



**DEVELOPING  
RENEWABLES**

Renewable Energy that benefits all

## Country energy information Niger

September 2006

SIXTH FRAMEWORK PROGRAMME PRIORITY 3

Underpinning the economic potential and cohesion of a larger and more integrated EU

SPECIFIC SUPPORT ACTION

Project Acronym: RECIPES

Project full title: Renewable Energy in emerging and developing countries: Current situation, market Potential and recommendations for a win-win-win for EU industry, the Environment and local Socio-economic development

Contract number: 513733

Start date of contract: 1st January 2005

### Introduction

The information in this report was gathered from publicly available sources (the source list is available at [www.energyrecipes.org](http://www.energyrecipes.org)), like surveys, statistical data from the internet and books and other publications. The information consists of:

1. indicators and indices;
2. descriptions of the relevant energy items/subjects /themes.

Due to differences in availability of data per country the level of detail of these reports will differ.

For all the 114 developing and emerging countries of the INCO list a report like this is available. (see also [www.energyrecipes.org](http://www.energyrecipes.org) for the countries) Except for the following 15 countries, where more detailed reports are available.

Argentina

Brazil

Colombia

Mexico

Peru

China

India

Indonesia

Pacific  
Islands

Thailand

Cameroon

Ghana

Niger

South-  
Africa

Uganda

### The RECIPES project

The RECIPES project aims to contribute to the implementation of renewable energy in emerging and developing countries. The RECIPES project is financed under the 6th Framework Programme for Research and Technological Development of the European Commission.

The main objective of the RECIPES project is to provide the European Commission and other stakeholders with pragmatic information and recommendations facilitating appropriate action to further the implementation of renewable energy in emerging and developing countries, taking into account:

- | The effects on the local socio-economic situation.
- | The competitive position of European renewable energy industry.
- | The impacts on the local and global environment.

Data collection on the situation and potential of renewable energy in emerging and developing countries is the core of the RECIPES project.

An identification of the RE market potential is carried out for 15 developing and emerging countries. Local experts gathered data for all of these countries. The results of these in-depth studies are extrapolated to 99 other developing and emerging countries for which data is gathered through desk research.

See the RECIPES website ([www.energyrecipes.org](http://www.energyrecipes.org)) for relevant data collected and reports produced.

|  | Niger    | Unit                   |
|--|----------|------------------------|
| <b>General</b>   |          |                        |
| Population (2005)  | 11665937 |                        |
| Country area   | 1186408  | km <sup>2</sup>        |
| Total density of population (people/km <sup>2</sup> )  | 10.000   | capita/km <sup>2</sup> |
| Growth of people % /year   | 2.630    | %                      |
| Land use arable (%)  | 3.540    | %                      |
| Land use perm crops (%)  | 0.010    | %                      |
| Percentage of total people living in cities  | 21.600   | %                      |
| HDI (2002)   | 0.292    |                        |
| <b>Social</b>  |          |                        |
| Illiteracy   | 17.600   | %                      |
| Year of estimation   | 2003     |                        |
| Corruption (CPI 2003) 0=high 10=low  | 0.000    |                        |
| GDP in ppp mostly \$ 2004 est  | 9.72     | billion                |
| <b>Economic</b>  |          |                        |
| Income /capita \$ mostly 2004  | 900      |                        |
| Variability of income/capita GINI index (2004)   | 50.500   |                        |
| Population below poverty line  | 63.000   | %                      |
| Year of estimation   | 1993     |                        |
| Total External Debt in % GDP (2004 est.)   | 0.000    | %                      |
| Inflation rate (consumer prices) (%)   | 3.000    | %                      |
| Year of estimation   | 2002     |                        |
| Growth of economy  | 3.500    | %                      |
| Year of estimation   | 2004     |                        |
| EDI energy development index   | 0.000    |                        |
| <b>Energy development</b>  |          |                        |
| Percentage of people connected to the grid (electricity)   | 0.000    | %                      |
| Traditional fuel consumption (% of total energy requirements 2002) . Estimated consumption of fuel wood, charcoal, bagasse (sugar cane waste) and animal and vegetable wastes. | 77.300   |                        |
| Oil consumption  | 5000.000 | bbl/day                |

