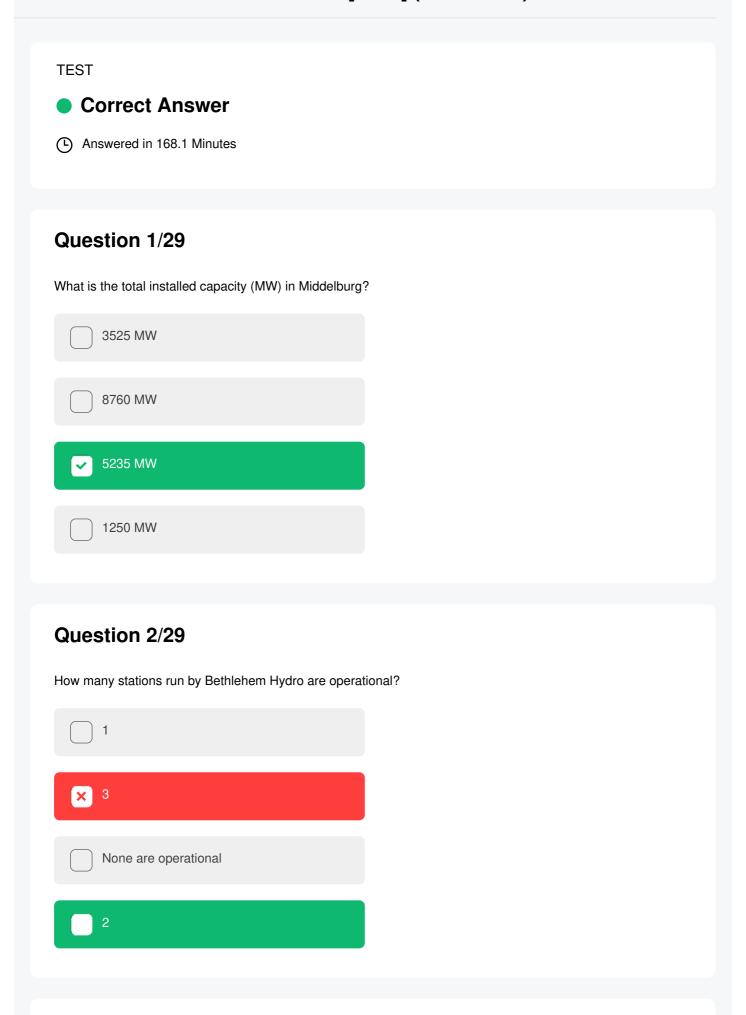
Visualisation - Predict Questions [MCQ] (Version : 0)



What is the total capacity available for distribution by Eskom-run power stations? HINT: Only consider the nominal capacity for Eskom operational stations. 49557 MW 49035 MW 48765 MW

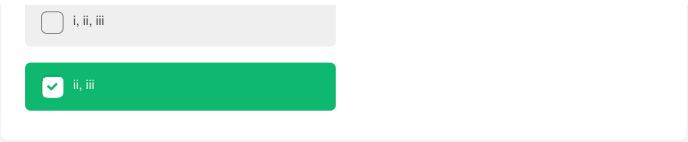
Question 4/29 Which of the following fully operational stations has the largest difference between the total installed capacity and the total nominal capacity? Medupi Kusile Klipheuwel Duvha

Question 5/29

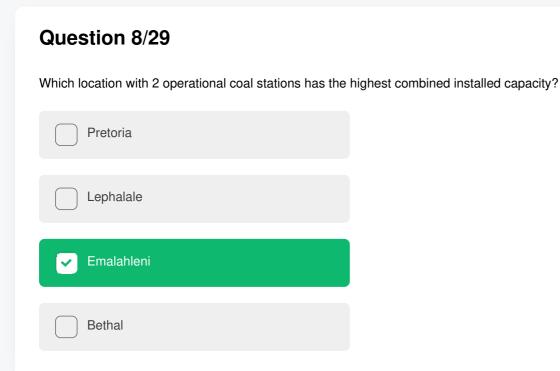
Complete the following the steps in PowerBI to answer the next question:

- a. Under the chart selection, select and plot a line chart.
- b. Under "Axis" for the line chart, input the option with your "date" variable from the "national_electricity_generated_monthly" table.
- c. Under "Values" for the line chart, input the option with your "electricity_generated_MW" variable from the "national_electricity_generated_monthly" table.

