator | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.
 Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.
 Power Station Type = Either Hydro/run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).
 Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.
 Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.
 Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.
 Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.
 Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.
 Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.
 Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|---|--------------------------------|----------------------------|------------------------|---------------------------------------|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and unmetered Sales to End-use Sectors (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) | (%) |
| 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.
 Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.
 Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.
 System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.
 Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|---|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Power Station and Grid Annual Operation - Peleliu State System (Utility)

| | | | |
|-----------------------------|-----------------------------------|-----|----------------------|
| Utility: | Palau Utilities Corporation (PUC) | | |
| System/Grid name: | Peleliu State System | | |
| Power Station and Location: | Peleliu Power Station and Grid | | |
| Power Station Type: | Thermal | ADO | Reciprocating Engine |
| Date of Commissioning: | | | |
| | Sole Generator | | |

Station Operations and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|-----------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |
| 1995 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1996 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1997 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1998 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 1999 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2000 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2001 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2002 | | | | | 0.00 | | 0.00 | #DIV/0! | |
| 2003 | 110.00 | 100.00 | 800.00 | 20.00 | 780.00 | 100.00 | 14,610.00 | 20% | 5.00 |

| Year | Station Generation Indicators | | |
|------|--|-----------------------------|-----------------------------|
| | Normal Period of Station Operation (hours/day) | Station Capacity Factor (%) | Maximum Station Demand (kW) |
| 1994 | 12.00 | 91% | 90.00 |
| 1995 | | #DIV/0! | |
| 1996 | | #DIV/0! | |
| 1997 | | #DIV/0! | |
| 1998 | | #DIV/0! | |
| 1999 | | #DIV/0! | |
| 2000 | | #DIV/0! | |
| 2001 | | #DIV/0! | |
| 2002 | | #DIV/0! | |
| 2003 | 12.00 | 91% | 90.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/(run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the nameplate capacities of the generator units within the power station.

Derated Capacity = Sum of the derated capacities (if applicable) of the generator units within the power station.

Station Own Use and Losses = Electricity used in the power station (eg lighting, equipment operation) and unaccounted losses.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Period of Station Operation = The normal daily operating period of the power station. Although generally 24 hours/day, smaller stations may operate only 10 hours/day or less.

Station Capacity Factor = Ratio of the power station's 'Gross Generation' to its potential generation had the generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---------------------------------------|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) | |
| 1994 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |
| 1995 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | | | 0.00 | | | | 0.00 | | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 780.00 | | | 780.00 | | 20.00 | 10.00 | 750.00 | 90.00 | 101% | 50.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.

Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.

Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.

System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.

Total System Own Use and Losses = Total of 'Station Own Use and Losses', plus 'Transmission, Distribution and Pilferage Losses' of the System.

Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|--|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/ Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |
| 1995 | 0.00 | | | | | | | | | | | |
| 1996 | 0.00 | | | | | | | | | | | |
| 1997 | 0.00 | | | | | | | | | | | |
| 1998 | 0.00 | | | | | | | | | | | |
| 1999 | 0.00 | | | | | | | | | | | |
| 2000 | 0.00 | | | | | | | | | | | |
| 2001 | 0.00 | | | | | | | | | | | |
| 2002 | 0.00 | | | | | | | | | | | |
| 2003 | 750.00 | | | 50.00 | | | 50.00 | | | 50.00 | | 600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

Palau Total Power Systems Annual Operation (Utility)

Utility: Palau Utilities Corporation (PUC)
System name: Palau

System Generation Operation and Fuel/Lubricant Usage

| Year | Station Capacity | | Station Generation | | | Station Fuel and Lubricant Usage | | | |
|------|--------------------|------------------|--------------------|----------------------------|-------------------------|--|------------|---------------------|----------------|
| | Installed Capacity | Derated Capacity | Gross Generation | Station Own Use and Losses | Net Generation Sent Out | Automotive Diesel Oil (ADO) (reciprocating engine) | | Fuel Use Efficiency | Lubricant Oil |
| | (kW) | (kW) | (MWh) | (MWh) | (MWh) | ('000 gallons) | (GJ) | (%) | ('000 gallons) |
| 1994 | 1,100.00 | 1,000.00 | 8,000.00 | 200.00 | 7,800.00 | 1,000.00 | 146,100.00 | 20% | 50.00 |
| 1995 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1997 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 1999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 |
| 2003 | 1,100.00 | 1,000.00 | 8,000.00 | 200.00 | 7,800.00 | 1,000.00 | 146,100.00 | 20% | 50.00 |

