



WORKSHOP ON CO₂ CAPTURE AND STORAGE IN SOUTHERN AFRICA

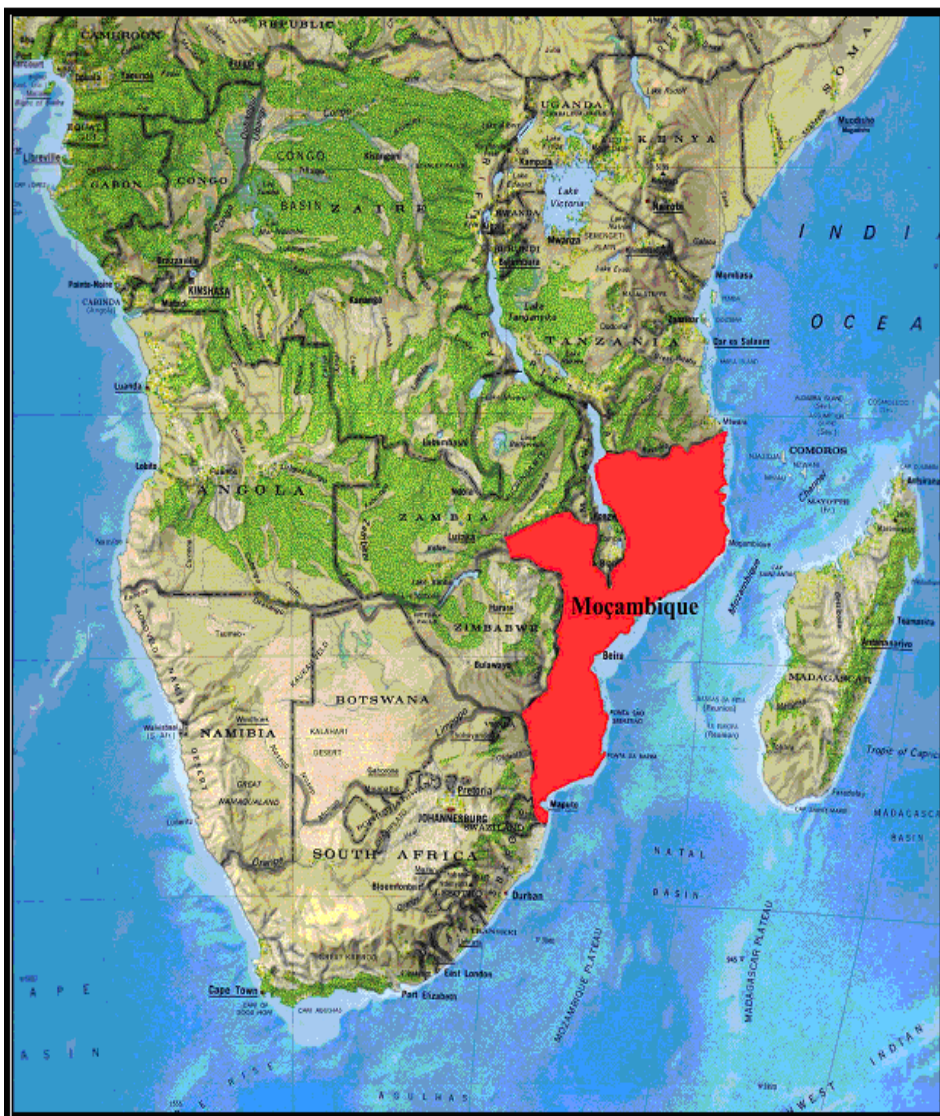
THE ENERGY POTENTIAL COUNTRY OVERVIEW

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Introduction



- ❑ Population: 20.0 million
- ❑ Surrounded by 6 neighbouring countries
- ❑ Area: 799,380 Km²
- ❑ GDP per capita: US\$956,00
- ❑ About 60 rivers & lakes with potential for power generation
- ❑ GDP Growth rate (2008): 6.5%



