



Investment Opportunity: Energy

Concentrated Solar Power (CSP) with Thermal Energy Storage (TES)

Namibia currently imports approximately 200 MW of its 600 MW power requirement from the SADC power pool. Demand for power is also expected to grow at 5% annually.

As a viable option to replace fossil fuel fired power stations, NamPower, Namibia’s national power utility, will invest in CSP with thermal storage to combine operational flexibility with high capacity value that provides ‘flexible capacity’ requirements to the Namibian power system.

An independent power producer framework is in place which supports private ownership of large-scale power plants. NamPower, the main offtaker, is willing to form a public private partnerships (PPP) to develop a CSP plant with thermal storage.

Project Overview

The technology considered is Parabolic Trough or Central Receiver. Generation capacity of 100 MW – 150 MW is considered optimum. Feasible thermal energy storage capacity of 15 – 17 hours at solar multiple of 2 to 3. Required equity participation of between 50% and 70%. A fair and transparent solicited process through open and public bidding will be followed.

Project Timeline Summary

Tenders will be issued 01.2017, to be submitted 05.2017. A PPP will be appointed 08.2017. Operation is scheduled for 10.2020.

Investment Opportunity

Total Project Cost: USD 965 million or NAD 13 billion (NAD : USD = 13.5)

Funding split	USD million	NAD billion
Debt share: 70%	676	9.12
Equity share: 30%	290	3.91
NamPower equity shareholding:	87	1.17
Envisaged 30% - 50%	to 145	to 1.96
IPP equity shareholding:	145	1.96
Envisaged 30% - 50%	to 203	to 2.74

Contact:

Ms. Margaret Mutschler
NamPower

Tel: +264 61 205 2338

Email: margaret.mutschler@nampower.com.na