| Year | Generation Indicators | |
|------|-------------------------------------|--------------------------------|
| | Average Station Capacity Factor (%) | Maximum Generation Demand (kW) |
| 1994 | 91% | 900.00 |
| 1995 | #DIV/0! | 0.00 |
| 1996 | #DIV/0! | 0.00 |
| 1997 | #DIV/0! | 0.00 |
| 1998 | #DIV/0! | 0.00 |
| 1999 | #DIV/0! | 0.00 |
| 2000 | #DIV/0! | 0.00 |
| 2001 | #DIV/0! | 0.00 |
| 2002 | #DIV/0! | 0.00 |
| 2003 | 91% | 900.00 |

NOTE: Sole Generator = Power station that produces electricity only, as opposed to a Co-generation power station that produces both electricity and process heat.

Co-generator = Power station that produces both electricity and process heat for consumption by its associated industry (such as a saw mill or water distillation plant), and possibly for input to the grid.

Power Station Type = Either Hydro/run-of-river, or storage) or Thermal/Fuel/(reciprocating engine, gas turbine, or boiler).

Installed Capacity = Sum of the 'Installed Capacity' of the power stations within the System.

Derated Capacity = Sum of the 'Derated Capacity' (if applicable) of the power stations within the System.

Station Own Use and Losses = Sum of the 'Station Own Use and Losses' of the power stations within the System.

Net Generation Sent Out = 'Gross Generation' minus 'Station Own Use and Losses'.

Fuel Use Efficiency = The energy equivalent of the 'Gross Generation' (plus the 'Process Heat Produced', if applicable) divided by the energy equivalent of the total fuel input, expressed as a percentage.

Average Station Capacity Factor = Ratio of the System's power station's 'Gross Generation' to their potential generation had their generator units been operated at their maximum (derated) capacity for 365 days x 24 hours.

System Bulk Purchases/Sales, Losses, Sales to End-use Sectors, and Operational Indicators

| Year | Net Generation Sent Out (MWh) | Bulk Purchases/Sales ^(A) | | | Transmission/Distribution | | | | Operational Indicators | | | |
|------|-------------------------------|--------------------------------------|--------------------------------|-------------------------------|---------------------------|---------------------------|--|--------------------------------|----------------------------|------------------------|---|---------|
| | | Purchases from Self Generators (MWh) | Sales to Self Generators (MWh) | Total Power into System (MWh) | Transmission Losses (MWh) | Distribution Losses (MWh) | Pilferage and Unmetered Sales (estimate) (MWh) | Sales to End-use Sectors (MWh) | Maximum System Demand (kW) | System Load Factor (%) | Total System Own Use and Losses (MWh) (%) | |
| | | (MWh) | (MWh) | (MWh) | (MWh) | (MWh) | (MWh) | (MWh) | (MWh) | (kW) | (%) | (MWh) |
| 1994 | 7,800.00 | 0.00 | 0.00 | 7,800.00 | 0.00 | 240.00 | 60.00 | 7,500.00 | 880.00 | 101% | 500.00 | 6% |
| 1995 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 1997 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 1999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | #DIV/0! | 0.00 | #DIV/0! |
| 2003 | 7,800.00 | 0.00 | 0.00 | 7,800.00 | 0.00 | 240.00 | 60.00 | 7,500.00 | 880.00 | 101% | 500.00 | 6% |

NOTE: ^(A)Total 'Purchases' and 'Sales' of electricity by 'UTILITIES' from/to the Private Self Generators MUST BE EQUAL to that shown in the 'PRIVATE SELF GENERATORS' Tables.

Total Power into System = 'Net Generation Sent Out' plus 'Purchases from Self Generators' minus 'Sales to Self Generators'.

Sales to End-use Sectors = 'Total Power into System' minus 'Transmission Losses' minus 'Distribution Losses' minus 'Pilferage/Unmetered Sales'.

