

2025 (August) South African Renewable Energy Grid Survey



Results Summary 2025 vs 2024

Contributions

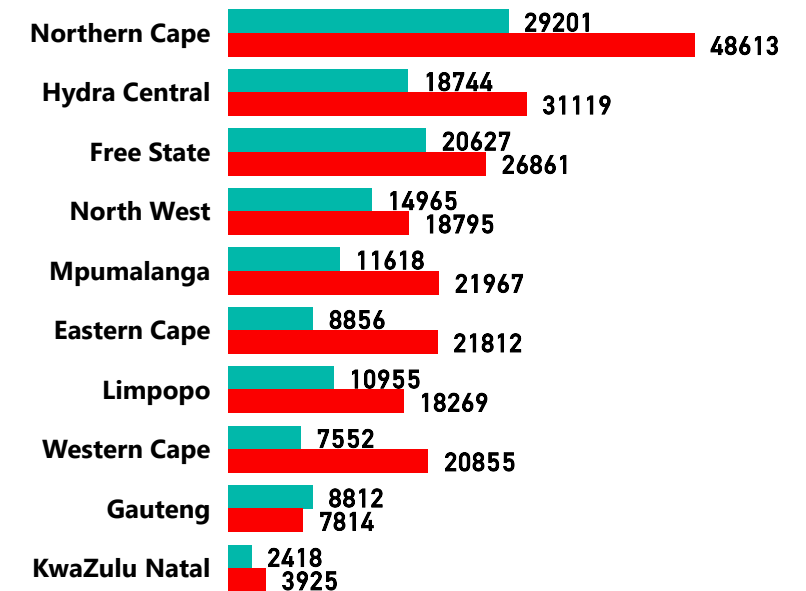
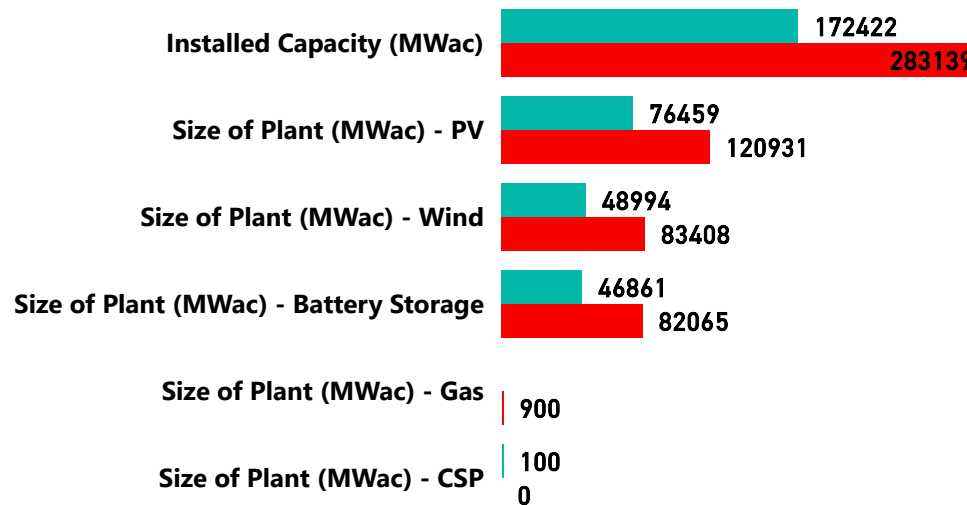
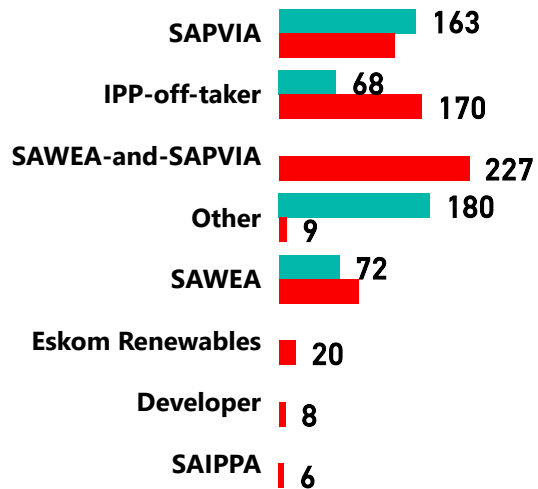
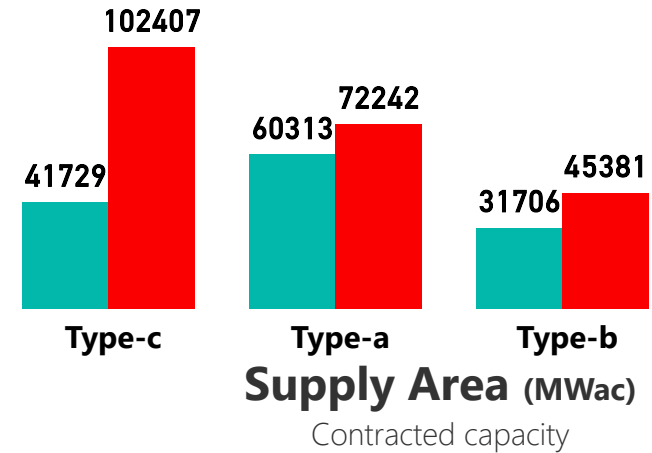


Contracted Capacity (MWac)

Contracted - grid capacity (MEC)



Project Type / Status (MWac)



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Type

A: Project is at an Advanced Development Level.

Environmental Approval/ Record of Decision (ROD) has been granted (contributor willing to provide application reference number). The site measurement campaign and feasibility work has been completed. PPA signed or close to signature/or project would be ready to bid into the nearest REIPPP round. Projects in this category would be able to reach COD within 3 years if granted a grid connection by Eskom or the Municipality immediately. For Embedded generation projects, the project will be ready to be connected to the embedded network within 3 years.

Type

B: Project is Under Development.

Draft EIR (Environmental Impact Report) submitted or Basic Assessment report submitted (willing to provide EIA application reference number). Bird and bat monitoring already progressed (Wind only). Feasibility studies and layout are advanced or completed. Project off-taker or intended off-taker not yet finalized but in progress. Measurement campaign completed (or near completion) for 12 months. Projects in this category would be able to reach COD within 5 years if granted a grid connection by Eskom Immediately.

Type

C: Project is in Early stage of Development.

Projects in this category are still in feasibility/prefeasibility stage. Bird and bat monitoring about to begin (Wind only). Measurement campaign in progress. Developer has however identified an off-taker in the area or has interest in developing a Solar or Wind project in the area without an off-taker. Developer sees potential for future development in this area and intends commissioning feasibility studies and EIAs. Projects could reach COD within 5-7 years.

Installed (MWac)

The installed (MWac) is the total capacity of all PV, Wind, Batteries installed at the facility (nameplate). This may be different from the grid capacity required.

Contracted (MWac)

The contracted (MWac) that is required to be connected to the grid (MEC). The plant installed capacity considered.

Example

For example a facility could consist 100MW PV plant and 50MW battery but only requires 120MW grid capacity.

In this example 150MW is the installed (MWac) capacity and the 120MW is the connected capacity.

Results Summary

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Contracted (MWac)

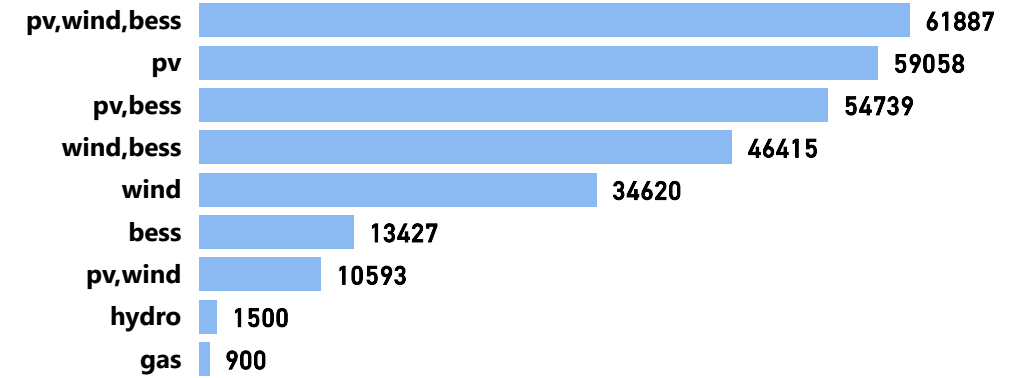
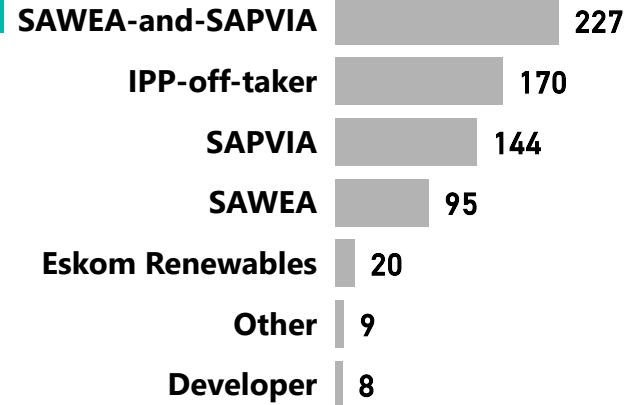
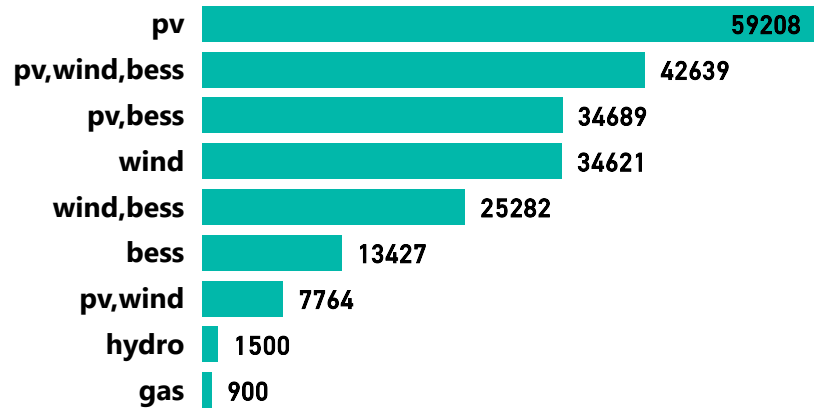
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Contributions

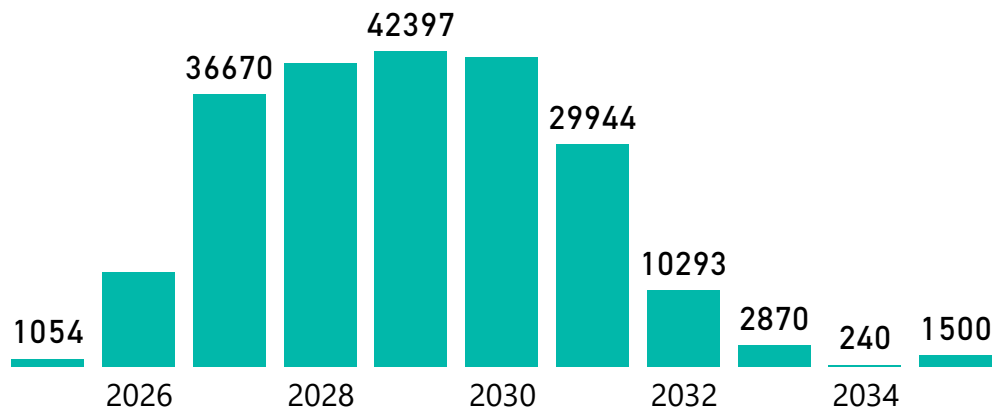
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Installed (MWac)

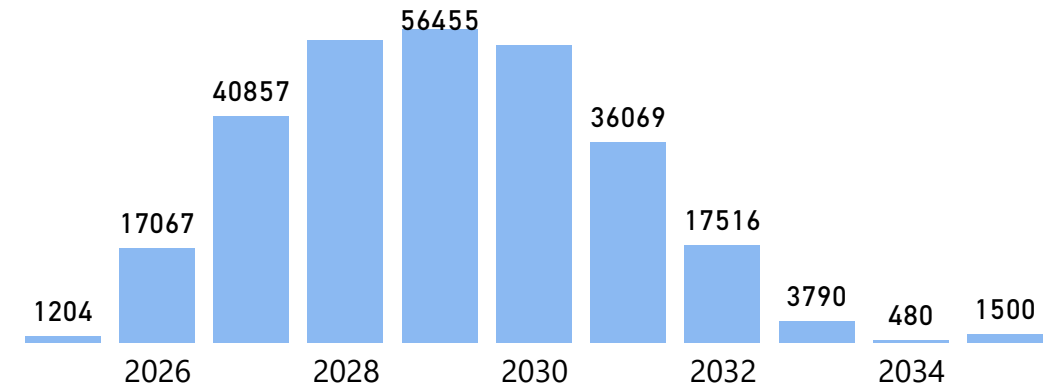
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MWh of Battery Storage