Energy Resource Base

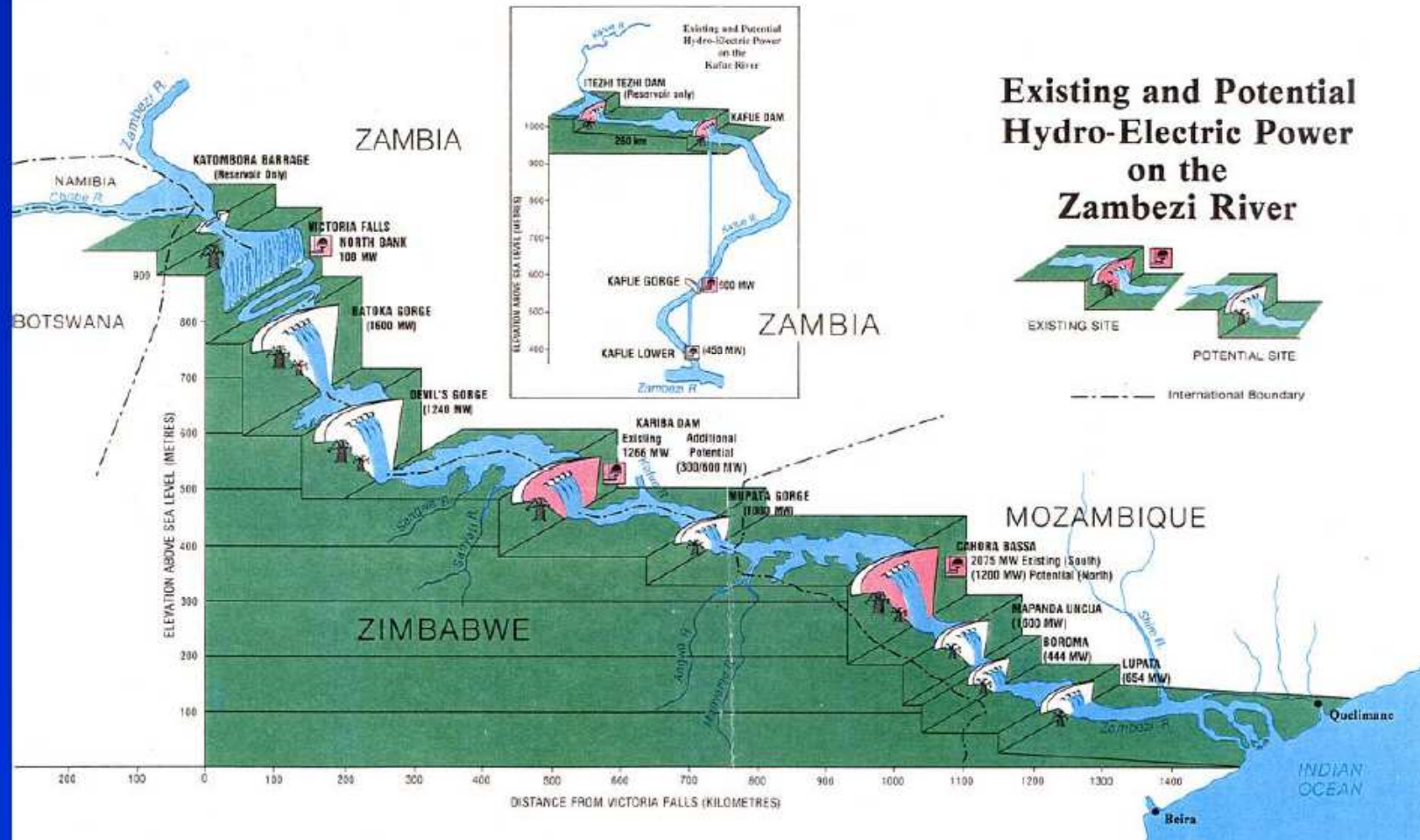
Energy potential to install more than 12000 MW new capacity and generate more than 95000 GWh/year

- **Hydropower:** 2170 MW installed generation capacity
 - 4630 MW identified projects;
- **Natural Gas:** 5.0 TCF proven reserves in the north of the southern region of the country;
- **Coal reserves:** more than 3.0 billion tones in the centre region of the country.