During the month of June, which year had the lowest generation?
2018
2019
2017
× 2016
Explanation:
This Question has been discounted due to an error in the Question or Answer Text.
Question 6/29
Complete the following steps in PowerBI to answer the next question:
a. Under the chart selection, select and plot a clustered column chart.
b. Under "Axis" for the clustered column chart, input the option with your "station_name" variable from the "stations" table.
c. Under "Values" for the clustered column chart, input the option with your "nominal_capacity_MW" variable from the "stations_dynamics" table.
d. Under "Values" for the clustered column chart, input a section option with your "installed_capacity" variable from the "stations_meta_info" table.
Which of the following statements are correct?
 i) The Medupi power station has the largest installed capacity out of all the fully operational stations ii) Lethabo station has the fourth-highest capacity installed out of all the fully operational stations iii) Komati and Avon Stations have nominal capacities of 1630 iv) The Duvha power station has a better nominal capacity than the Matla power station
ii, iv
ii only

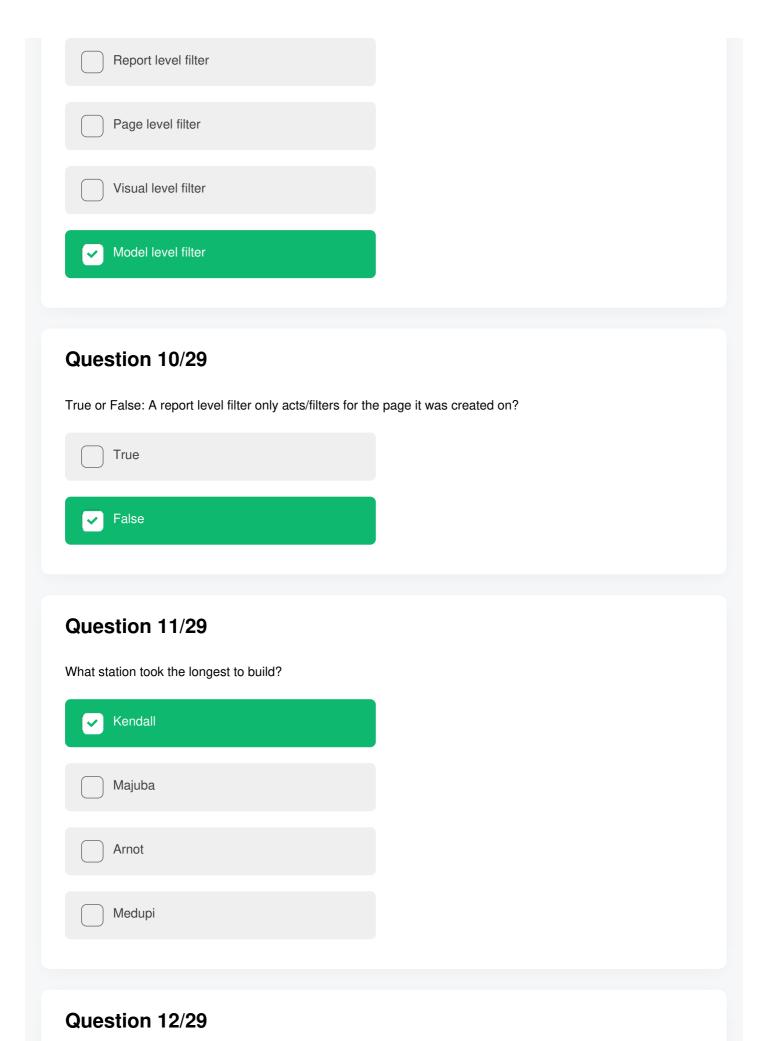


Question 7/29 What is the total installed capacity (MW) for coastal Gas/ liquid fuel turbine stations? 2761 MW 2943 MW 2779 MW 3449 MW