System Load Factor = Ratio of the average System load to the peak System load, assuming an operating year of 365 days x 24 hours. It indicates, in a rough way, the excess generating capacity that is required to serve peak loads.

Total System Own Use and Losses = Total of 'Station Own Use and Losses' of all power stations in the System, plus 'Transmission, Distribution and Pilferage Losses' of the System.

System Sales and Consumption By End-use Sectors

| Year | Sales to End-use Sectors (MWh) | Consumption by End-use Sectors | | | | | | | | | | |
|------|--------------------------------|---|----------------------------|---------------------|--------------------------|--------------------|---|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------|-------------------|
| | | Agriculture, Forestry and Fishing (MWh) | Mining and Quarrying (MWh) | Manufacturing (MWh) | Water and Sewerage (MWh) | Construction (MWh) | Wholesale/Retail Trade and Recreation (MWh) | Transport and Communication (MWh) | Finance and Business Services (MWh) | Community and Social Services (MWh) | Street Lighting (MWh) | Residential (MWh) |
| 1994 | 7,500.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 400.00 | 0.00 | 100.00 | 400.00 | 100.00 | 5,600.00 |
| 1995 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1996 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1997 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2003 | 7,500.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 400.00 | 0.00 | 100.00 | 400.00 | 100.00 | 5,600.00 |

NOTE: Sales to End-use Sectors = The aggregate of 'Consumption by End-use Sectors' MUST BE EQUAL to 'Sales to End-use Sectors' as shown in above tables; otherwise an 'ERROR' message will show.

ANNEX 9 ENERGY BALANCE

Palau 1994 Energy Balance (Terajoules)

