

The Electricity Landscape of South Africa

Station status filter

1st Unit Operational

Awaiting construction

Decommissioned

Operational

Project on hold

Under construction

22.26%

Annual Population growth rate

-1.36%

Average of Electricity Generated growth rate

38

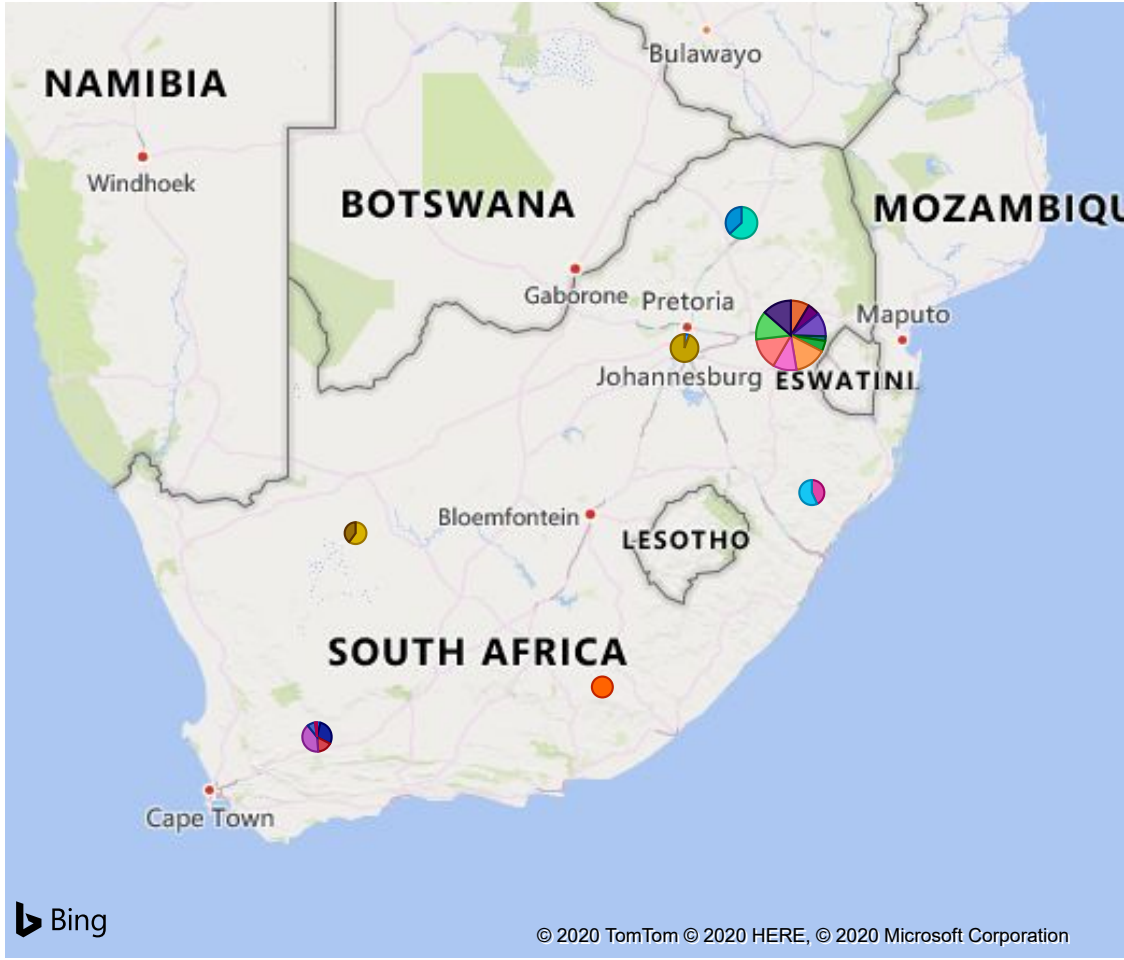