- Type-a
- Type-b
- Type-c



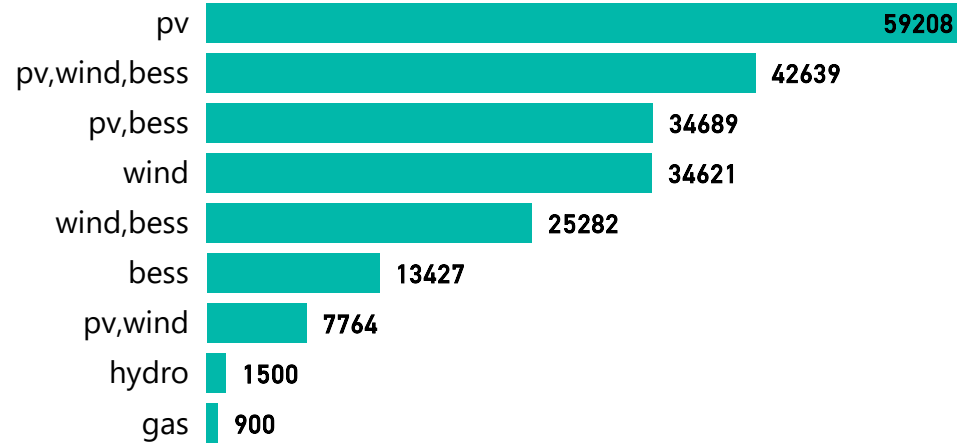
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Contracted vs Installed

Contracted - MEC and
Installed - Nameplate

Contributions

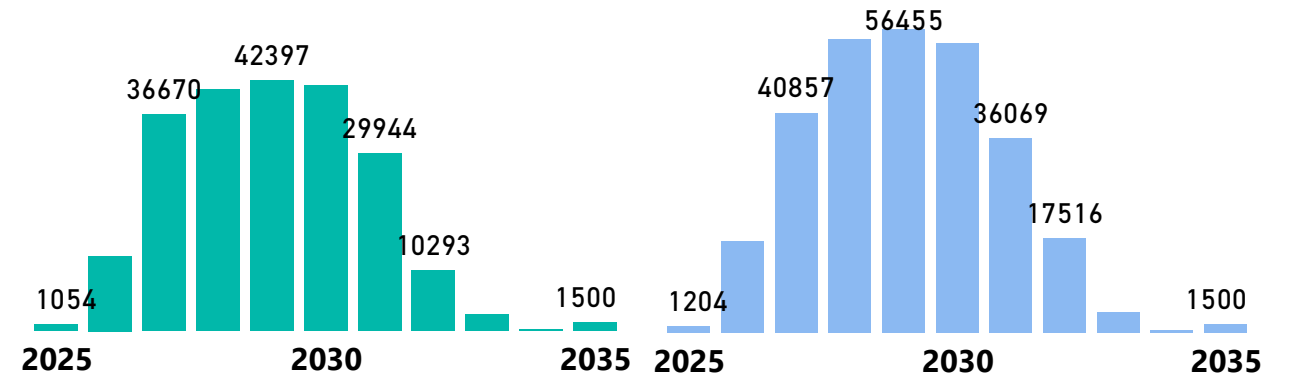
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Contracted (MWac)

220030

- Type-a
- Type-b
- Type-c

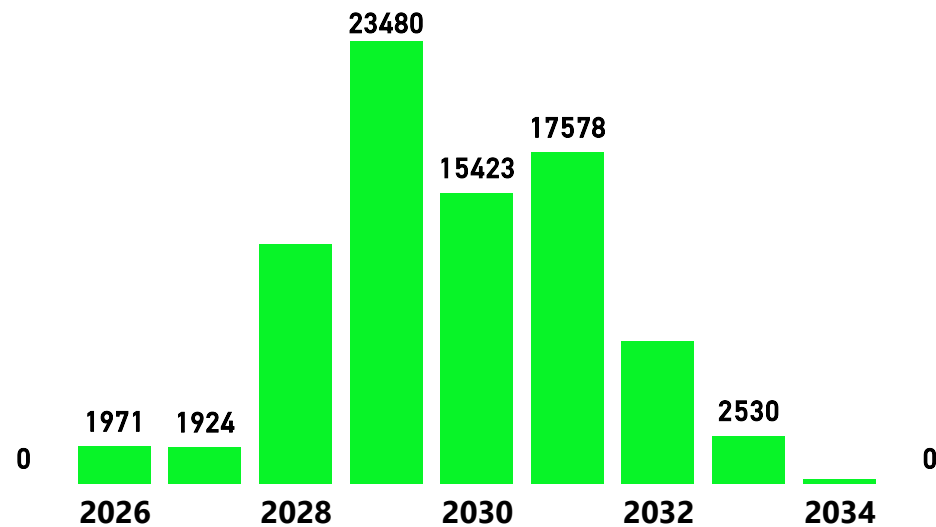


Installed (MWac)

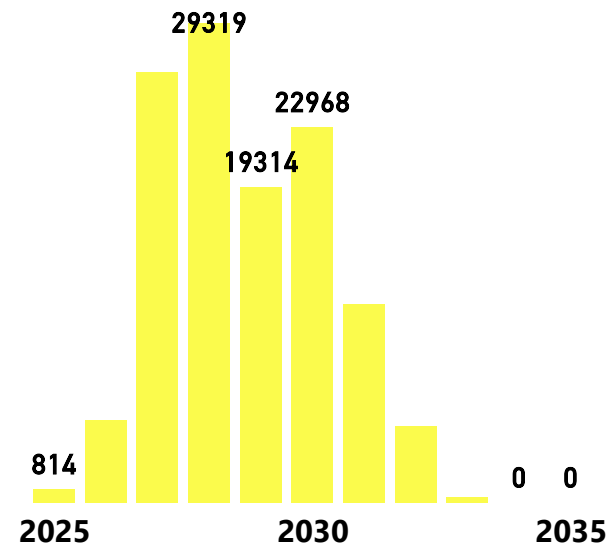
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Technology

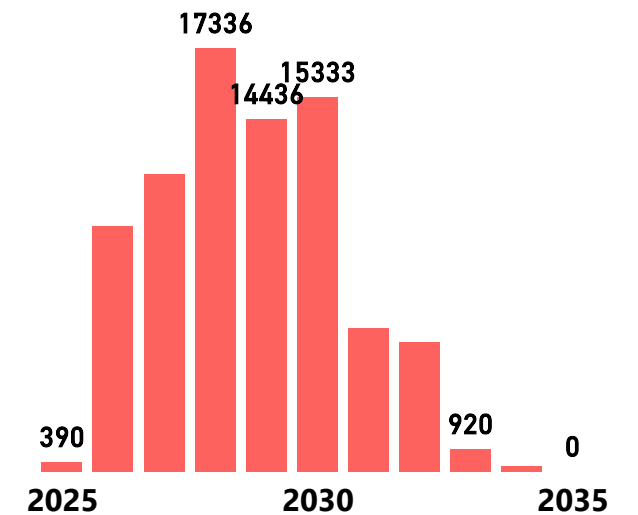
Wind (MWac)



PV (MWac)



Battery (MWac)



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Results

Contracted (MWac)

Contracted - MEC

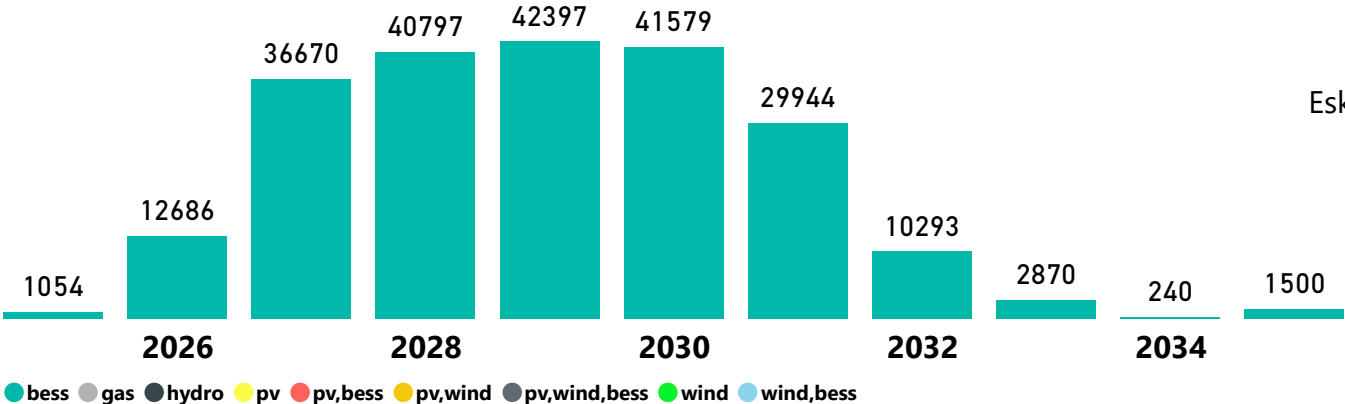
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Contracted (MWac)

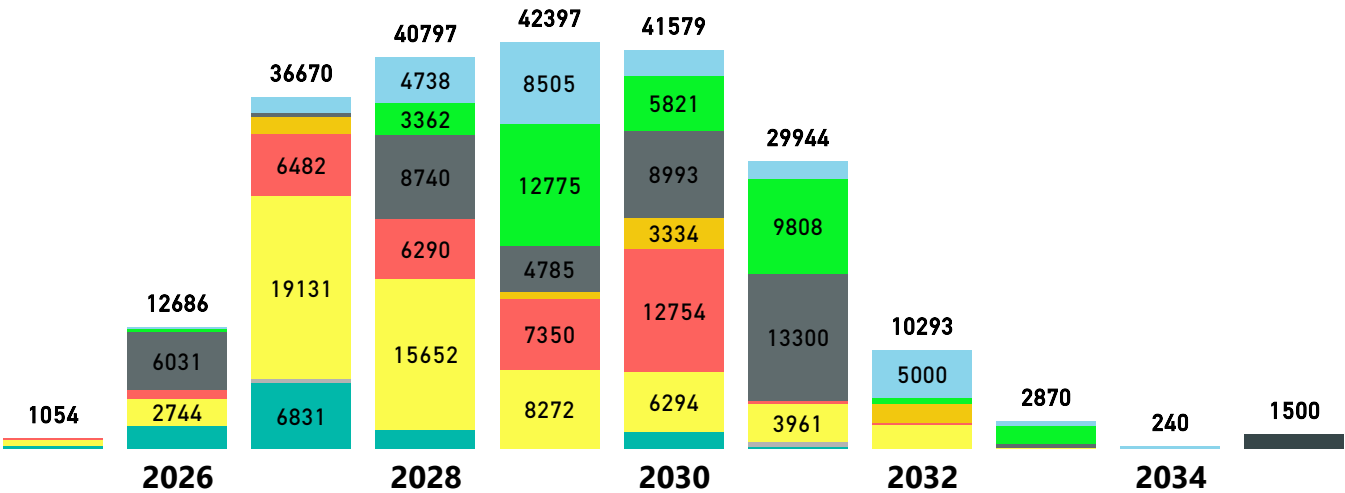
Installed - Nameplate

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Contracted (MWac) Annual build