| | Black Coal | Bagasse | Coconut Wood & Residue | Fuelwood & Wood Waste | Biomass | Total | Crude Oil | ADO | AVGAS | DPK | FO | IDO | LPG | MOGAS | Solvents, Lubricants & Bitumen | Total Petroleum | Natural Gas | Hydro- ^(B) Electricity | Geo- ^(B) Thermal Electricity | Electricity | Solar Heat ^(C) | Co- generation Heat ^(C) | TOTAL ENERGY | | |
|---|---------------|---------|------------------------------|-----------------------------|---------|-------|-----------|---------|---------|---------|---------|-----|---------|---------|--------------------------------------|--------------------|----------------|--------------------------------------|---|-------------|------------------------------|--|-----------------|----------|---------|
| ENERGY PRODUCTION AND SUPPLY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indigenous Production | | | 93.0 | 104.9 | 197.8 | | | | 2,922.0 | 2,514.0 | 2,786.0 | | 2,307.8 | 2,520.0 | 3,392.4 | 16,542.2 | | | | | | 0.2 | | 198.0 | |
| plus Imports | | | | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | | | | | 16,542.2 | |
| minus Exports/Re-exports | | | | 0.0 | 0.0 | | | | 876.6 | 1,257.0 | 696.5 | | 524.5 | 262.0 | 293.8 | 3,910.4 | | | | | | | | | 0.0 |
| minus Stock Changes ^(A) | | | | 0.0 | 0.0 | | | | 146.1 | 0.0 | 0.0 | | 524.5 | 262.0 | 404.3 | 1,336.9 | | | | | | | | | 3,910.4 |
| +/- Statistical Discrepancy | | | | 0.0 | 0.0 | | | | 2,191.5 | 1,257.0 | 2,089.5 | 0.0 | 2,307.8 | 2,620.0 | 3,502.9 | 13,968.7 | | | | | | | | | 1,336.9 |
| = TOTAL ENERGY SUPPLY | 0.0 | 0.0 | 93.0 | 104.9 | 197.8 | | 0.0 | 2,045.4 | 1,257.0 | 2,089.5 | 0.0 | 0.0 | 2,307.8 | 2,620.0 | 3,502.9 | 13,968.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 14,166.7 | |
| minus CONVERSION SECTOR | | | | | | | | | | | | | | | | | | | | | | | | | |
| Petroleum Refining | | | | | 0.0 | | | | 146.1 | | | | | | | 0.0 | | | | | | | | | 0.0 |
| Electricity Generation ^(B) | | | | | 0.0 | | | | | | | | | | | 146.1 | | | | | | | | | 117.2 |
| Co-generation Industries ^(C) | | | | | 0.0 | | | | | | | | | | | 0.0 | | | | | | | | | 0.0 |
| Own Fuel Use & Losses ^(D) | | | | | 0.0 | | | | | | | | | | | 0.0 | | | | | | | | | 1.8 |
| = NET OR FINAL ENERGY SUPPLY | 0.0 | 0.0 | 93.0 | 104.9 | 197.8 | | 0.0 | 2,045.4 | 1,257.0 | 2,089.5 | 0.0 | 0.0 | 2,307.8 | 2,620.0 | 3,502.9 | 13,822.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 14,047.6 | |
| for END-USE SECTOR CONSUMPTION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agriculture, Forestry & Fishing | | | 12.7 | 9.8 | 22.5 | | | | 0.0 | | | | | 262.0 | | 262.0 | | | | | | | | | 284.6 |
| Mining & Quarrying | | | | | 0.0 | | | | 0.0 | | | | | | | 0.0 | | | | | | | | | 0.0 |
| Manufacturing | | | 10.4 | 9.8 | 20.2 | | | | 0.0 | | | | 524.5 | | | 524.5 | | | | | | | | | 547.9 |
| Road Transport | | | | | 0.0 | | | | 1,168.8 | | | | | | | 3,526.8 | | | | | | | | | 3,526.8 |
| Rail Transport | | | | | 0.0 | | | | | | | | | | | 0.0 | | | | | | | | | 0.0 |
| Air Transport | | | | | 0.0 | | | | 1,005.6 | | 696.5 | | | | | 1,702.1 | | | | | | | | | 1,702.1 |
| Sea Transport | | | | | 0.0 | | | | 730.5 | | | | | | | 730.5 | | | | | | | | | 730.5 |
| Water & Sewerage | | | | | 0.0 | | | | 146.1 | | | | | | | | | | | | | | | | 0.0 |
| Commercial Sectors | | | | | 0.0 | | | | 0.0 | 251.4 | 0.0 | | | 524.5 | 0.0 | 775.9 | | | | | | | | | 777.8 |
| Community & Social Services | | | 12.7 | 15.5 | 28.2 | | | | | 0.0 | 0.0 | | | 0.0 | | 0.0 | | | | | | | | | 30.1 |
| Residential | | | 57.2 | 69.8 | 126.9 | | | | 1,393.0 | | | | 1,258.8 | | | 2,651.8 | | | | | | | | | 2,798.9 |
| Solvents, Lubricants & Bitumen | | | | | | | | | | | | | | | 3,502.9 | | | | | | | | | | 3,502.9 |
| = FINAL ENERGY CONSUMPTION | 0.0 | 0.0 | 93.0 | 104.9 | 197.8 | | 0.0 | 2,045.4 | 1,257.0 | 2,089.5 | 0.0 | 0.0 | 2,307.8 | 2,620.0 | 3,502.9 | 13,822.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 14,047.6 | |

(A) If 'Stocks' have decreased (shown as a negative) then they have been made available for consumption and consequently add to the 'Total Energy Supply'. An increase in the 'Stocks' level (shown as a positive) reduces the amount available for 'Supply'.

(B) 'Total Energy' for 'Electricity Generation' represents the energy lost in the conversion of fuels into electricity in the thermal electricity generation process. Conversion losses are generally of the order of 70% of fuel input.

(C) 'Co-generation Industries' convert input fuels to both electricity and process heat. The conversion process is shown in the 'Conversion Sector', while final consumption of the electricity and process heat is shown in the appropriate 'End Use Sector'.

(D) 'Own Fuel Use and Losses' is the sum of power stations' and petroleum refineries' own use, plus the losses involved in power transmission and distribution.

(E) After generation, 'Hydro-electricity' and 'Geothermal Electricity' combine with 'Electricity' generated in thermal power stations to become part of the general electricity supply. 'Indigenous Production' of 'Hydro-electricity' and 'Geothermal Electricity' is a measure of the electricity generated from these energy sources.