Number of Stations

YEAR

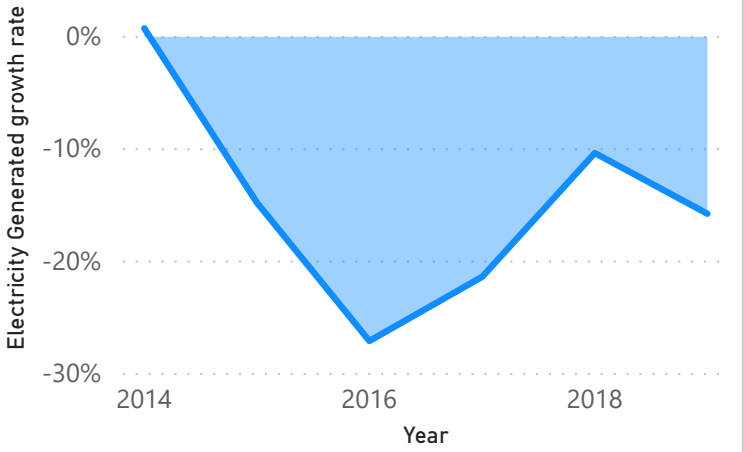
20142019

Location of Power Stations

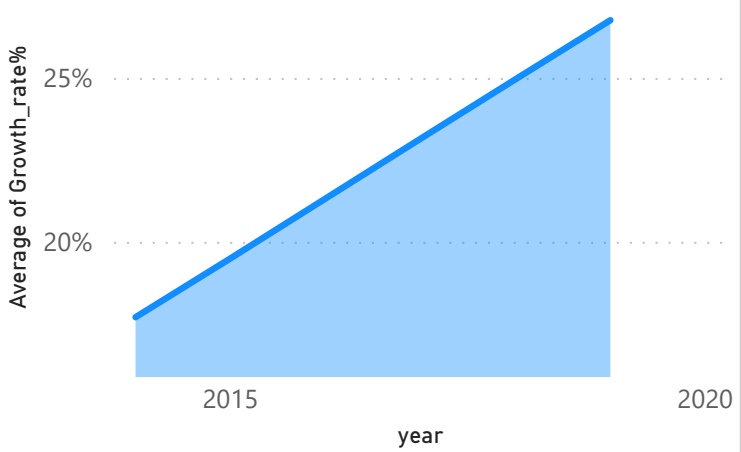
station_name Acacia Ankerlig Arnot Camden Drakensberg Duvha



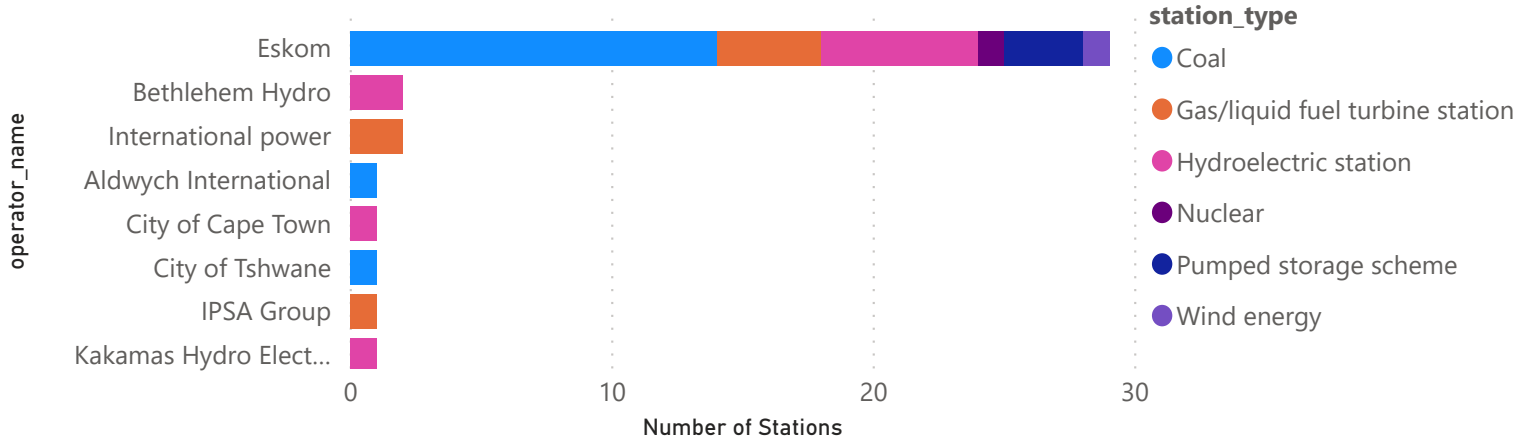
Electricity Generated Annual growth rate