The energy potential in Mozambique

Zambezi River Authority





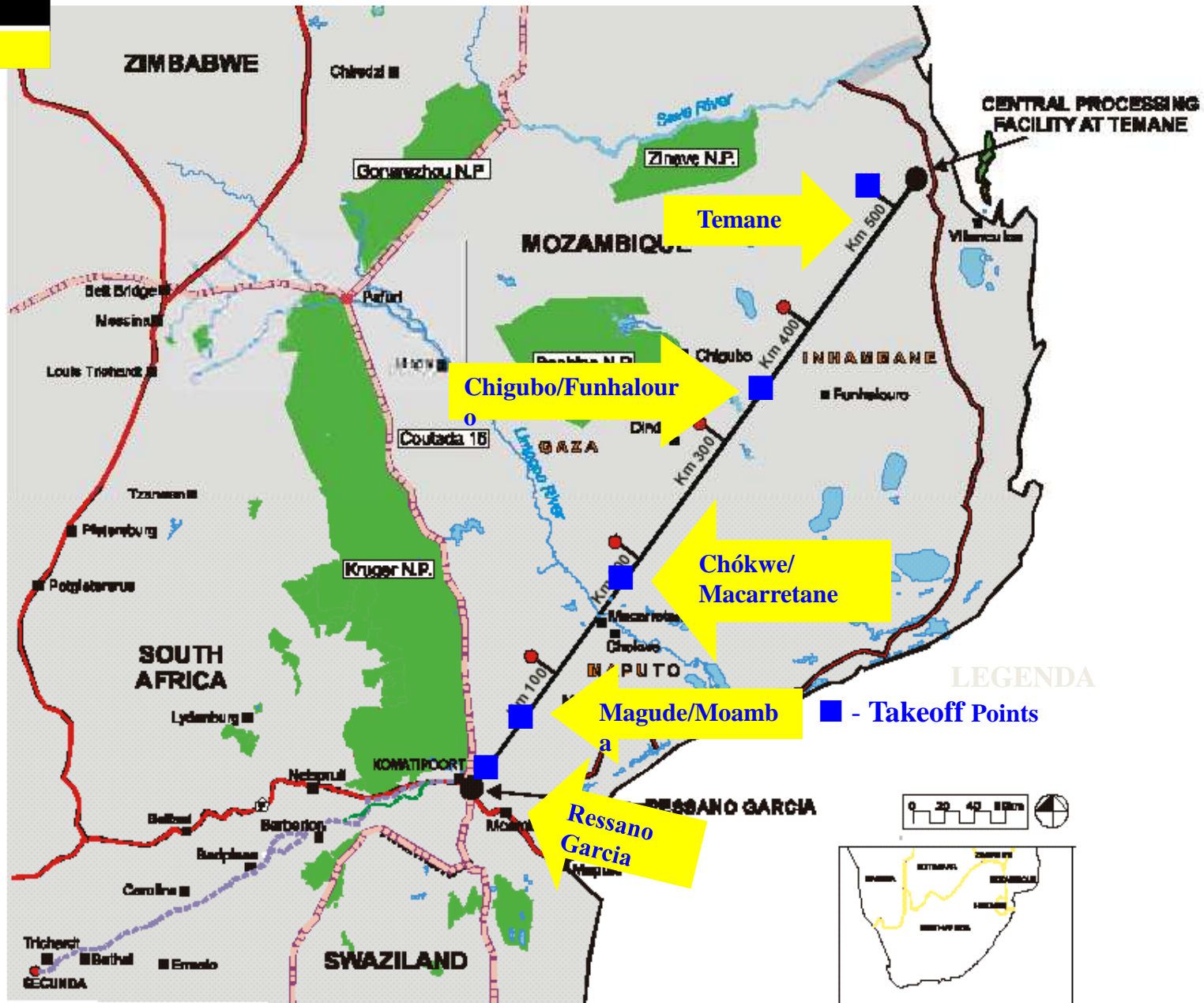
Energy Potential (hydrocarbons – coal)

- Large coal reserves in the Province of Tete (Moatize and Benga);
- Total reserves: 3 billion tonnes





