

Story 1

Welcome	1. Global trend of 23 countries from 1997 t..	1.1 Write any three countries where elect..	Heatmaps of countries with access to electri..	Selection of a single country	Breadth 2	Access to electricity w..
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Project Primer

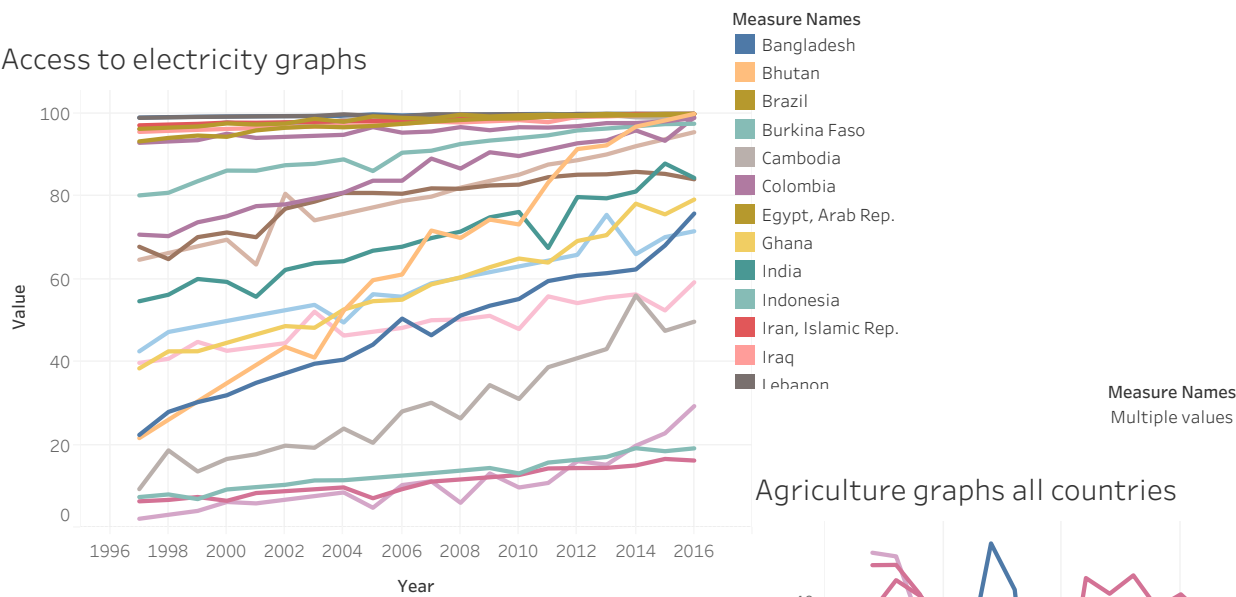
Create a visual representation depicting the development indices of a country, including electricity access, GDP, national income, and employment, from the year 1998 to 2020.

~ Shaik Hyder Basha

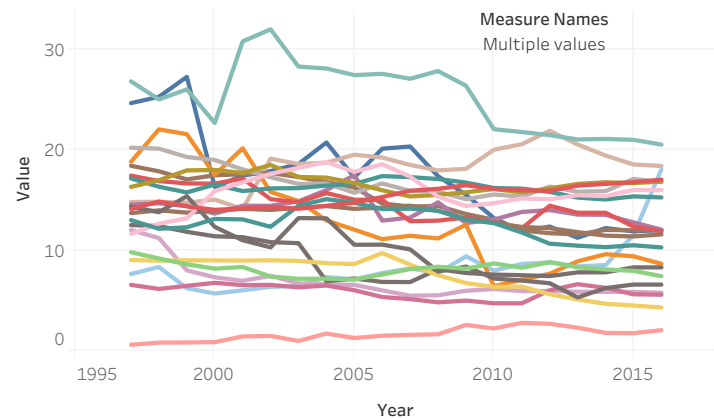
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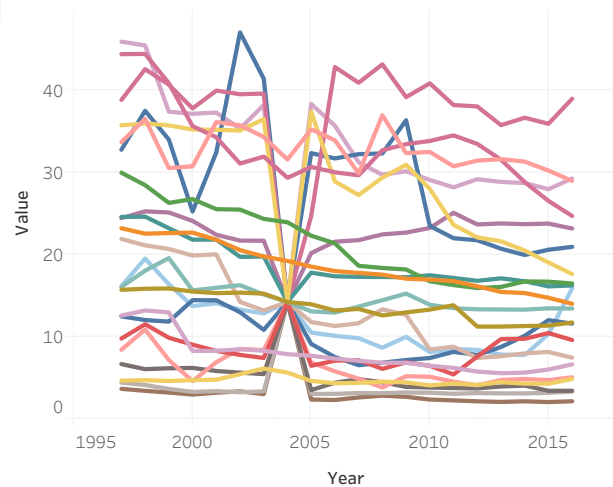
Access to electricity graphs



Manufacture graphs all countries



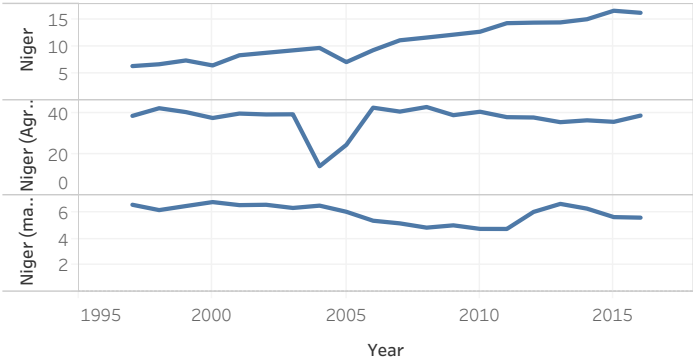
Agriculture graphs all countries



Story 1

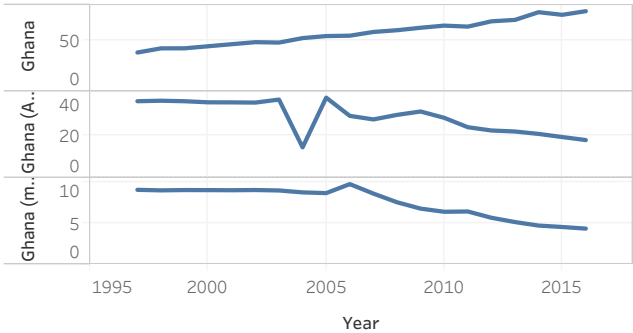
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Niger comparison

