

The Cook Islands

Energy Policies



Japan

Hawaii

**Cook
Islands**

New Zealand



Cook Islands



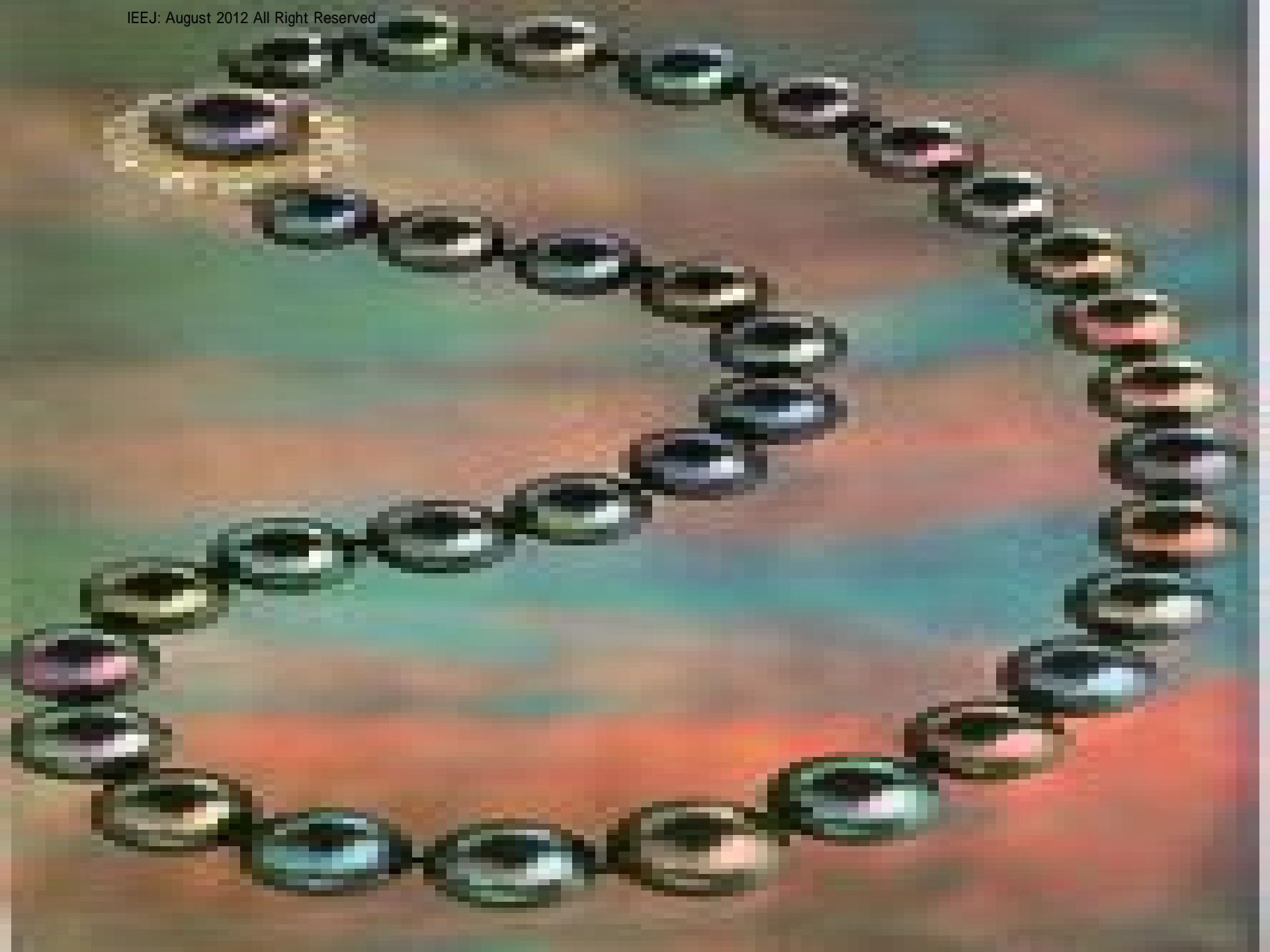
Location in the world

- The Cook Islands is located in the Pacific, to the east of Samoa, Niue and Tonga, south of Kiribati;
- There are 15 islands, 13 are habited and all islands are fully electrified;
- 12 islands have diesel generators so our dependence on diesel, an imported product is high;
- Our economy is slowing down like everyone else's, our GDP per capita is USD\$12.5



Our environment

- Our environment is beautiful and pristine as compared to today's standards
- We have plans to keep it that way by changing the way we generate electricity
- Our carbon emission into the atmosphere is high compared to other Pacific nations.
- Of the total number of oil we import, 47% is used in the transport sector, 30% for aviation and 27% for electricity generation.



Te Maeva Nui 2005

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Current Energy Policies

- Overarching policies (focus on RE)

- Te Atamoā o te uira natura

The Cook Islands Electricity Chart

It explains our direction and policy target;

- The Cook Islands Renewable Electricity Implementation Plan

Explains how we will achieve our target;

- The Island Specific Plan
- Describes what we will do for each island given their different needs.

Electricity demand and supply (nth)

| Island | Household | Population | Demand | Project cost |
|-----------|-----------|------------|--------|--------------|
| Rakahanga | 24 | 140 | 18 | \$1.1m |
| Pukapuka | 97 | 510 | 35 | \$2.4m |
| Nassau | 32 | 120 | 10 | \$0.35m |
| Suwarrow | 1 | 2 | 2 | \$0.04m |
| Manihiki | 97 | 370 | 30 | \$2.50m |
| Penrhyn | 66 | 260 | 50 | \$2.50m |

Electricity demand and supply (sth)

| Island | Households | Population | Peak Demand | Project cost |
|------------|------------|------------|-------------|--------------|
| Palmerston | 18 | 60 | 8kw | \$0.35m |
| Mitiaro | 145 | 220 | 39kw | \$1.50m |
| Mangaia | 177 | 640 | 120kw | \$3.50m |
| Atiu | 158 | 570 | 100kw | \$3.20m |
| Mauke | 106 | 390 | 90kw | \$4m |
| Aitutaki | 535 | 2,250 | 620kw | \$8m |
| Rarotonga | 3,009 | 13,900 | 6MW | \$200m |

Future Electricity demand and supply

For the outer islands:

Energy Efficiency program to control demand of electricity;

Uncertain on population growth.

For Rarotonga:

Energy Efficiency program to control demand of electricity;

Net metering policy affect demand and supply;

Uncertain on population growth.

Challenges in energy policy development

- The more isolated the island, the more chance data will be absent;
- Lack of knowledge, and consequent confidence in renewables;
- Lack of experts to provide technical advise in renewables;
- Land are tribally owned

Policy issues for consideration

- Policy on Private sector Investment;
- Policy on Tariff (given renewables);
- Policy on outer islands power sector governance;
- Policy on the economic viability using renewables in the Cook Islands;
- Policy on demand side management;

Arigato (meitaki maata)



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