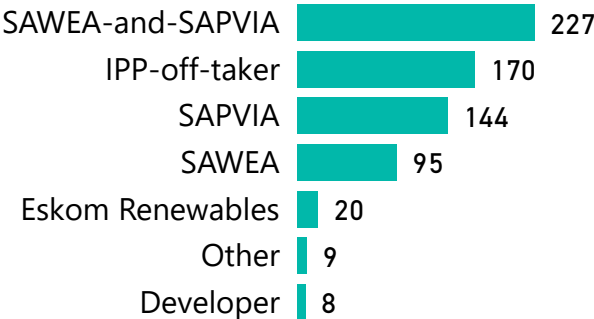


● bess ● gas ● hydro ● pv ● pv,bess ● pv,wind ● pv,wind,bess ● wind ● wind,bess

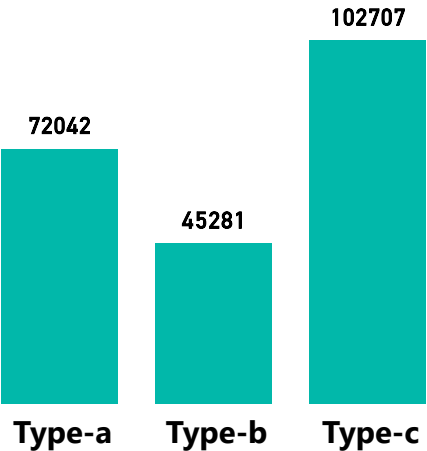


Number of contributions

673

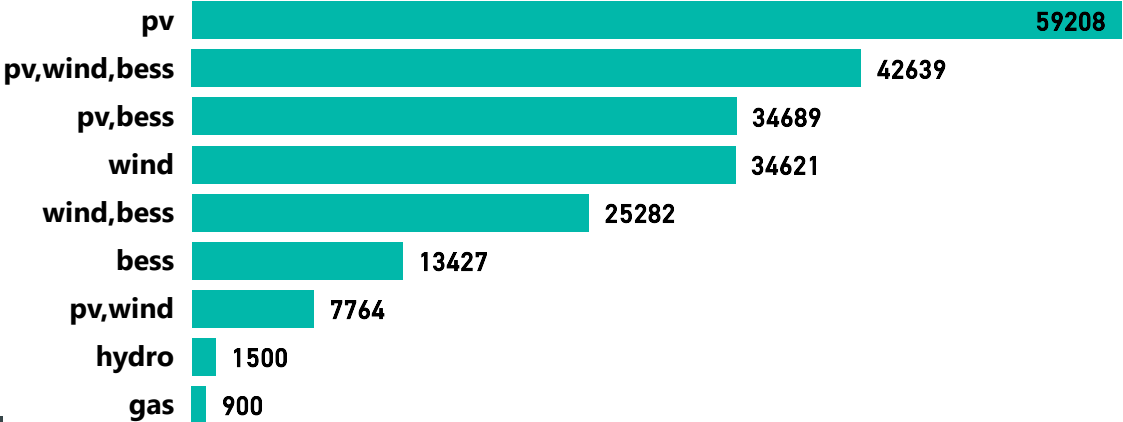


Project Status



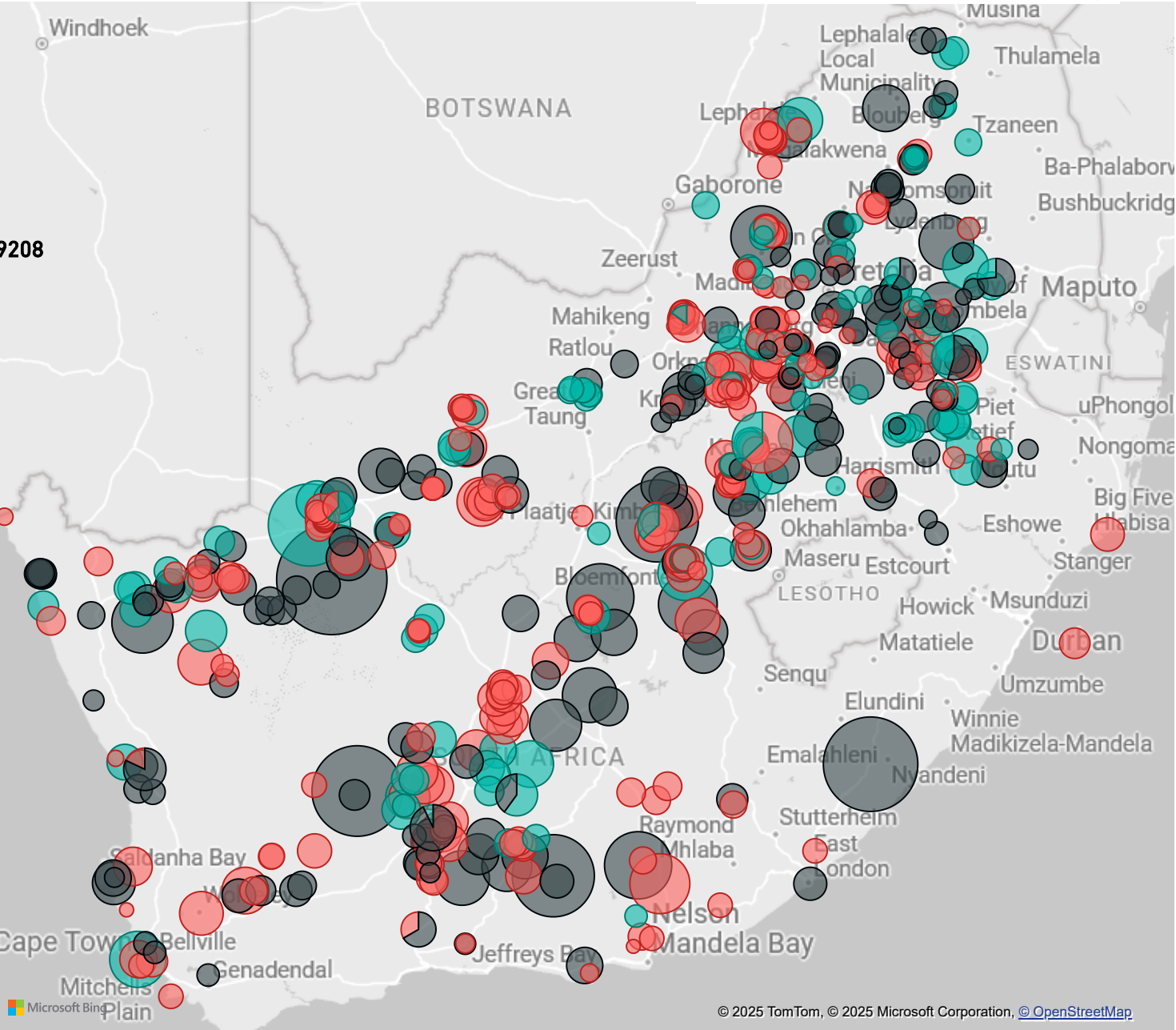
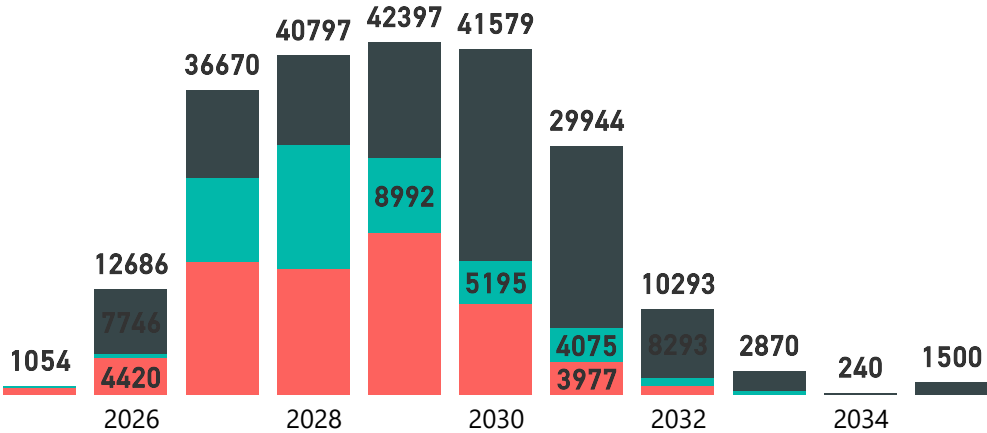
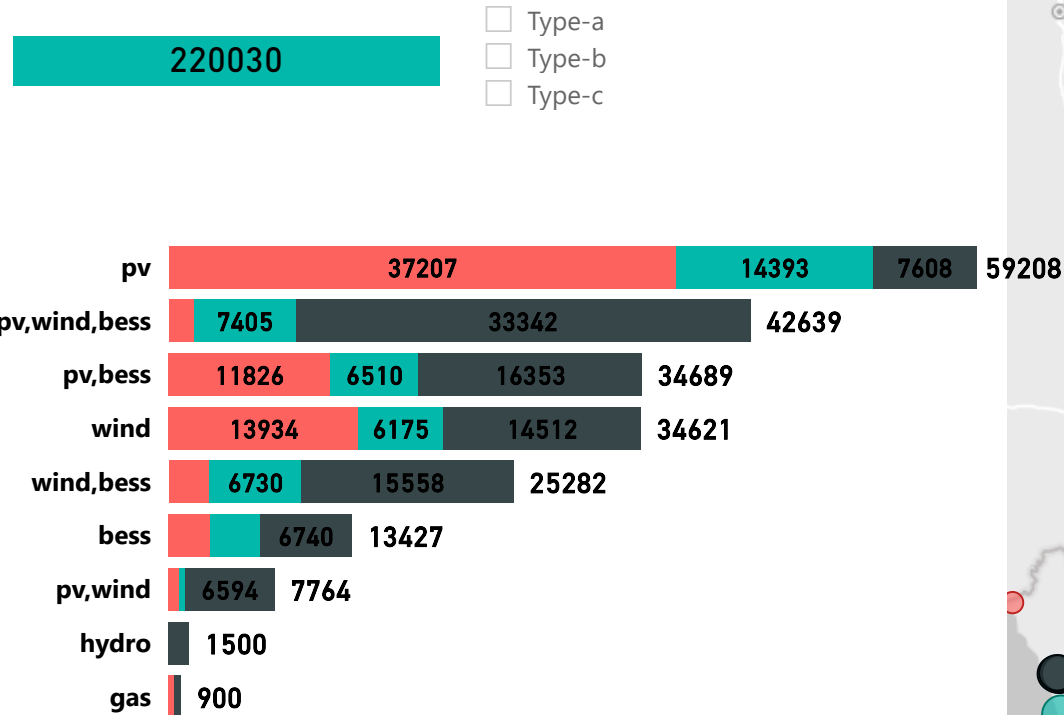
□ Type-a
□ Type-b
□ Type-c

Technology

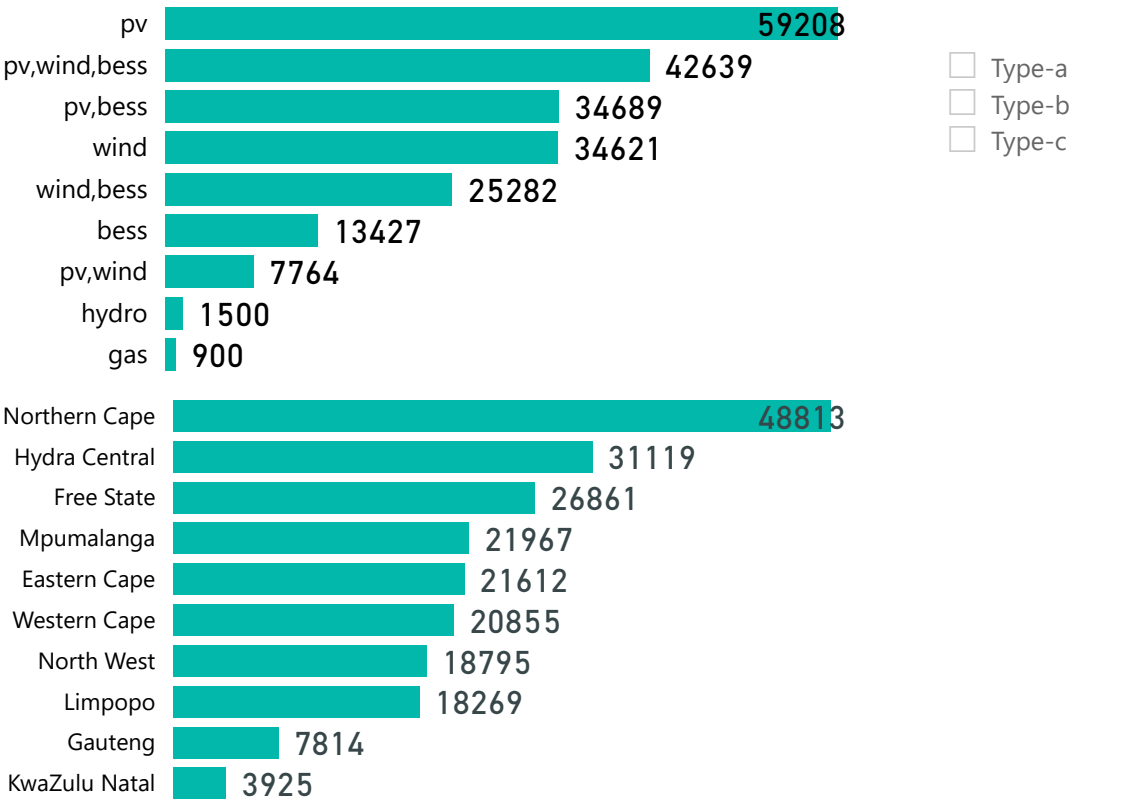
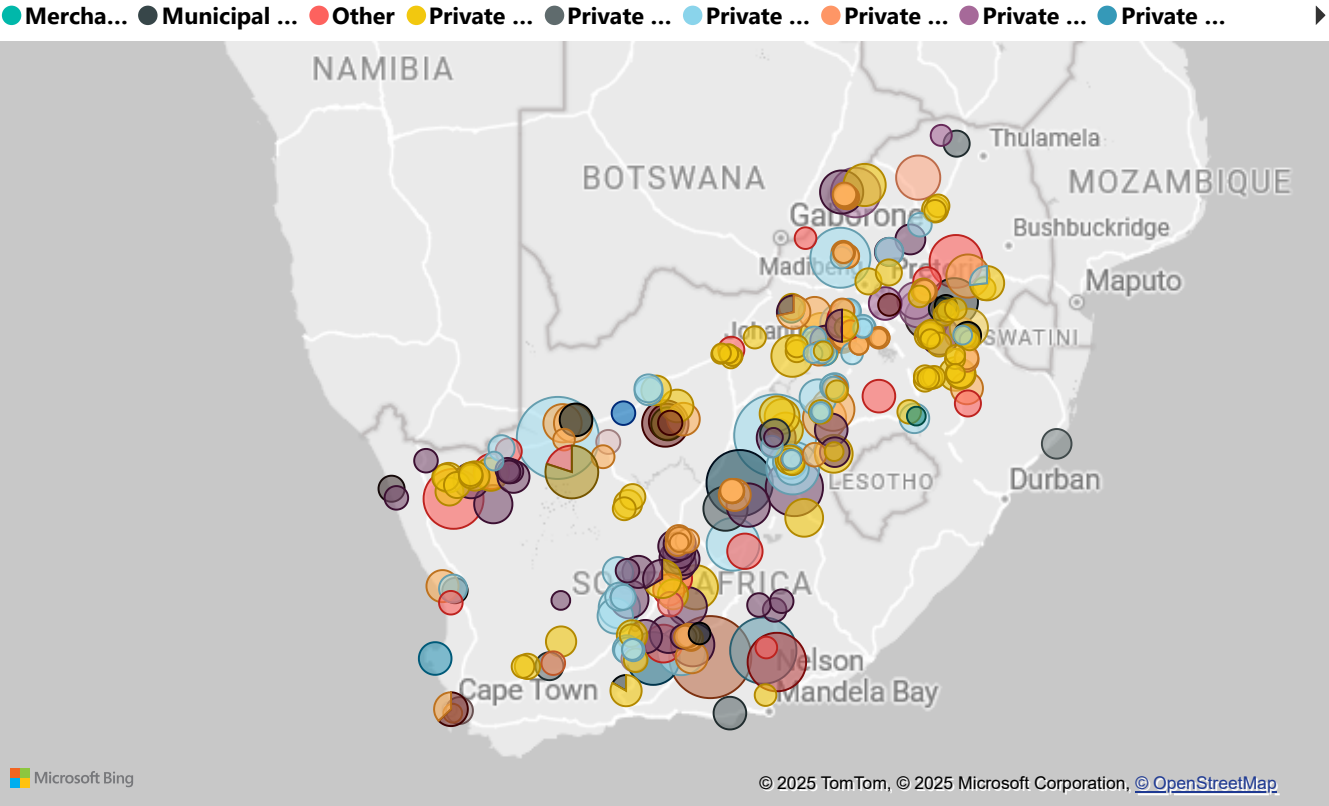
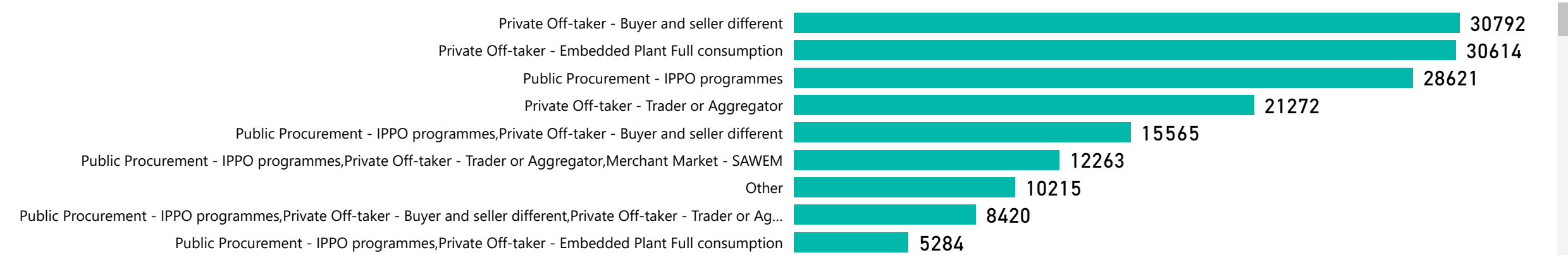