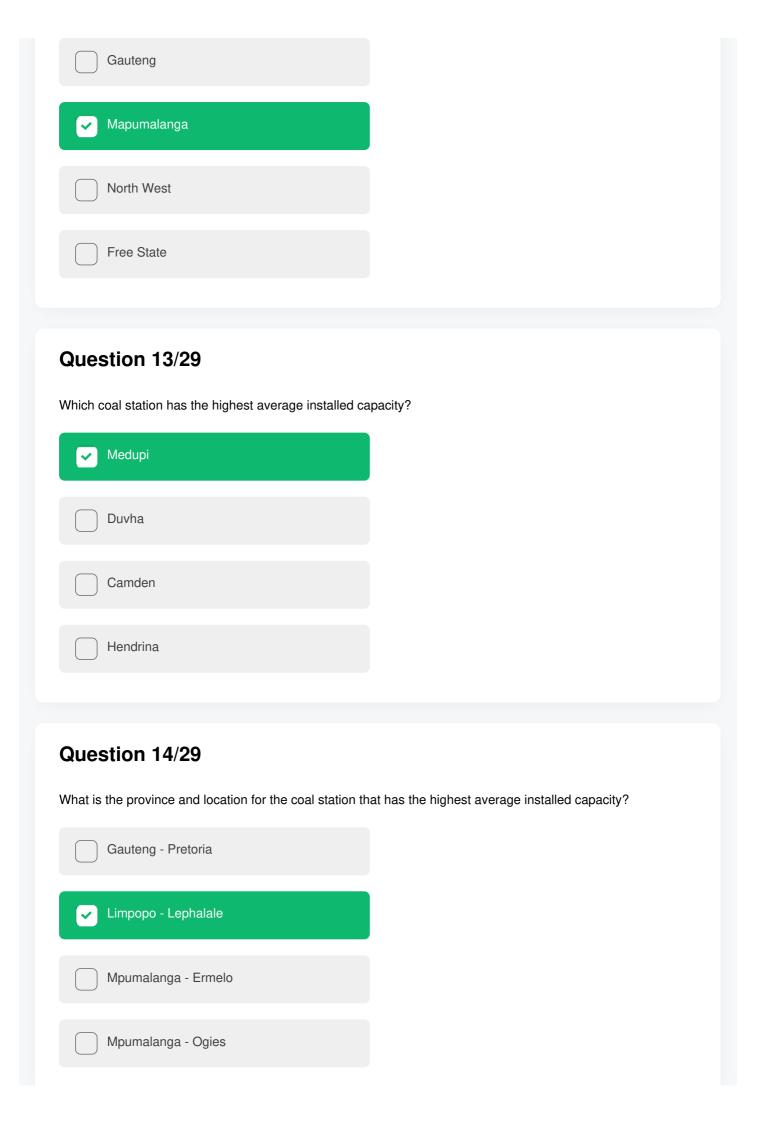


Question 9/29

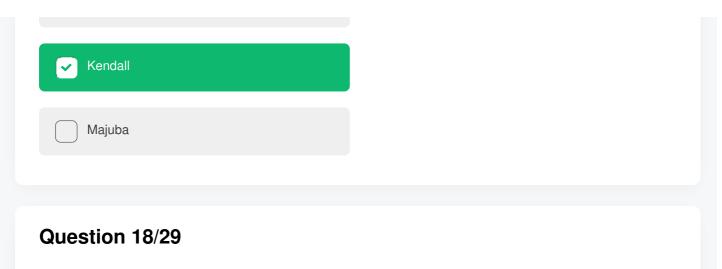
Which of the following are not a type of filter available in Power BI Reports?



In which province is the hydroelectric station that is on hold situated?



Question 15/29 What is the difference between the installed and nominal capacity for Gauteng coal stations (operational and decommissioned stations)? 928 MW 955 MW 943 MW 950 MW Question 16/29 In Mpumalanga, which coal station took the longest to build? Arnot Medupi Kendall Majuba Question 17/29 What is the oldest operational plant in South Africa? Medupi Arnot

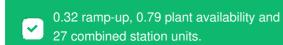


For Coal stations with between 7 and 10 units, what is the average ramp up rate, average plant availability, and total number of combined station units?

0.31 ramp-up, 0.55 plant availability and
27 combined station units.