Population Annual Growth rate%



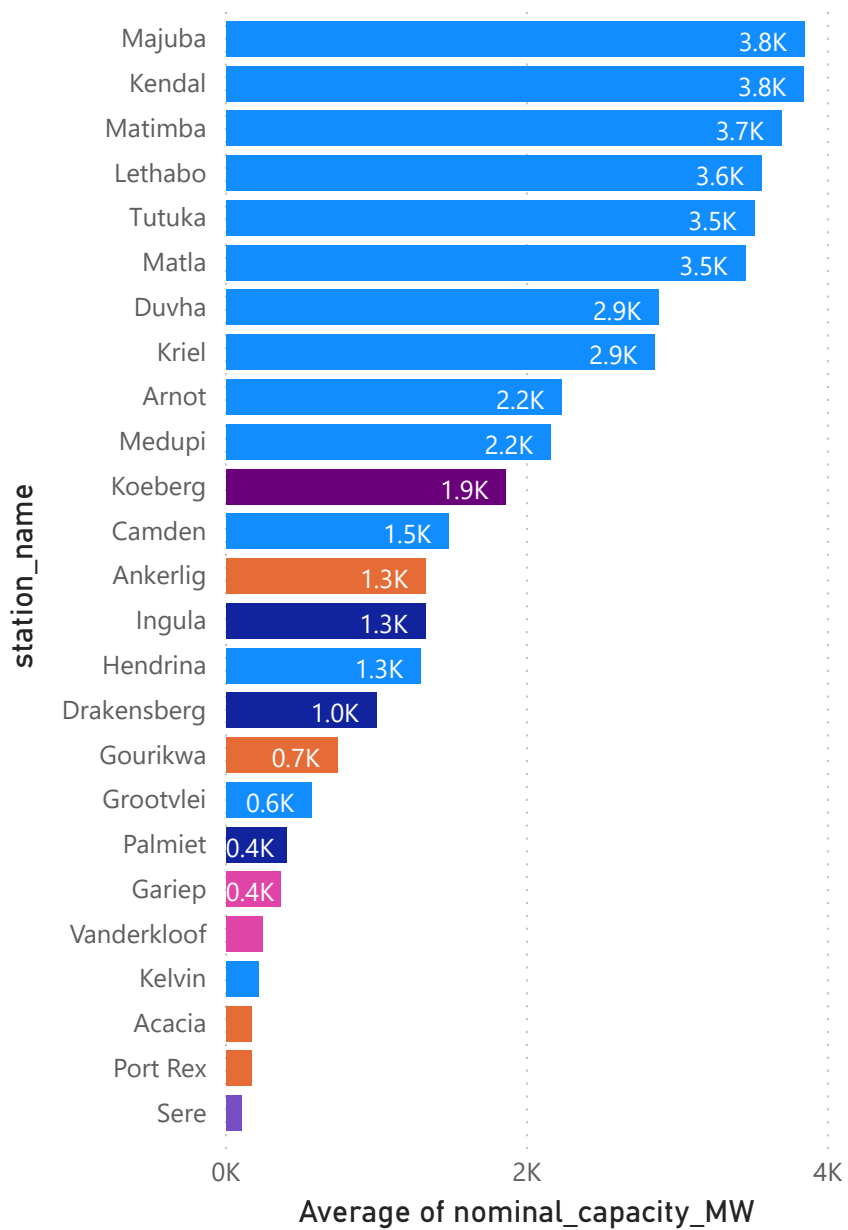
Number of Stations by operator_name and station_type



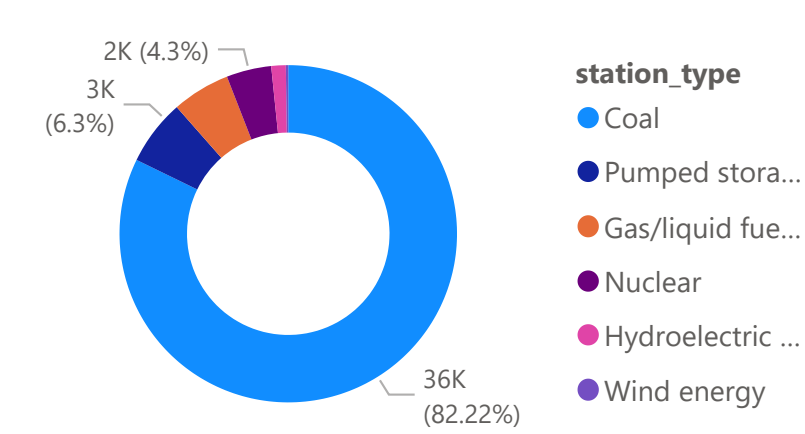
The Electricity Supply Infrastructure

The Nominal Capacity by Station

station_type ● Coal ● Gas/liquid f... ● Hydroel... ● Nuclear ▶



nominal_capacity_MW by station_type



status

- 1st Unit Operational
- Awaiting construction
- Decommissioned
- Operational
- Project on hold
- Under construction