Project Type / Status

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DMRE vs Private (MWac) 2025 (August) South African Renewable Energy Grid Survey



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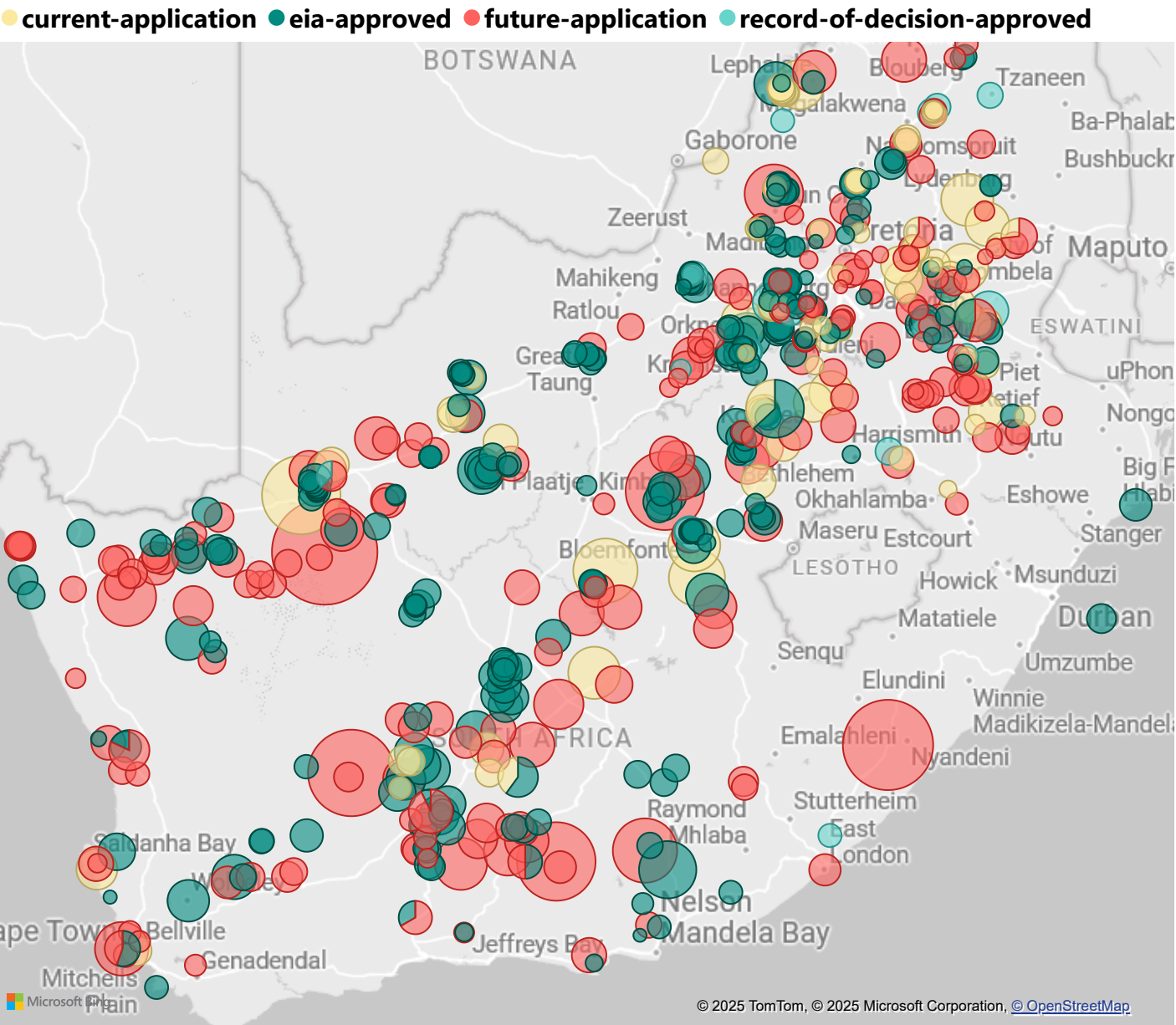
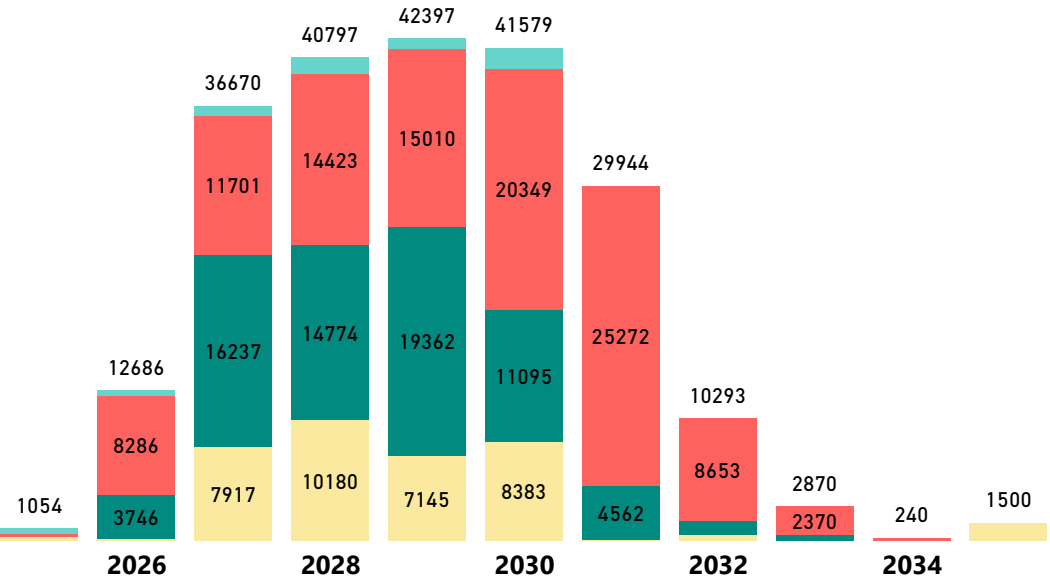
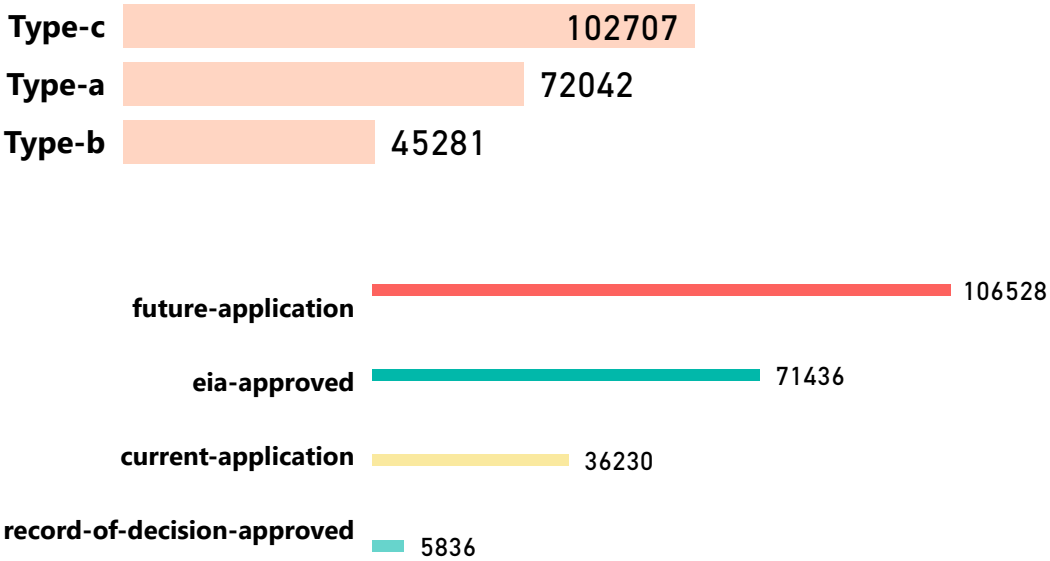
- ☐ Type-a
- ☐ Type-b
- ☐ Type-c

Province	Male	Female	Total
Eastern Cape	14298	3759	21612
Free State	7345	9796	26861
Gauteng	7814	0	7814
Hydra Central	5615	4510	31119
KwaZulu Natal	3925	0	3925
Limpopo	7801	7668	18269
Mpumalanga	4295	5047	21967
North West	10237	3356	18795
Northern Cape	14380	3951	48813
Western Cape	2950	2827	20855

A stacked bar chart titled "Number of people who did not vote by province in the 2009 SA general election". The y-axis represents the number of people, ranging from 0 to 150 in increments of 50. The x-axis lists ten South African provinces. Each bar is composed of six segments representing different age groups: 18-24 (teal), 25-34 (yellow), 35-44 (red), 45-54 (grey), 55-64 (green), and 65+ (light blue). The total number of non-voters for each province is displayed above its respective bar.

