

# Samoa

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Potential CDM Renewable Energy Projects  
Capacity Building Workshop on the Clean  
Development Mechanism (CDM)  
Suva, FIJI ISLANDS  
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# Map of Samoa





# Brief National Economic Profile

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- **Land area:** 2,820 km<sup>2</sup> on the two main islands of Upolu and Savai'i and seven small islands; 43% arable land.
- **Population (2008):** 182,379; 76% in Upolu; 21% in the urban area of the capital city, Apia.
- **Exclusive Economic Zone:** smallest in the Pacific at 98,500 km<sup>2</sup>.



# Brief National Economic Profile

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- **Gross Domestic Product (2008):** SAT\$1,413.1million; US\$515.7 million.
- **GDP composition (2008):** primary sector 10.8%; secondary sector 11.7%; tertiary sector 62.8%.
- **GDP per capita (2008):** SAT\$7,748; US\$2,827.

# The Energy Industry

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Samoa's power system comprises a grid each on Upolu and Savaii islands (2 main islands) and a trial PV Mini-Grid for Apolima island. More than 95% of the population has access to electricity.

- Total installed energy capacity: 37.2 MW
- 53% of generation comes from diesel generators, Samoa relies heavily on imported fossil fuel.
- In 2007, imported fuel accounted for 17% of Samoa's total imports and 20% if this imported fuel was used to generate electricity.



## Energy Generation Breakdown (Dec 2010)

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- 52.5 % Diesel Generation
- 47.5% Hydro Generation
- .01 % Solar PV
- .1% Biodiesel Generation (CNO)

# Potential CDM Projects

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## Mini-Hydro Schemes

□ 5 potential sites have been identified. Almost 2 years worth of data collected. Feasibility study already carried out.

Combined capacity of 5MW

• ER and CER's: 35,040 tCO<sub>2</sub>

## □ 2MW Wind Project

• ER and CER's: 14016 tCO<sub>2</sub>



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**THANK YOU**