

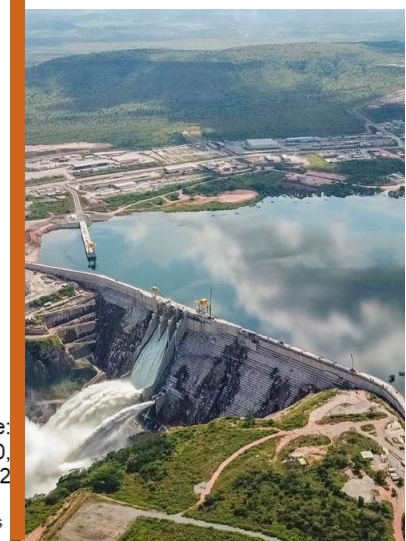
Dams of southern Africa

The largest man-made reservoir in the world (World Bank 2015), the Kariba dam, provides 40 % of the region's electricity with hydropower (IRMSA 2015). At an estimated US\$ 294 million, the dam is undergoing a ten-year rehabilitation (World Bank 2015). Without intervention, a dam failure was estimated to put 3.5 million lives at risk and impact the basic needs of 30 million people (IRMSA 2015).

SASSCAL, October 2020

References

1. FAO. 2013. Geo-referenced Database on Dams.
2. Global Energy Observatory. 2020. Current List of Hydro PowerPlants.
3. IRMSA. 2015. Impact of the failure of the Kariba dam.
4. World Bank. 2015. The Kariba Dam Rehabilitation Project: Fact Sheet.



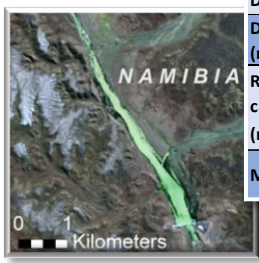
Dam Functions and Uses

- Flood Control
- Hydropower
- Irrigation
- Irrigation and Hydropower
- Water Supply
- Water Supply & Hydropower
- Water Supply & Irrigation
- Water Supply, Irrigation & Hydropower
- Water Supply, Irrigation & Flood Control
- Other or not defined

Reservoir Capacity (Million Cubic Meter)

- 100
- 500
- 1000
- 2000
- 3000

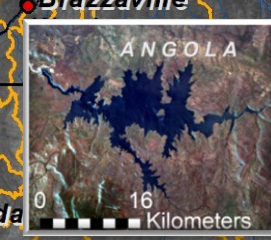
Hydrobasins



Neckartal	
Country	Namibia
Nearest city	Keetmanshoop
River	Fish
Sub-basin	Fish
Date	2019
Dam height (m)	80
Reservoir capacity (million m ³)	880
Main use	Irrigation

Country	Total Dam Capacity (km ³)	Hydropower Production (GWh)
Angola	9.44	7 109
Botswana	0.45	-
Namibia	1.55	1 359
South Africa	31.02	3 893
Zambia	101.10	11 027
Zimbabwe	99.93	3 551

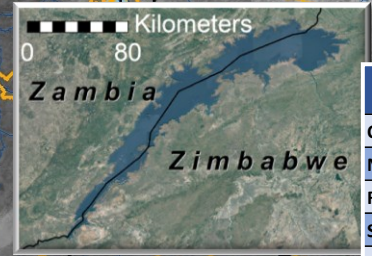
Based on FAO Aqustat (2013 to 2017), IEA Renewable Electricity Capacity And Generation Statistics (2018), NamWater (2020)



Laúca	
Country	Angola
Nearest city	Cacuso
River	Cuanza
Sub-basin	Cuanza
Date	2020
Dam height (m)	132
Reservoir capacity (million m ³)	5 482
Main use	Hydro-Power
Potential power supply (MW)	2 060



Dikgatlong	
Country	Botswana
Nearest city	Selibe Phikwe
River	Shashe
Sub-basin	Shashe Basin
Date	2012
Dam height (m)	41
Reservoir capacity (million m ³)	400
Main use	Water Supply



Kariba	
Country	Zambia
Nearest city	Lusaka
River	Zambezi
Sub-basin	Zambezi
Date	1959
Dam height (m)	128
Reservoir capacity (million m ³)	181 000
Main use	Hydro-Power
Potential power supply (MW)	1 080

Gariep	
Country	South Africa
Nearest city	Oranjekrag
River	Orange
Sub-basin	Orange
Date	1979
Dam height (m)	
Reservoir capacity (million m ³)	5 674
Main use	Hydro-Power, Irrigation and Water Supply
Potential power supply (MW)	360