Province	Total Non-Voters	18-24	25-34	35-44	45-54	55-64	65+
Eastern Cape	30	5	5	5	5	5	5
Free State	67	20	27	10	5	5	5
Gauteng	53	10	27	10	5	5	5
Hydra Central	66	22	22	10	10	10	10
KwaZulu Natal	19	2	2	2	2	2	2
Limpopo	71	10	38	20	5	5	5
Mpumalanga	83	24	21	21	10	10	10
North West	93	15	51	15	5	5	5
Northern Cape	136	5	63	29	10	10	10
Western Cape	55	10	10	10	10	10	10

EIA Ready (MWac) 2025 (August) South African Renewable Energy Grid Survey



Technology (MWac) 2025 (August) South African Renewable Energy Grid Survey

● bess ● gas ● hydro ● pv ● pv,bess ● pv,wind ● pv,wind,bess ● wind ● wind,bess

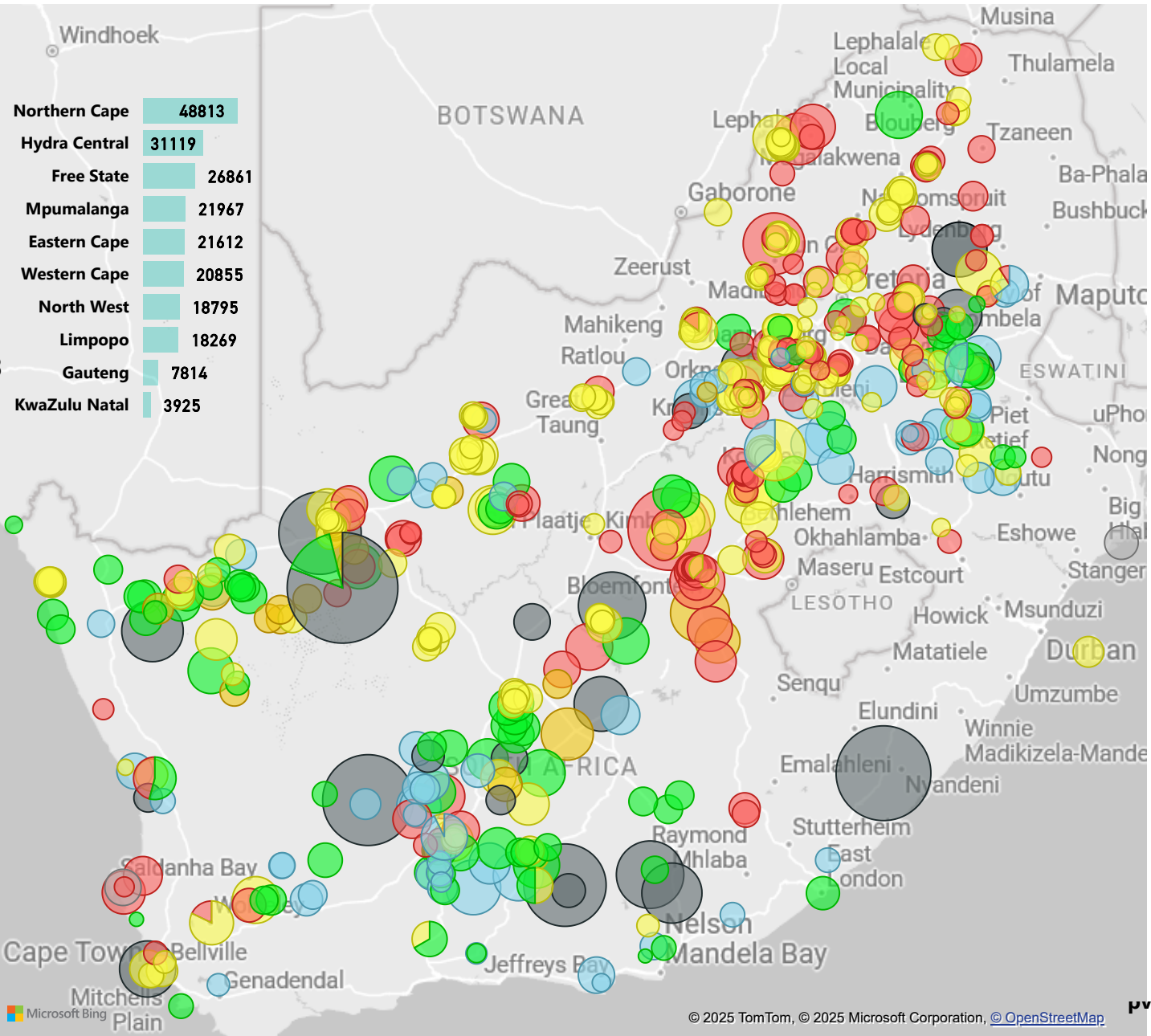
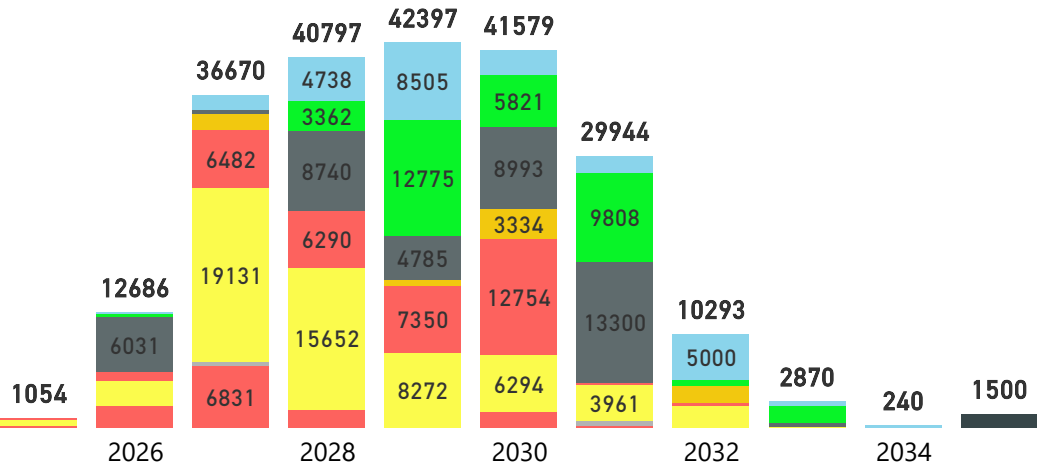
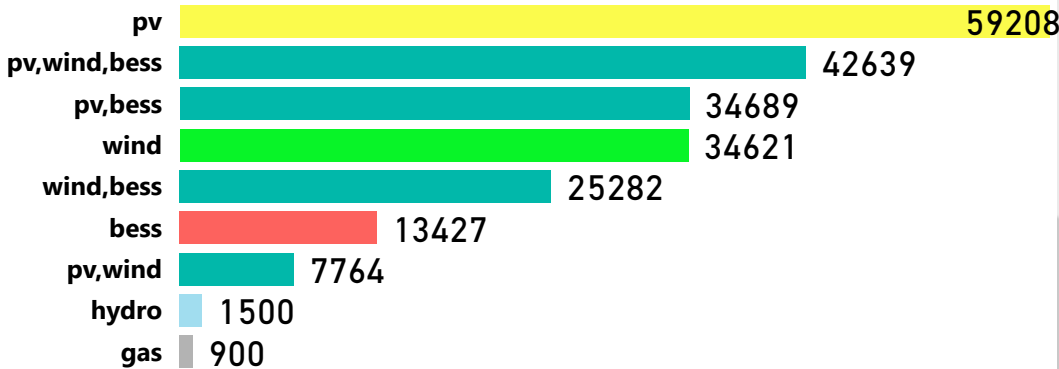


Contracted Capacity (MWac)

Contracted - grid capacity

220030

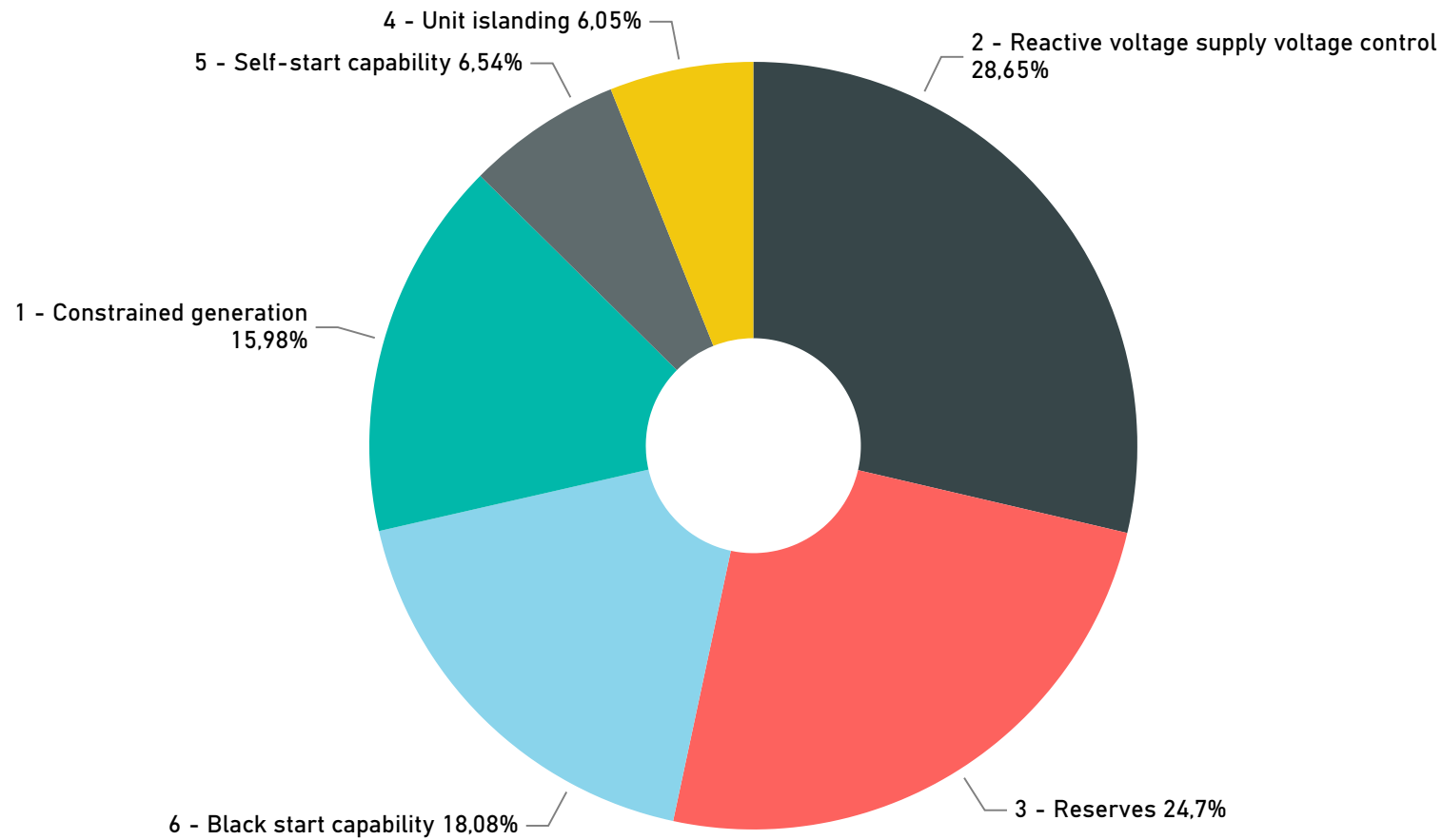
- Type-a
- Type-b
- Type-c



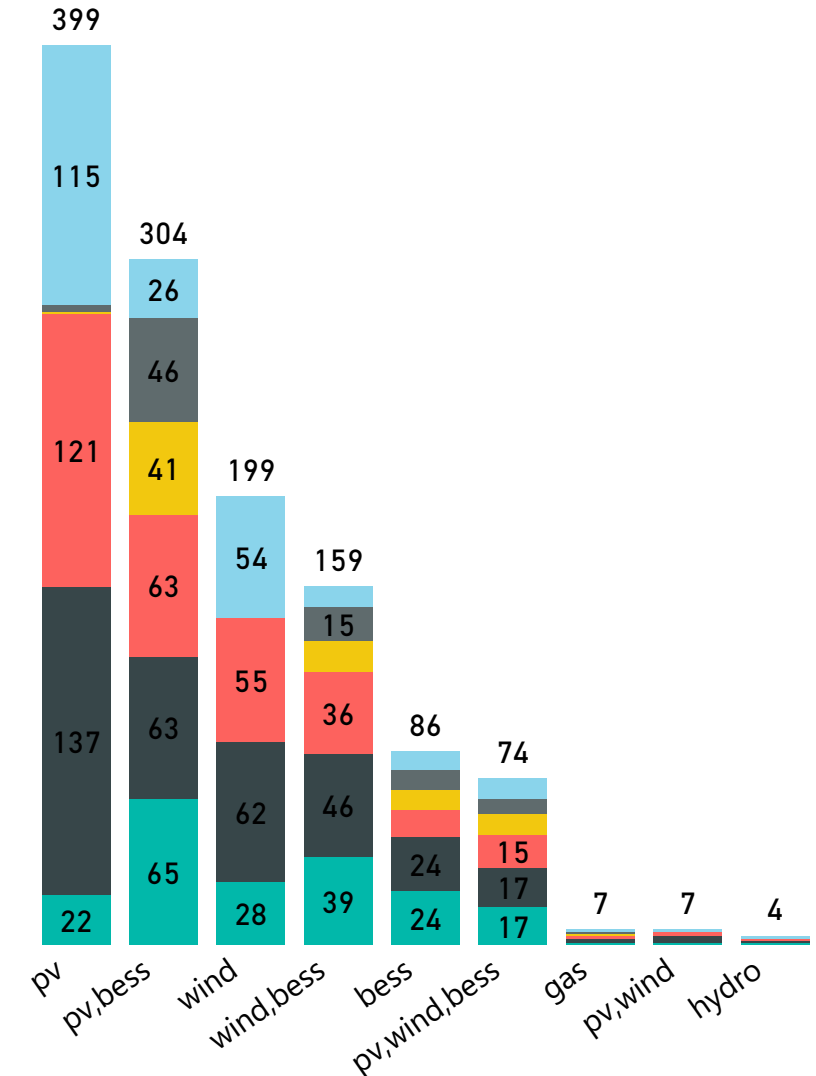
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Ancillary Services Category

Attribute ● 2 - Reactive voltage supply voltage control ● 3 - Reserves ● 6 - Black start capability ● 1 - Constrained generation ● 5 - Self-start capability ● 4 - Unit islanding