35

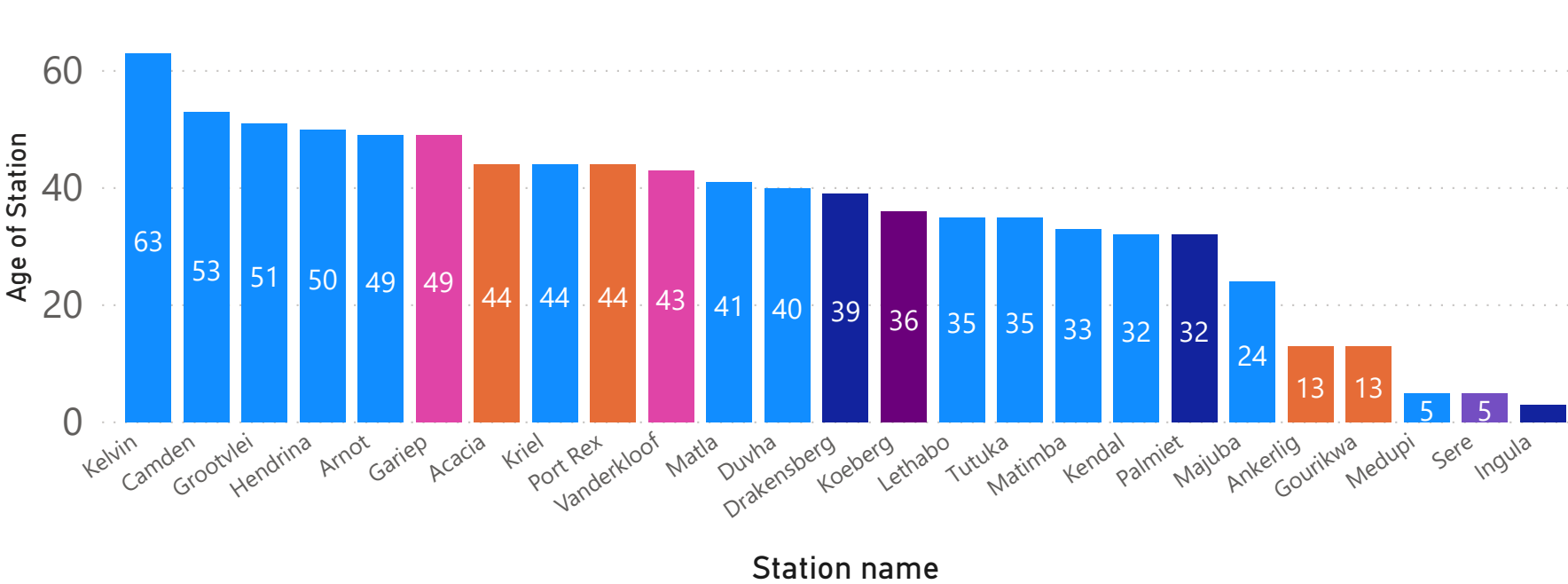
Average age of station

25

Numer of Station with a nominal capacity

The Age of the Power Stations

station_type ● Coal ● Gas/liquid fuel turbine station ● Hydroelectric station ● Nuclear ● Pumped storage scheme ● Wind energy