## Fossil fuel consumption

|  |       |                            |
|--|-------|----------------------------|
| Year of estimation   | 2001  |                            |
| Coal consumption (Million Short Tons)                      | 0.190 | millions short tonnes/year |
| Natural gas consumption, year 2001 if not mentioned others |       |                            |
| Nuclear power production (Billion Kilowatthours) 2003      | 0.000 | billion kWh/year           |
| Hydro electricity capacity (2003)                          | 0.000 | million kilowatts          |

## Renewable energy situation

|   |       |                   |
|---|-------|-------------------|
| Geothermal, Solar, Wind, Wood and Waste Electricity Installed capacity (2003)             | 0.000 | million kilowatts |
| RE biomass production of primary energy from combustible Renewables and Wast TJ/Year 2002 | 0.000 |                   |
| RE energy electricity consumption (2003)  | 0.000 | billion kWh/year  |
| Total Primary Energy Supply 2000  | 0.000 | billion kWh/year  |
| Share of total renewables in % of TPES 2000   | 0.000 | %                 |
| Share of renewables excluding combustible renewables and waste in % of TPES 2000          | 0.000 | %                 |
| TPES 2003   | 0.000 | billion kWh/year  |
| Share of Renewables in TPES % (2003)  | 0.000 | %                 |
| Hydro (2003)  | 0.000 | %                 |
| Geothermal, Solar, Wind, Tide (2003)  | 0.000 | %                 |
| Combustible Renewables and Waste (2003)   | 0.000 | %                 |
| Total kWh per capita  | 0.000 |                   |

## Energy consumption for various sectors

|                                |       |         |
|--------------------------------|-------|---------|
| Industry                       | 0.000 | %       |
| Transportation                 | 0.000 | %       |
| Agriculture                    | 0.000 | %       |
| Commercial and public services | 0.000 | %       |
| Residential                    | 0.000 | %       |
| Other purposes                 | 0.000 | %       |
| Total oil production           | 0.000 | bbl/day |

## Energy production

|  |       |                            |
|--|-------|----------------------------|
| Total coal production (Million Short Tons) | 0.190 | millions short tonnes/year |
| Total natural gas production               |       |                            |
| Total Electricity Production GWh           | 0.000 | GWh                        |

## Electricity

|  |         |     |
|--|---------|-----|
| Electricity production from coal %                 | 0.000   | %   |
| Electricity production from oil %                  | 0.000   | %   |
| Electricity production from gas %                  | 0.000   | %   |
| Electricity production from biomass %              | 0.000   | %   |
| Electricity production from waste %                | 0.000   | %   |
| Electricity production from nuclear %              | 0.000   | %   |
| Electricity production from hydro %                | 0.000   | %   |
| Electricity production from geothermal %           | 0.000   | %   |
| Electricity production from solar thermal and PV % | 0.000   | %   |
| Electricity production from other sources %        | 0.000   | %   |
| Electricity consumption GWh (2003)                 | 264.000 | GWh |
| Total final electricity consumption GWh (2002)     | 0.000   | GWh |
| Electricity used by Industry % (2002)              | 0.000   | %   |
| Electricity used by Transport % (2002)             | 0.000   | %   |
| Electricity used by Agriculture % (2002)           | 0.000   | %   |

|   |       |   |
|---|-------|---|
| Electricity used by Commerce and Public Services % (2002) | 0.000 | % |
| Electricity used by Residential % (2002)                  | 0.000 | % |
| Electricity used by Other Non-Specified % (2002)          | 0.000 | % |
| Electricity used by Non-Energy Use % (2002)               | 0.000 | % |