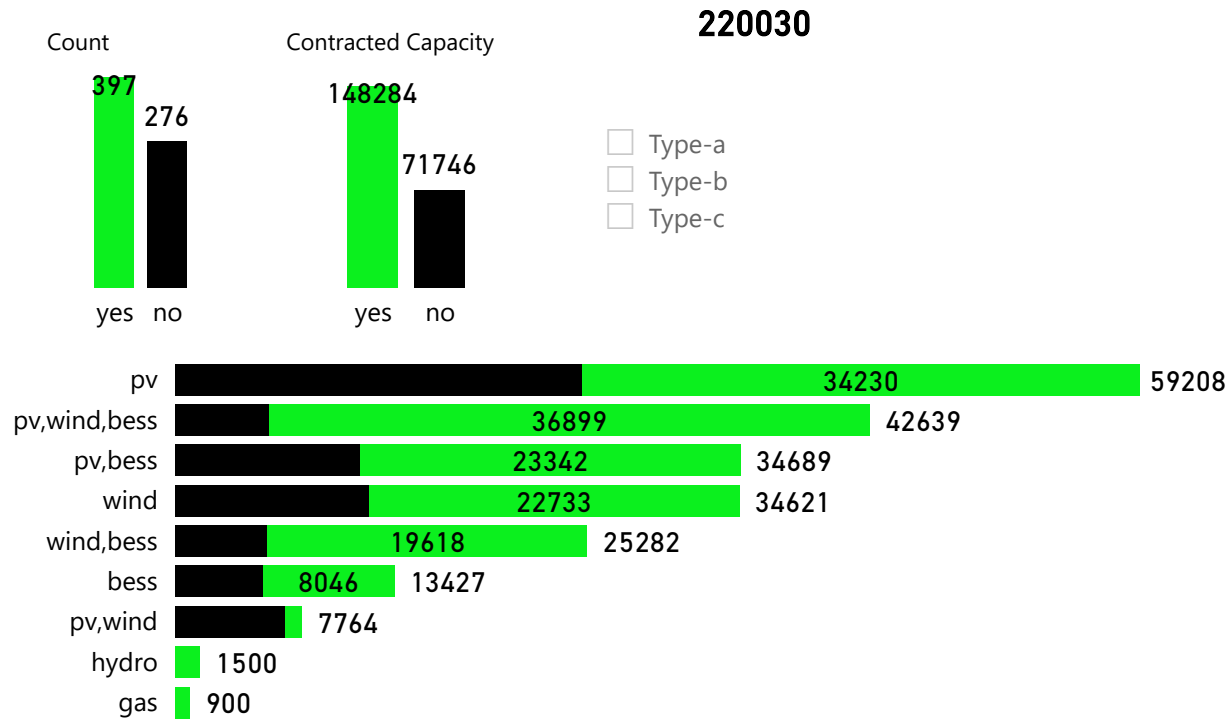


Generation Technology

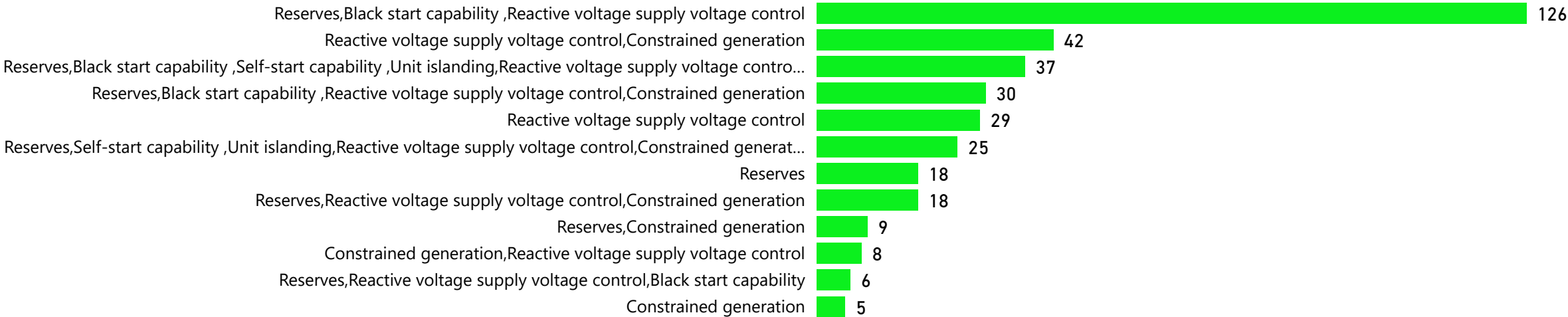
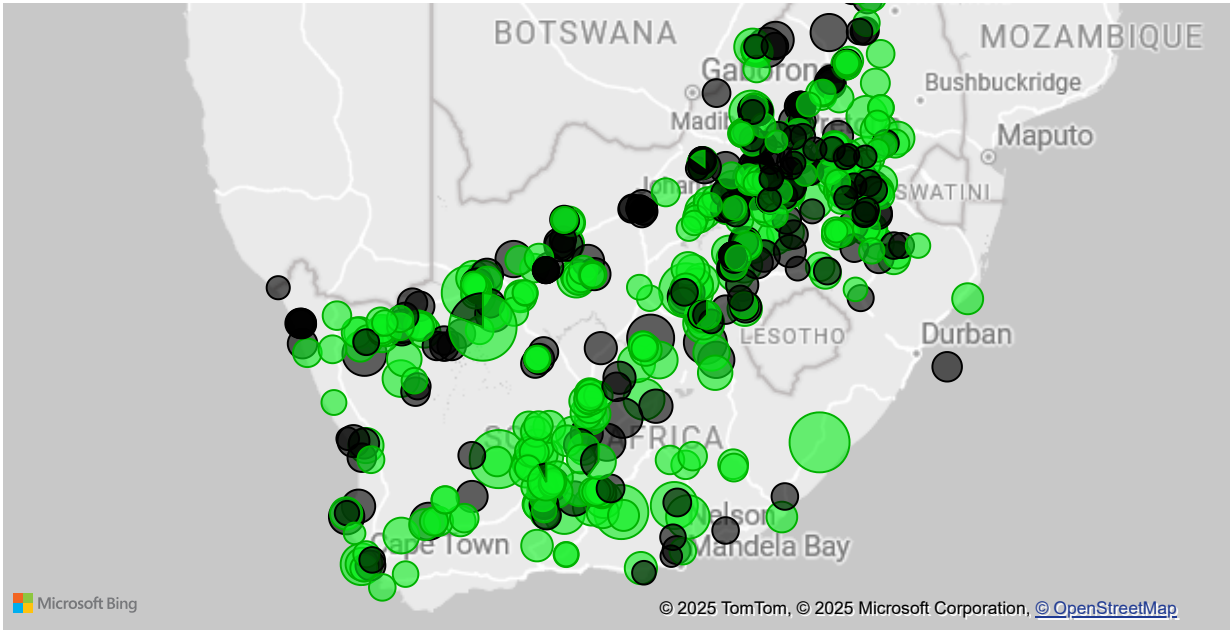


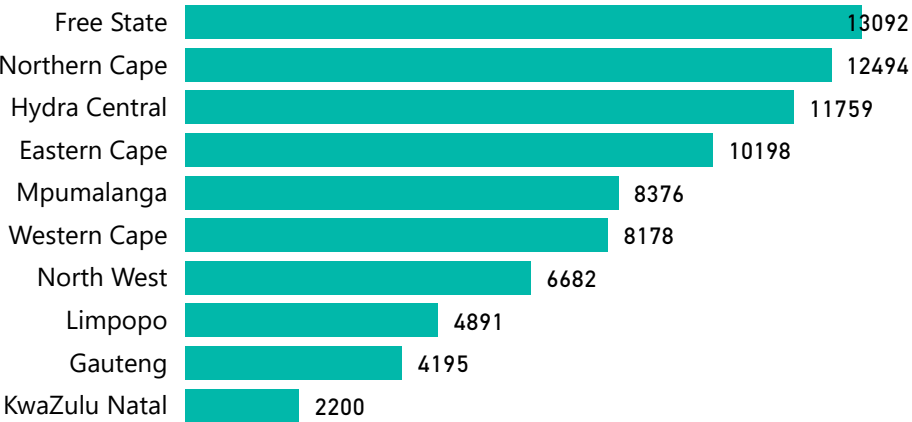
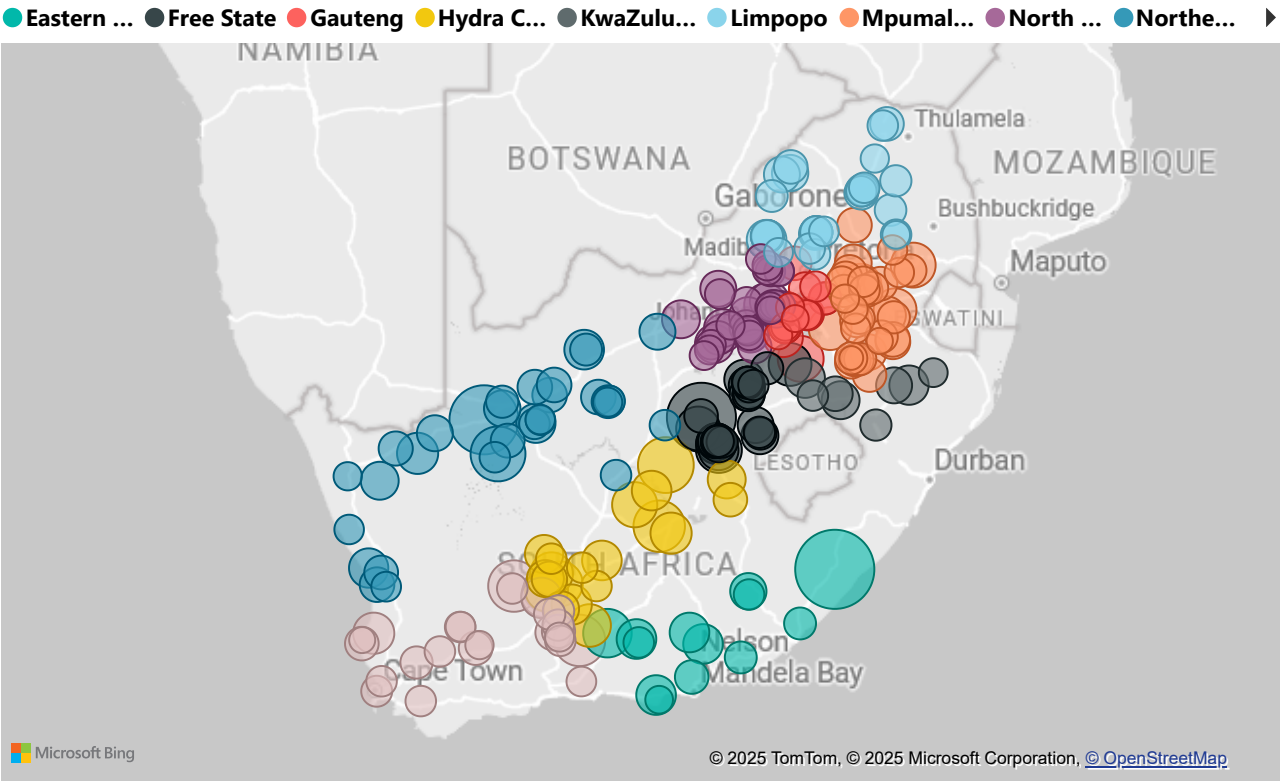
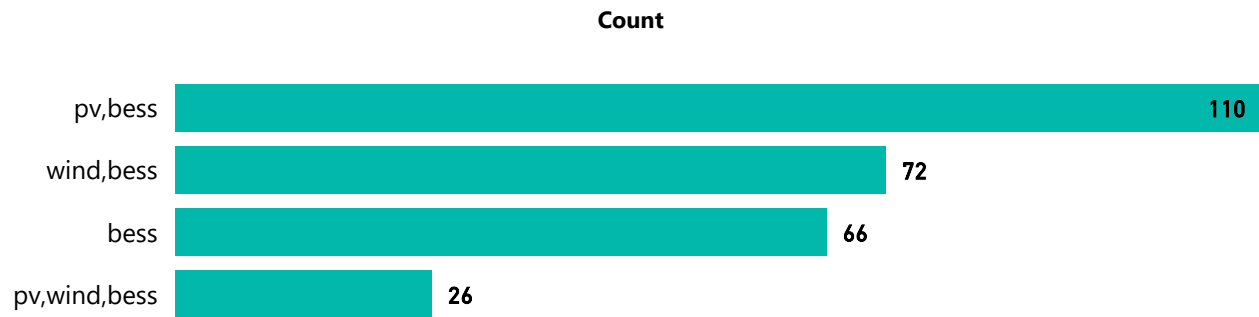
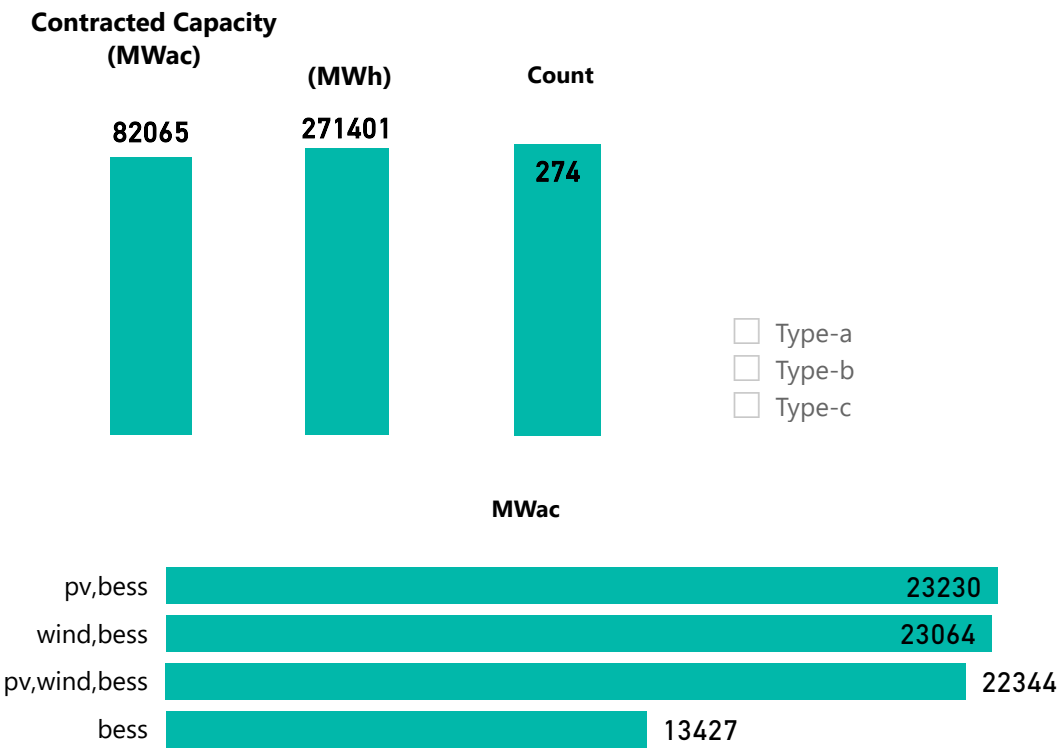
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Ancillary Services (Yes /No) MWac



