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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** African Power Pools

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**Template:** DCC Template

**Project abstract:**

The project aims to analyze three of the five African power pools, collect data about them from secondary sources as well as primary sources via interviews and surveys. After the analysis phase, different design options will be proposed.

**ID:** 72258

**Start date:** 25-11-2020

**End date:** 31-08-2021

**Last modified:** 27-03-2021

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# African Power Pools

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## Data Collection

### What data will you collect or create?

I will be collecting quantitative data about generation capacity, installed capacity, generated electricity, infrastructure projects, tariffs, investment amount, transmission length and pricing, generation mix, potential renewable energy, electricity access, natural resources (gas, coal, oil, hydro), trading amount of electricity (cross-border), electricity consumption, outages, electricity price, GDP, population, economic growth, the Corruption Perceptions Index (CPI), and the Country Policy and Institutional Assessment (CPIA). This data will be collected for each power pool (SAPP, WAPP and EAPP) and the constituting countries (34 African countries).

I will also be collecting qualitative data about the governance, institutions, regulation, policies, disputes, and challenges facing companies. Likewise, this will be done for each power pool.

Data format is preferably CSV for Quantitative data, while Qualitative data is descriptive.

No prior anticipation of the volume of data. Most of the data to be collected are already existing except for some qualitative data that will be collected as primary data.

### How will the data be collected or created?

Quantitative data will be collected from open data sources and secondary reports including the World Bank open data, the U.S. Energy Information Administration (EIA), the International Energy Agency (IEA), the Africa Infrastructure Country Diagnostic Database, African Development Bank, and the Private Participation Infrastructure database (PPI). Reports sources include the International Renewable Energy Agency IRENA and official reports published on the websites of the power pools.

Qualitative data will be collected from the scientific literature, interviews and maybe surveys.

Each power pool will have a separate data folder and one folder will be later created for combining the data for comparative analysis. Each excel file will be in the following format:

Year\_TypeOfData\_Source

Qualitative data will only be collected from trustworthy sources, while primary data of interviews (semi-structured) and surveys (maybe) will be according to the scientific conventions (to be determined later on of: Arksey and Knight 1999, Patton 2002, Hammersley and Atkinson 2007, Spradley 1979, Kvale and Brinkmann 2009)

## Documentation and Metadata

### What documentation and metadata will accompany the data?

No thorough description of data will be needed, mainly the measurement units for quantitative data and records for qualitative data from interviews with a short description.

## Ethics and Legal Compliance

### How will you manage any ethical issues?

Quantitative data will be open source-based, however, qualitative data depends on the interviewee, although it would be discouraged, but keeping their identity anonymous will be done upon request

### How will you manage copyright and Intellectual Property Rights (IPR) issues?

Data will be meant to keep it open for reuse without any restriction, proper citation for the reference sources and interviews content will be established

## Storage and Backup

### How will the data be stored and backed up during the research?

Data will be stored on the local computer of the researcher as well as a backup on external drivers and online drivers like Google drive of the researcher's personal account.

### How will you manage access and security?

For the publication, data will be published with open access on the university's website without modification right and it will be scanned first for any possible corruption

## Selection and Preservation

### Which data are of long-term value and should be retained, shared, and/or preserved?

To be determined later with the university

### What is the long-term preservation plan for the dataset?

TBD

## Data Sharing

### How will you share the data?

Data will be shared with the university facility if agreed upon, otherwise on personal account.

### Are any restrictions on data sharing required?

no restrictions

## Responsibilities and Resources

### Who will be responsible for data management?

The researcher.

### What resources will you require to deliver your plan?

None