The Impact of Power Stations Breakdown on areas in South Africa

3M

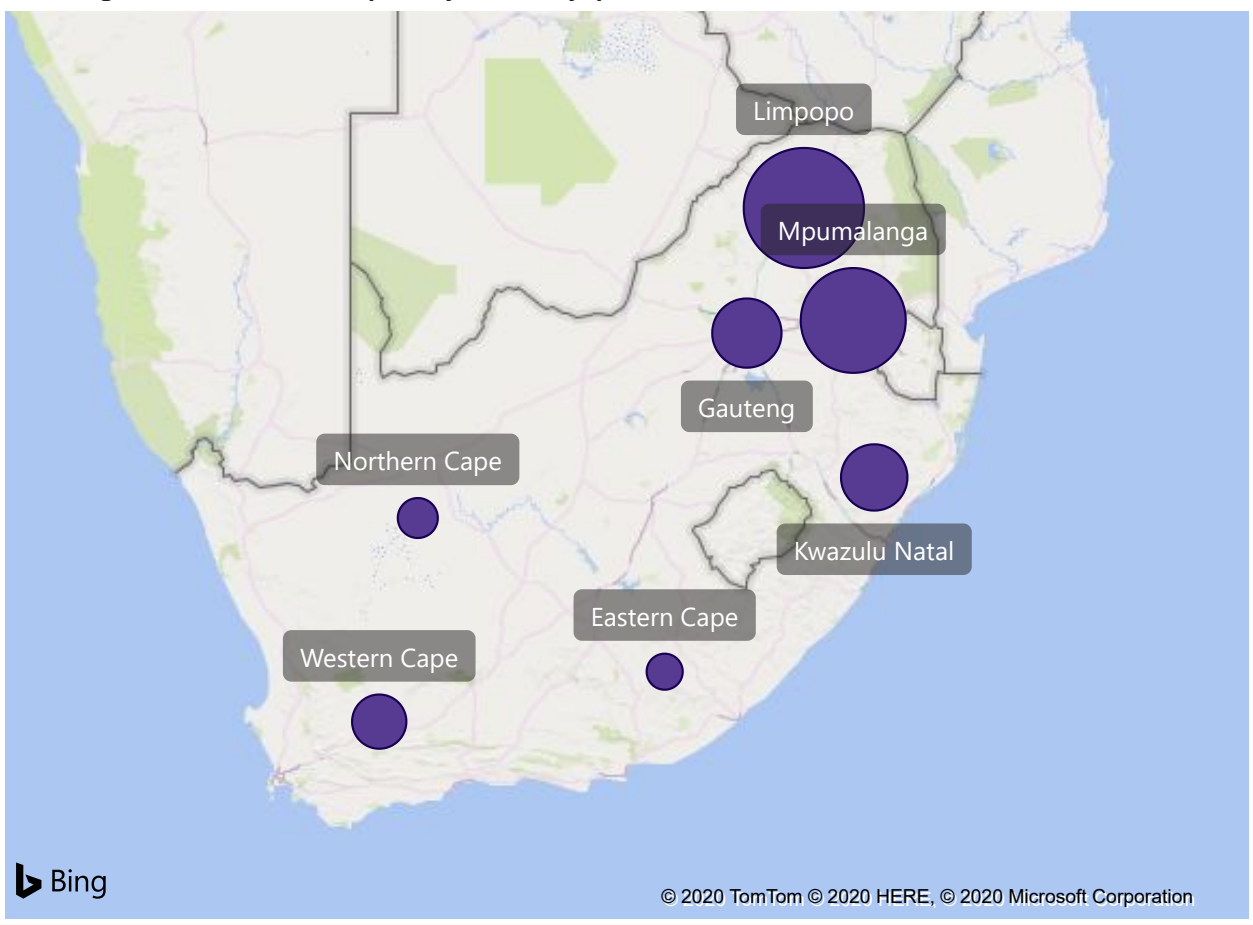
Number of Households

43

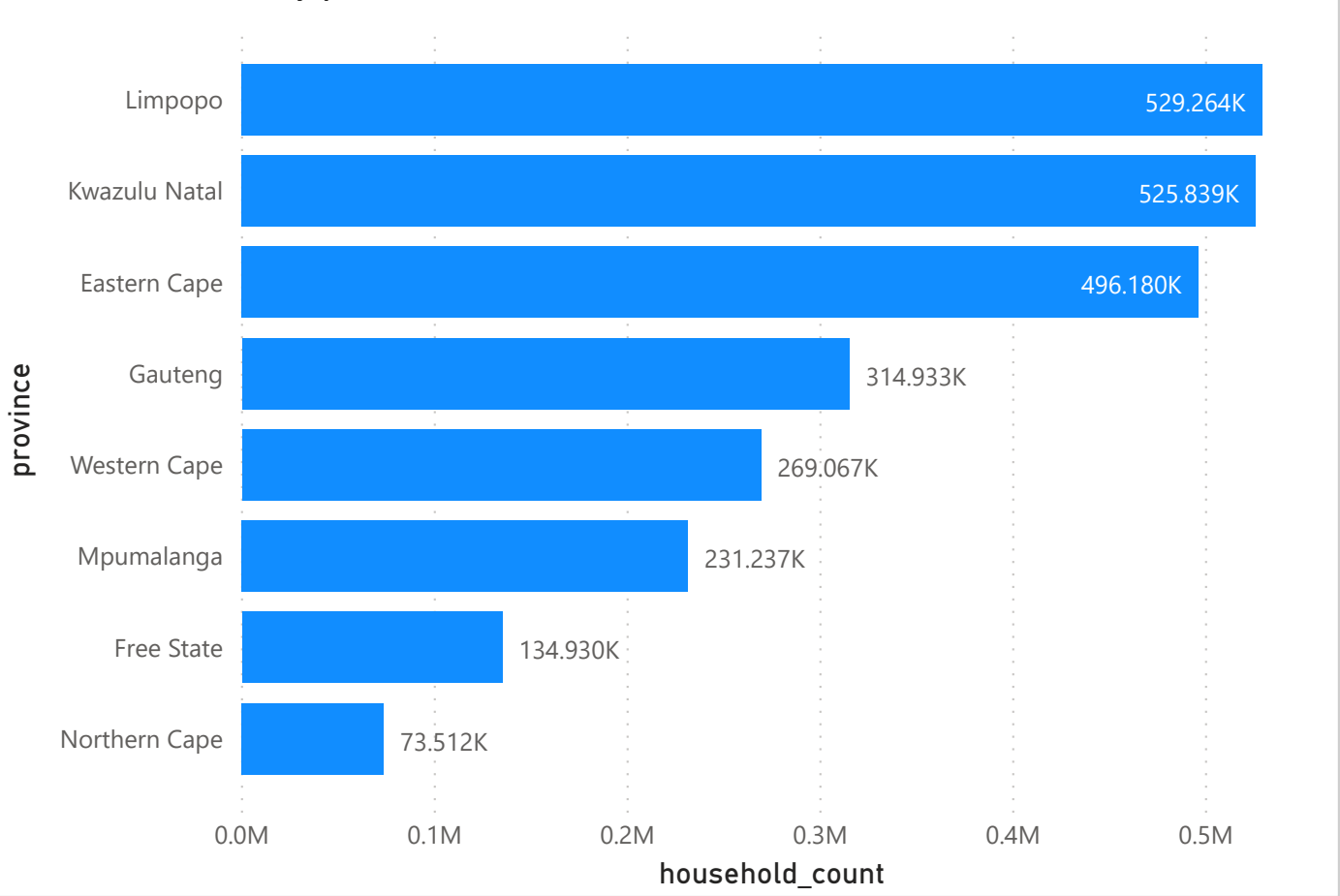
Number of Stations

province				
Eastern Cape	Gauteng	Limpopo	North West	Western Cape
Free State	Kwazulu Natal	Mpumalanga	Northern Cape	