7. Are you willing to incorporate ... ● no ● yes



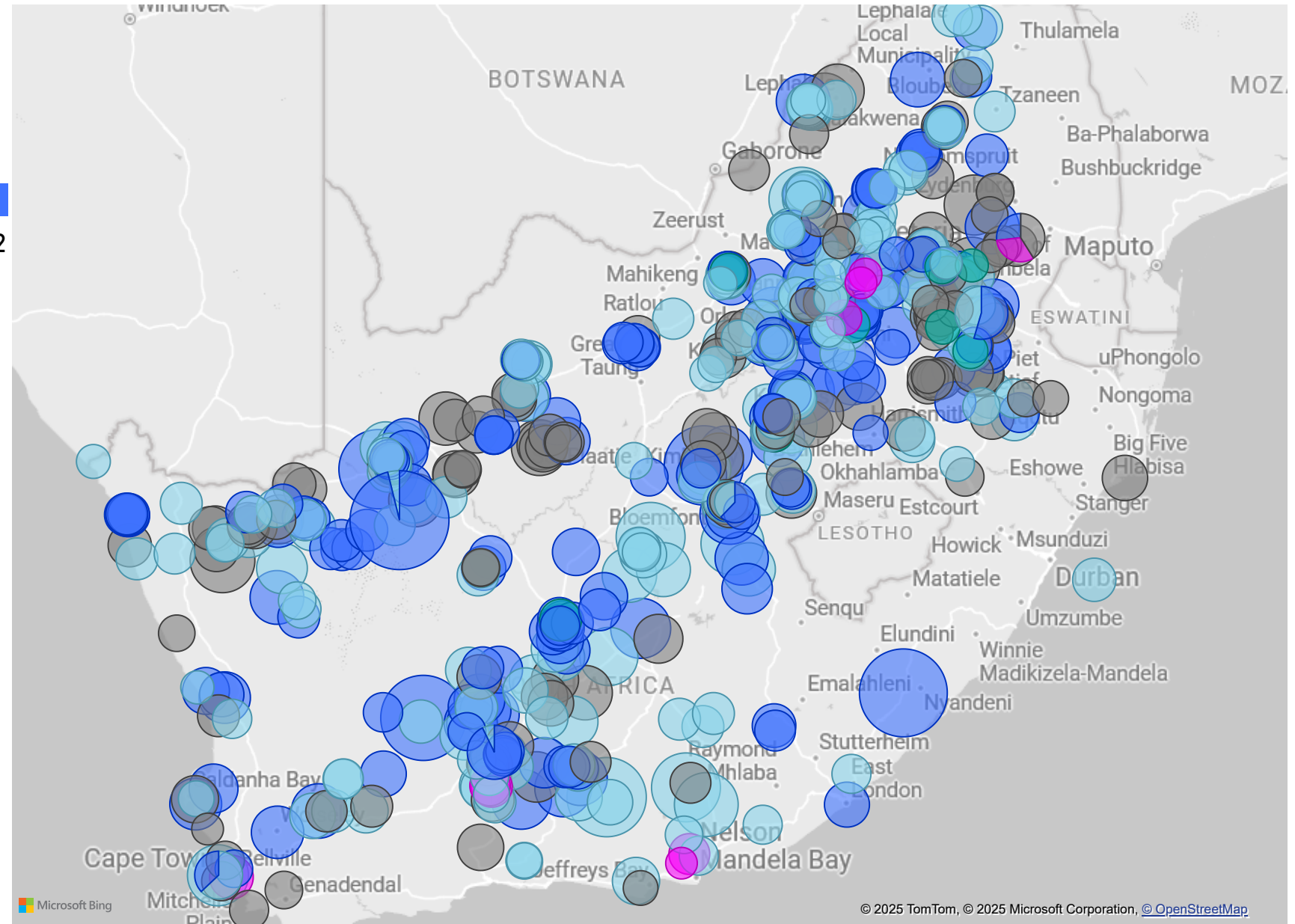
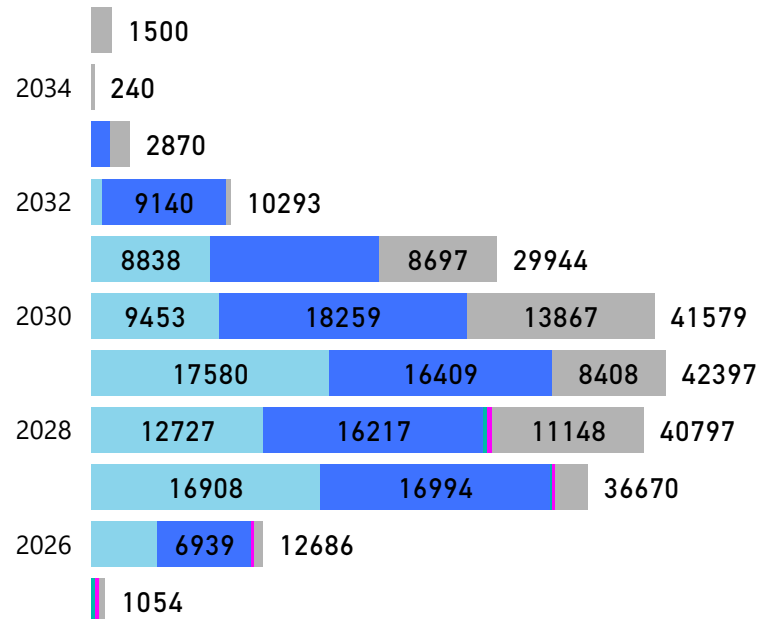
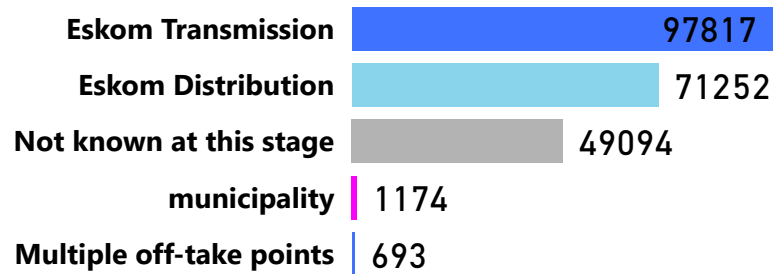


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Access Tx,Dx, Own use & Munic

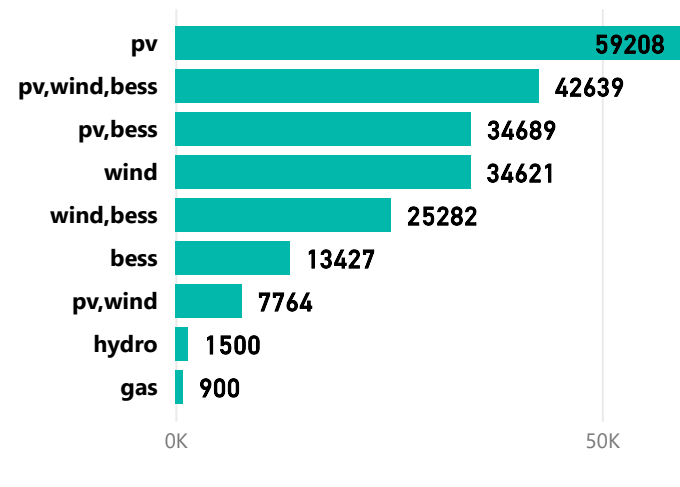
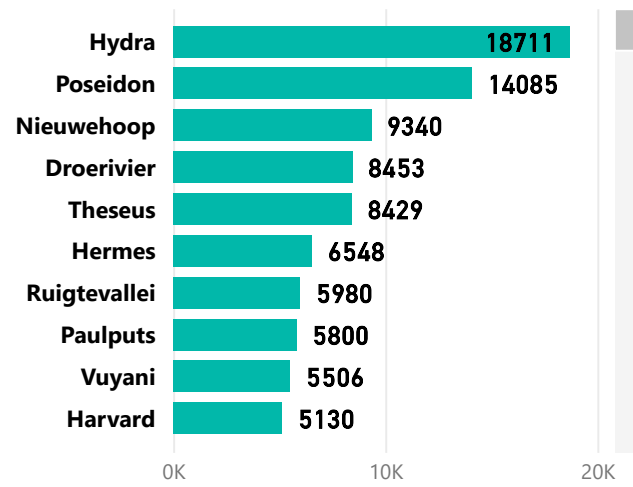
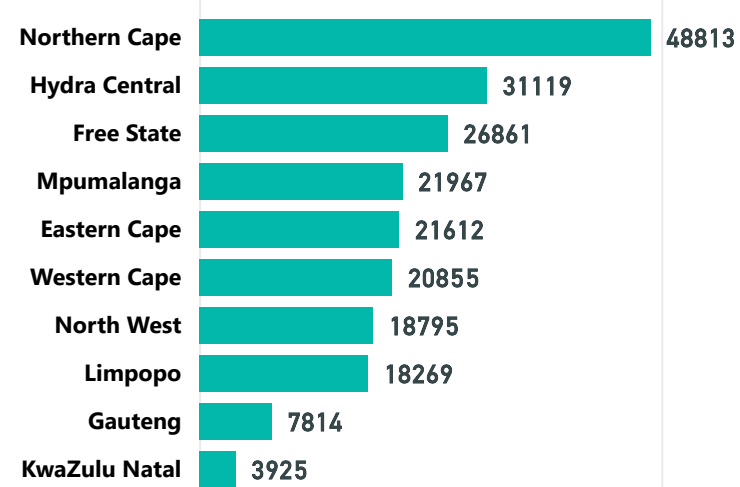
● Eskom Distribution ● Eskom Transmission ● Multiple off-take points ● municipality ● Not known at this stage