LOCATION OF TAKEOFF POINTS – NATURAL GAS





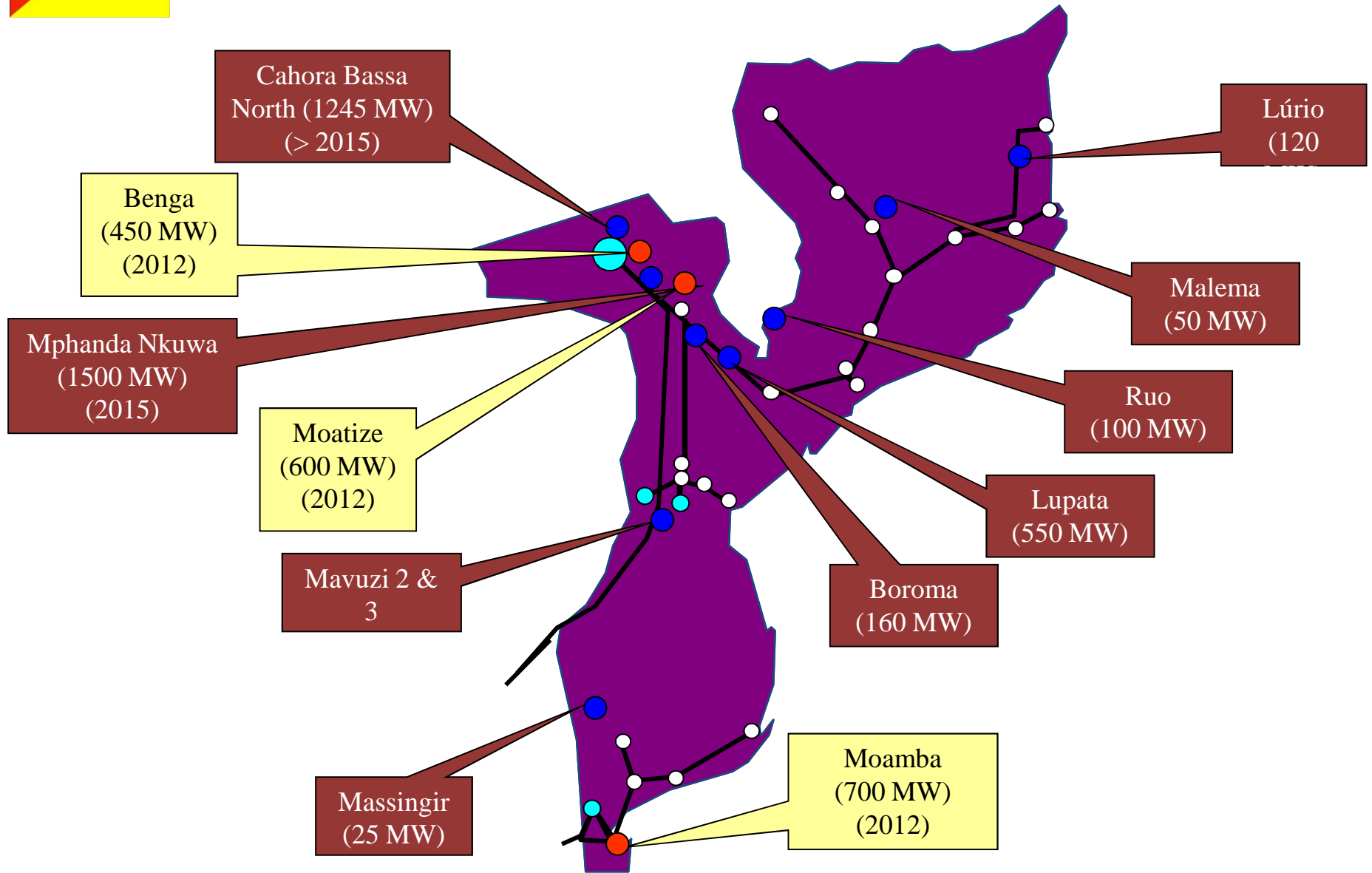
Energy Potential (renewable energies)

- The country has also substantial renewable energy resources, namely solar, wind, ocean, geothermal, biomass, among others.





Generation Projects in Mozambique



Outline of Electric Power Sector



	Generating Capacity (MW)		
	2007	2008	2010
Hydro (HCB)	2075	2075	2075
Hydro (EDM)	102.9	102.9	102.9
Gas Turbine	72.0	75.6	128.1
Diesel Engine	34.2	30.7	20.0
Others	7.9	11.3	13.0
Total	2292.0	2295.5	2339.0

Outline of Electric Power Sector



Electric Power Production (GWh)

	2007	2008	2010
Hydro (HCB)	15846.6	15984.8	16600.0
Hydro (EDM)	216.0	341.0	360.0
Gas Turbine	17.3	24.9	34.6
Diesel Engine	38.2	19.6	12.3
Others	55.0	77.8	90.0
Total	16173.1	16448.1	17096.9



Ongoing Mega Projects

Project Name	Developer	Capacity (MW)	Completion Date
Mpanda Nkuwa	Hidroelectrica de Mpanda Nkuwa	1500	2014
Moatize	EDM/AES Whatana Investments	2400	2015
Benga	ELGAS/Riversdale	2000	2015
Maputo Gas	EDM/SUEZ INTELEC	500-1000	2012
HCB North Bank	HCB	850	2012-2015



Commitment to the Global Climate

- Mozambique is part of the UNFCCC ;
- The country ratified the Kyoto Protocol;
- The country has established the Designated National Authority;
- CDM activities are being promoted;
- The country is open to implement other type of activities aiming at protecting the global climate.