Average of nominal_capacity_MW by province



household_count by province



3 Factors in deciding which Power stations ESKOM should be investing in

province

Eastern Cape

Free State

Gauteng

Kwazulu Natal

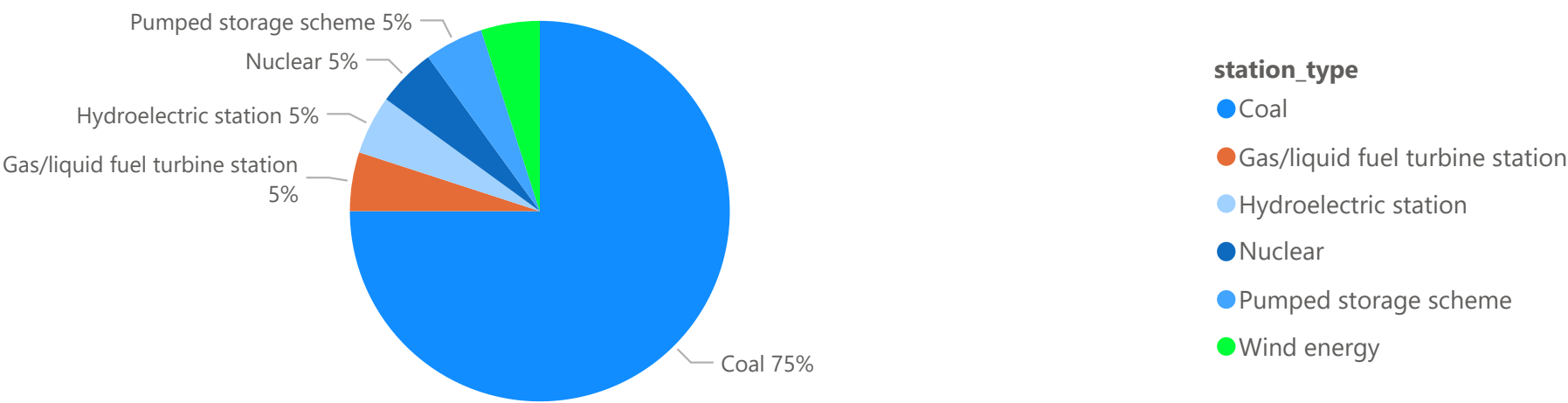
Limpopo

Mpumalanga

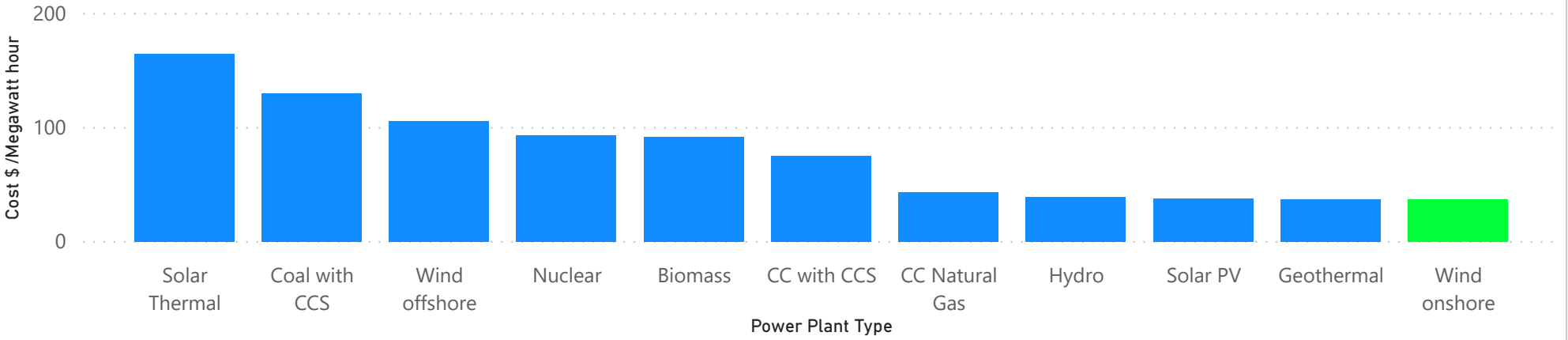
North West

Northern Cape

SUSTAINABILITY : Count of planned_decommissioning_year by station_type



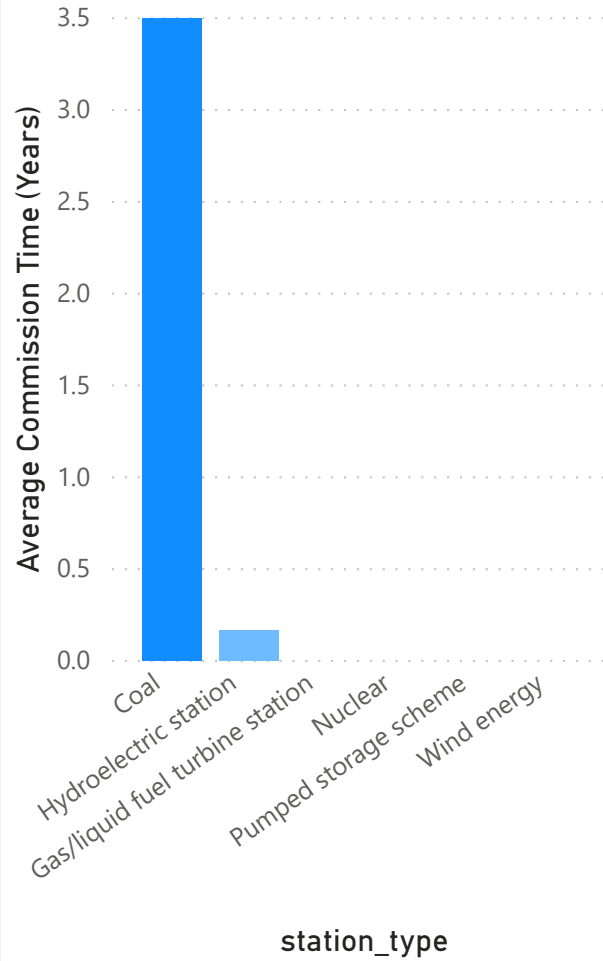
ECONOMIC CONSTRAINT : Cost \$ /Megawatt hour by Power Plant Type