- Type-a
- Type-b
- Type-c

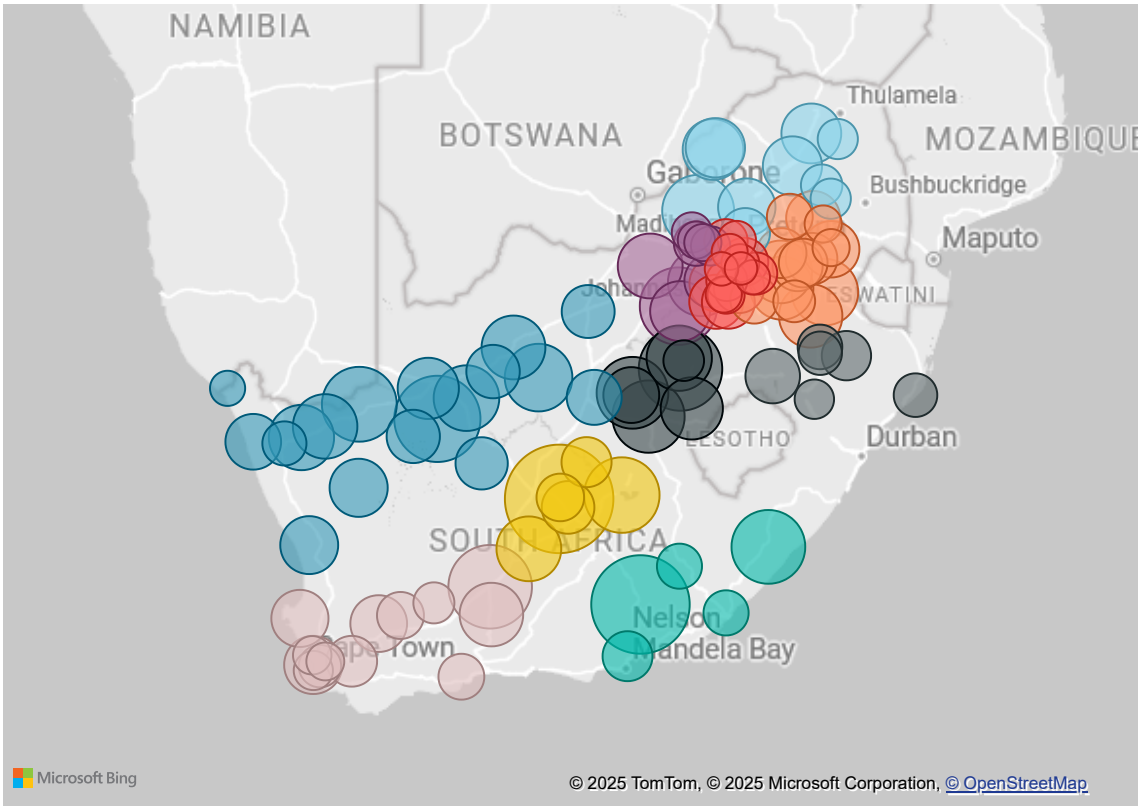


Grid Interest

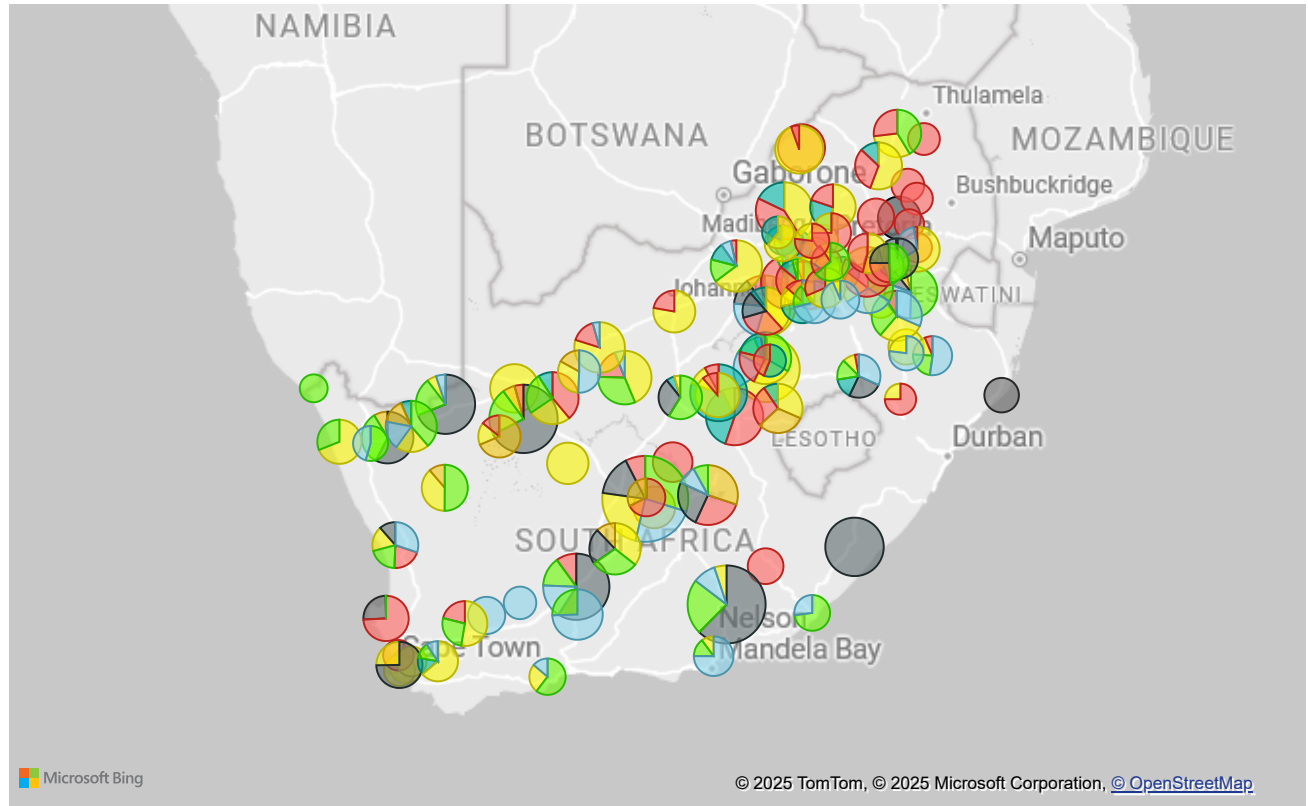
- Type-a
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- Type-c



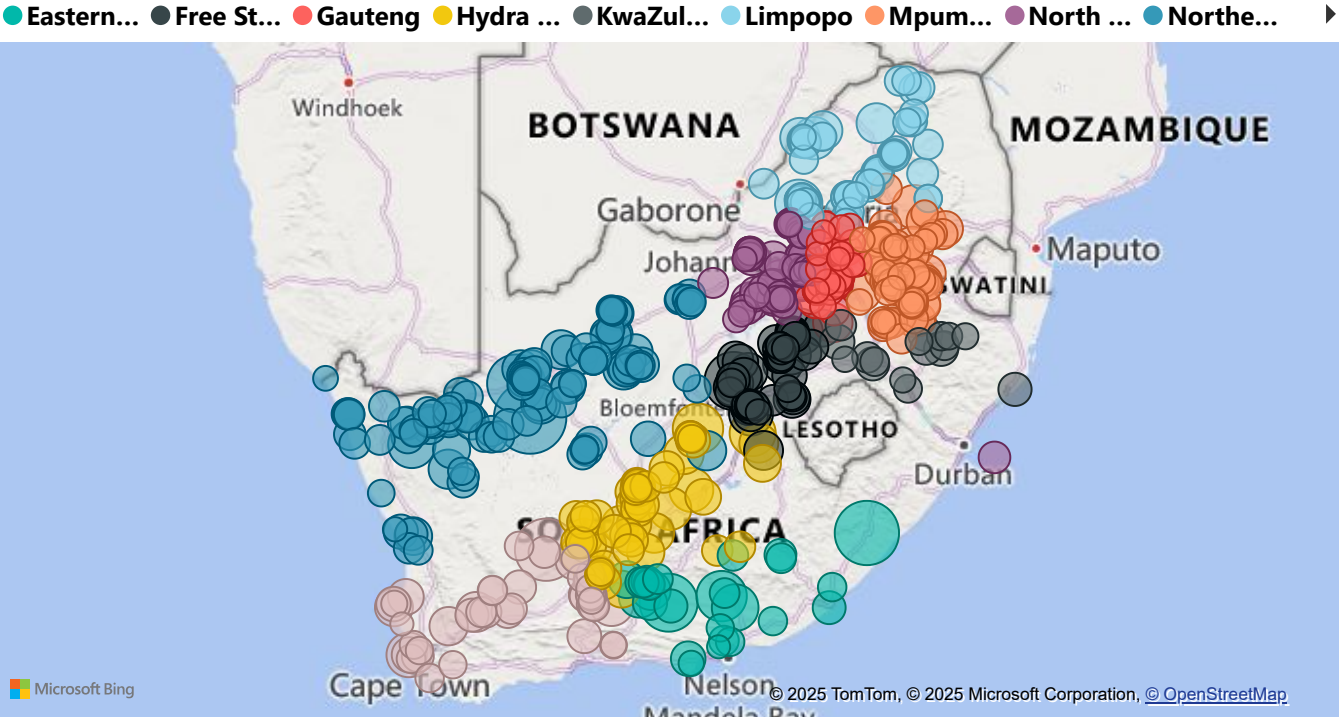
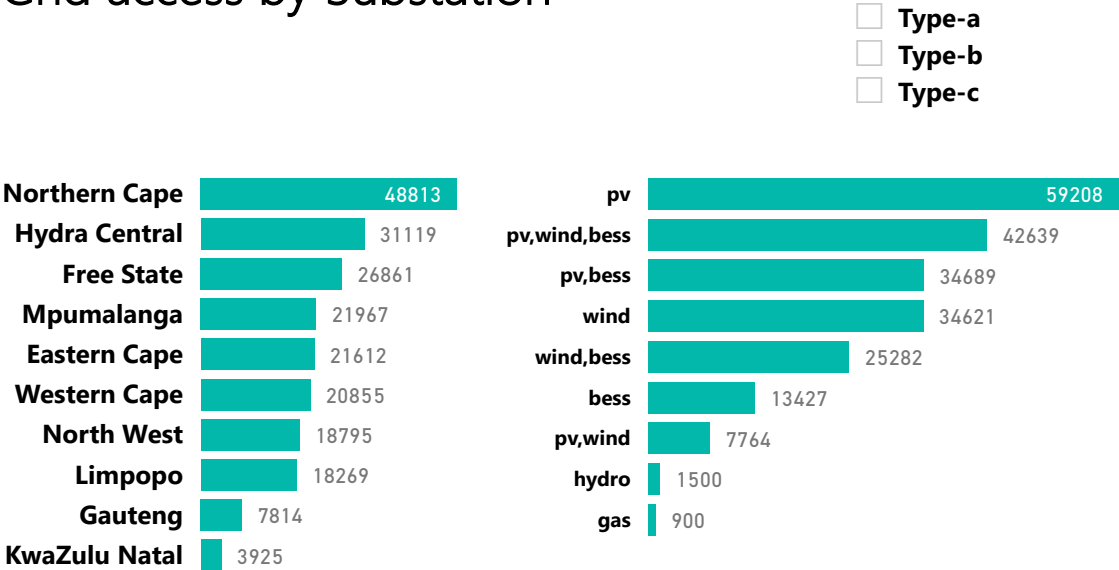
● Eastern ... ● Free State ● Gauteng ● Hydra C... ● KwaZulu ... ● Limpopo ● Mpumal...



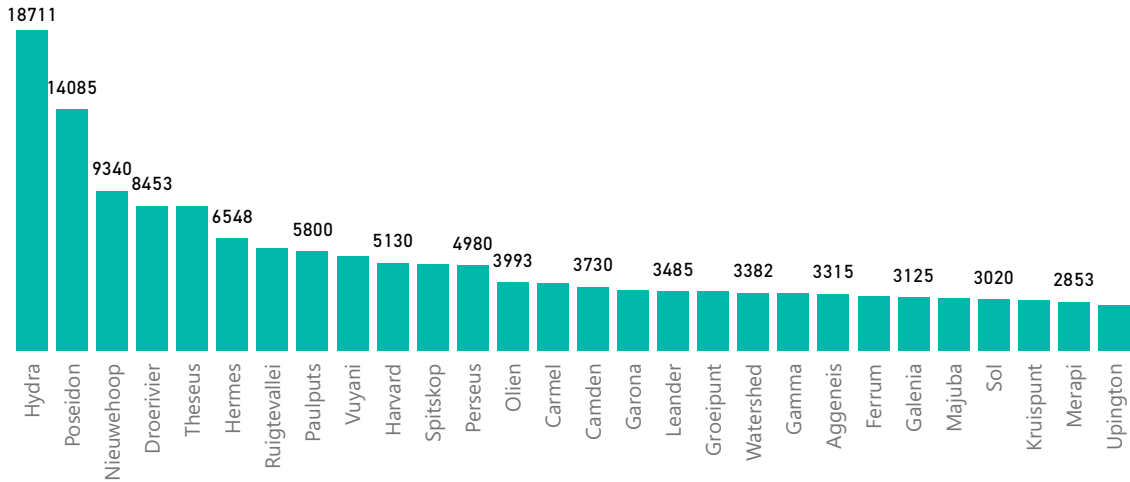
● bess ● gas ● hydro ● pv ● pv,bess ● pv,wind ● pv,wind,bess ● wind ● wind,bess



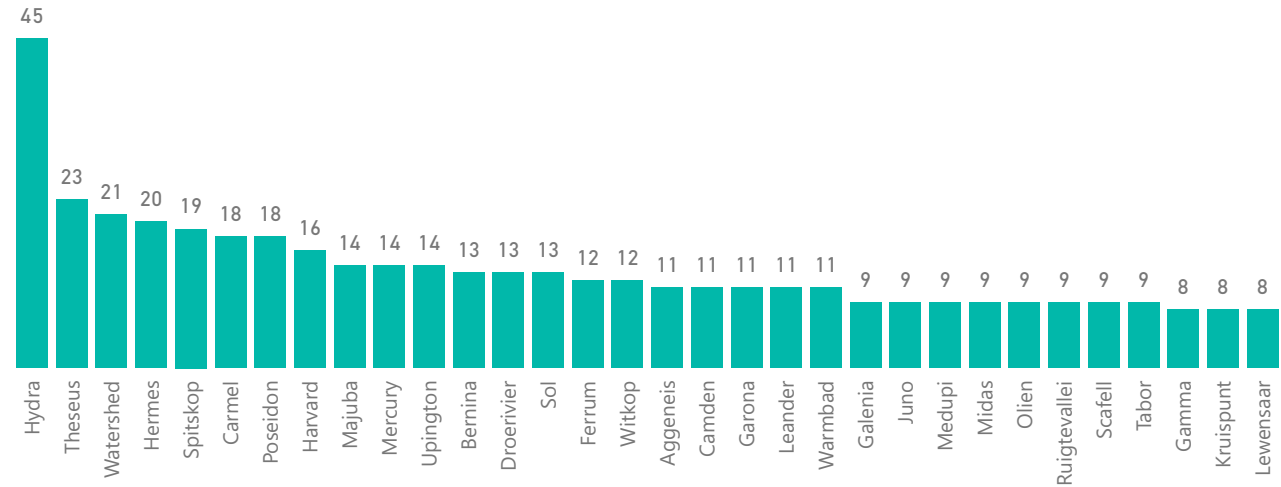
Grid access by Substation



Contracted Capacity (MWac) by Substation



Count



Thank you
to all the survey contributors for
their time and valuable insights.

The End