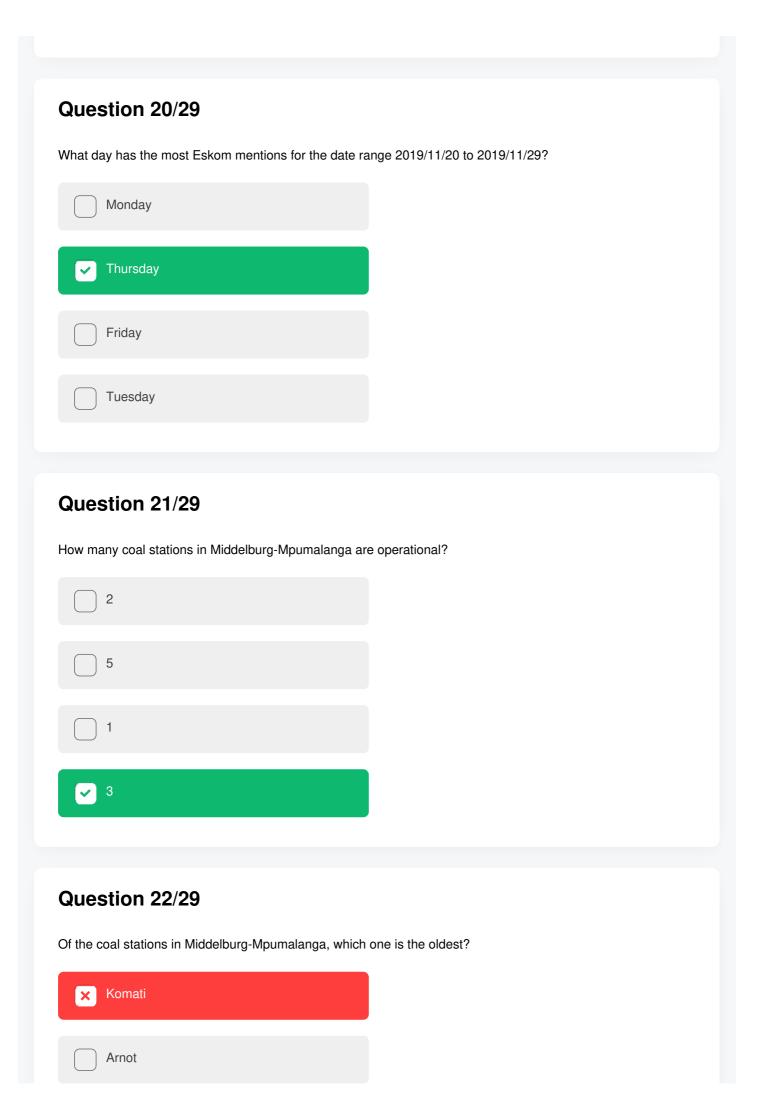


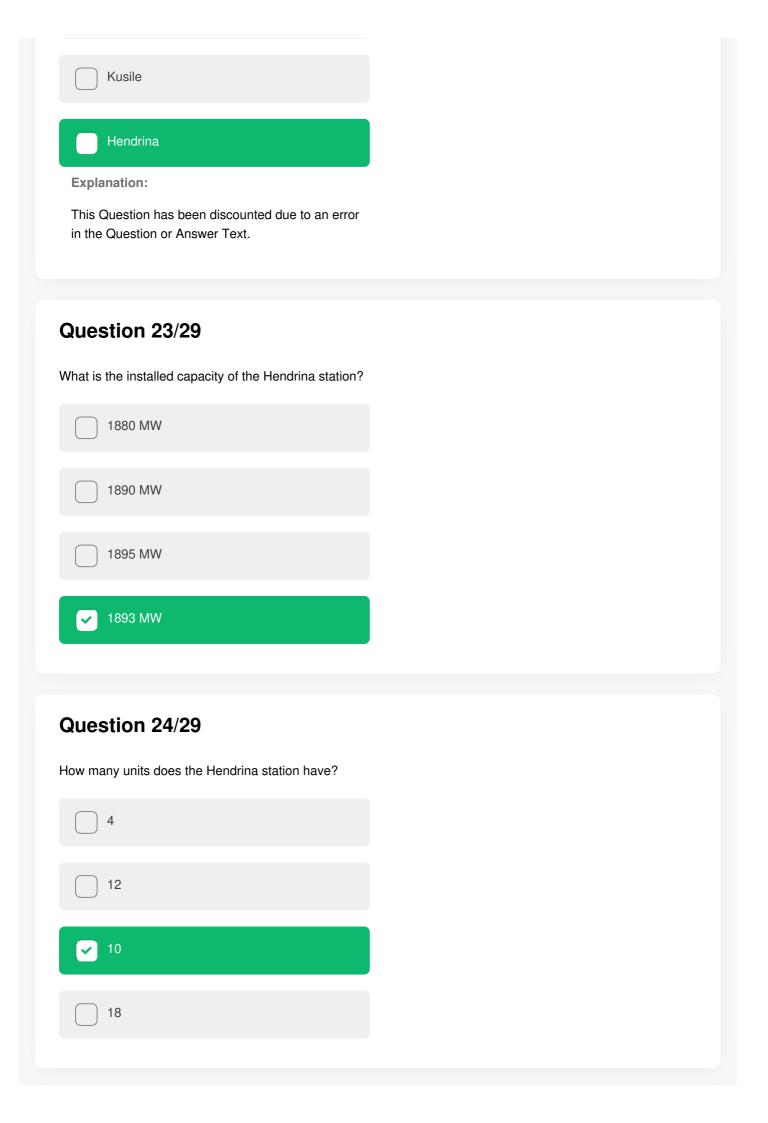


Question 19/29

For Coal stations with between 7 and 10 units, which unit has the highest heat rate to max nominal capacity (MW) ratio?

(MW) ratio?		
	Medupi	
✓	Komati	
	Camden	
	Arnot	





Question 25/29 What is the average ramp up rate for Gas/Diesel plants in the Western Cape if we only consider stations with between 1 and 7 units? 0.32 0.30 0.33 0.31 Question 26/29 What is the ratio of total fixed operating cost to average variable O&M cost for all mini-Hydro stations? 17.5 16.7 15.8 12.3 Question 27/29 How much peak electricity was generated in the second quarter of 2015? 49K MW 58K MW