1.51

Average of Commission time

Average of Commission time by station_type



Twitter Data Analysis

Municipality Filter

eThekweni

Johannesburg

333

Number of tweets

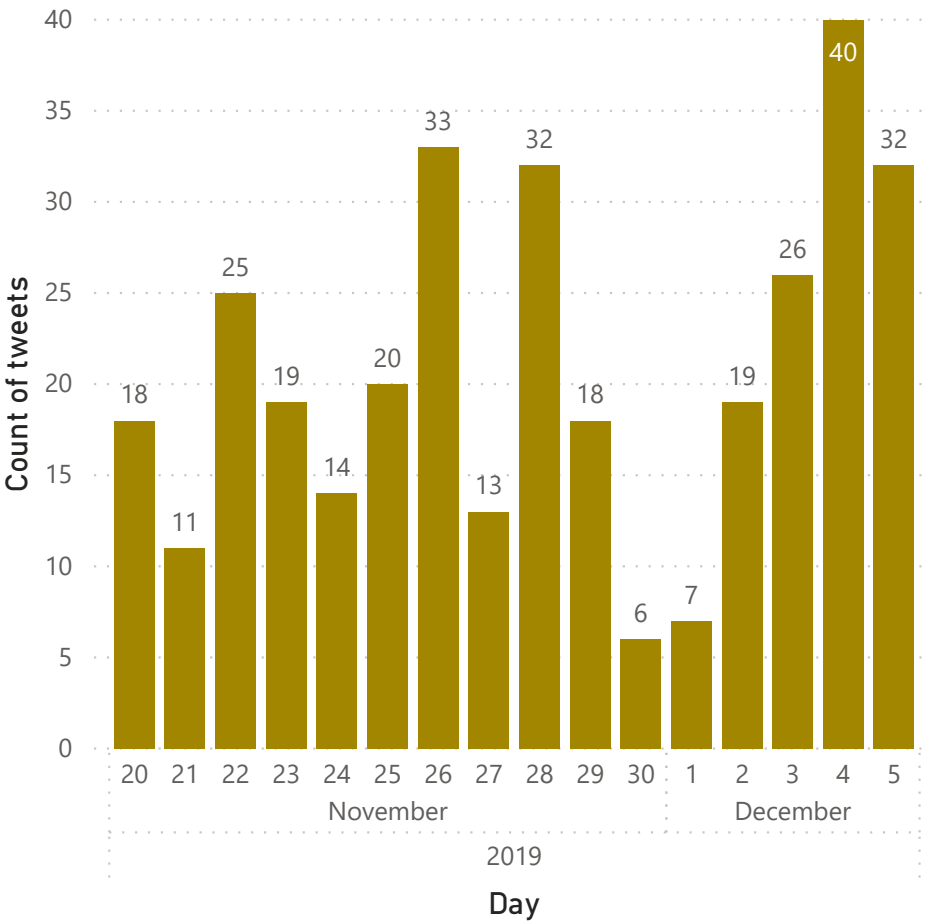
78

Number of unique hashtags

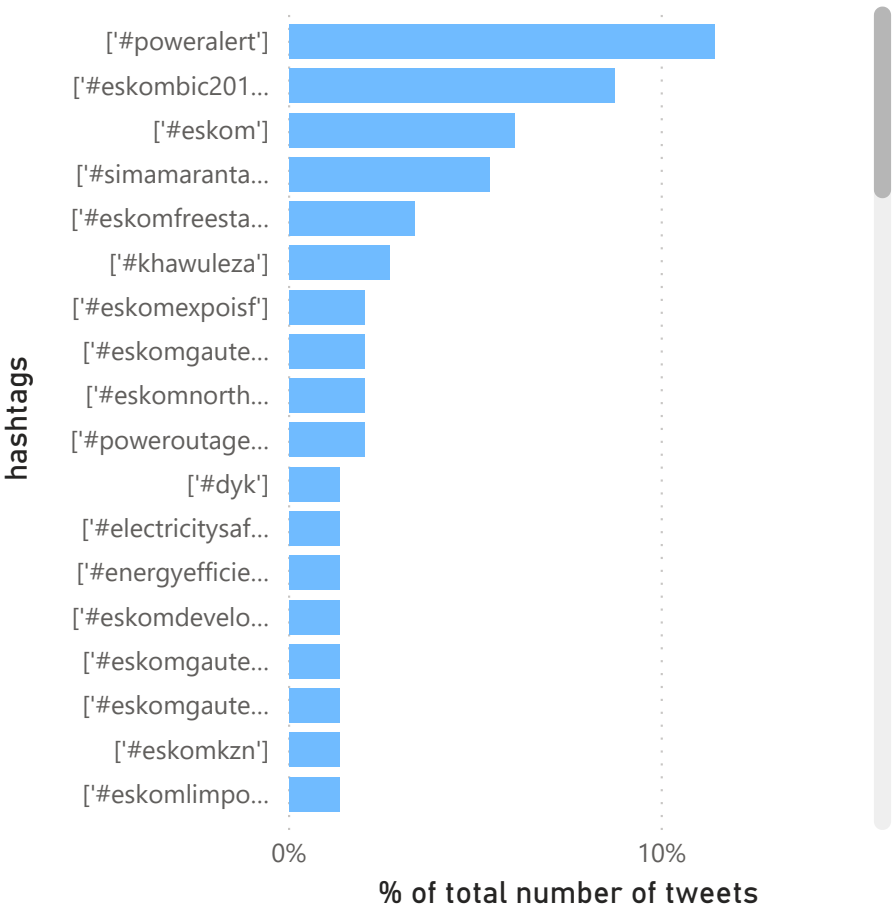
3

Municipalities mentioned

Number of tweets by Year, Month and Day



Number of tweets by hashtags



Number of tweets by Municipality