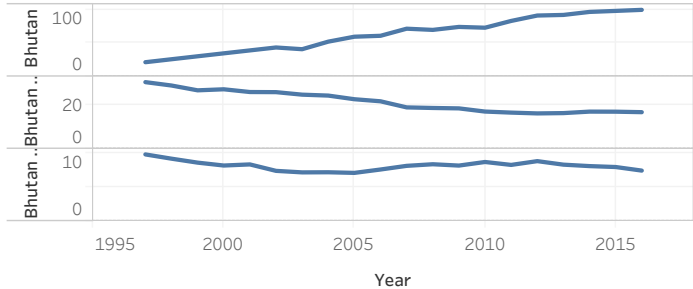


1) Niger experienced a rise in electricity from 6.36 to 16.22, while other factors like agricultural value and manufacturing showed no variation and remained constant.
2) Bhutan witnessed a transition in electricity access, increasing from 21% to 100%, while other indicators experienced a decline.
3) Ghana's electricity access figure remained constant at 39, while other values witnessed a decline.

Ghana comparison



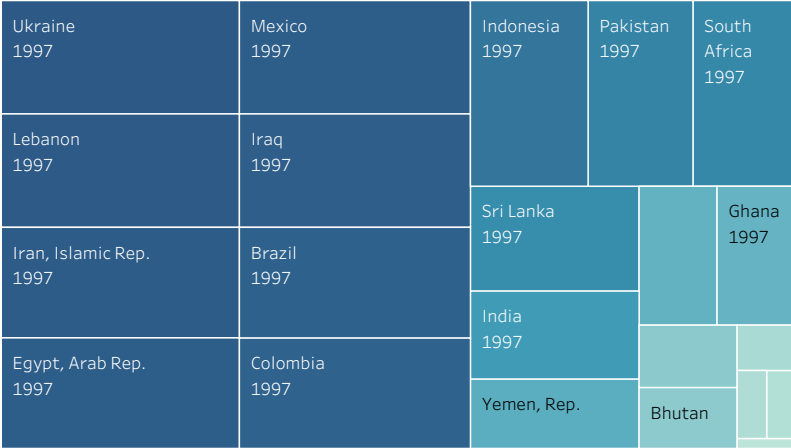
Bhutan comparison



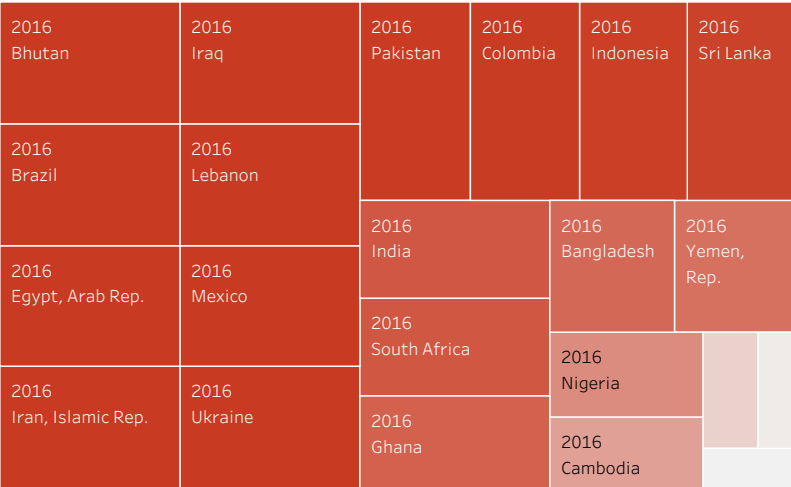
Story 1

Welcome	1. Global trend of 23 countries from 1997 t..	1.1 Write any three countries where elect..	Heatmaps of countries with access to electri..	Selection of a single country	Breadth 2	Access to electricity with respect to em..
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heatmap of electricity 1997



heatmap of electricity 2016



Story 1

1. Global trend of 23 countries fro..	1.1 Write any three countries where elect..	Heatmaps of countries with access to electri..	Selection of a single country	Breadth 2	Access to electricity with respect to emplo..	Electricity with respect to land%
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I chose Bhutan as the focal country and utilized various factors such as GDP, employment, etc., to assess and compare the trends in electricity access. Bhutan was selected due to its notable upward trajectory, starting at 21% and reaching 100%.

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1.1 Write any three countries ..	Heatmaps of countries with access to electri..	Selection of a single country	Breadth 2	Access to electricity with respect to emplo..	Electricity with respect to land%	Breadth 3
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2) Throughout the years, what has been the pattern of electricity access in Bhutan?

A) Starting with only 20% coverage in 1998, Bhutan successfully attained complete electrification, reaching 100% by the year 2020.

2.1) How does the electrification of a country impact the proportion of cultivated land?

A) The chart 'Electricity in relation to Land Percentage' indicates that there is no direct correlation between land percentage and electricity. This is because land cultivation has been a traditional practice in Bhutan, predating the introduction of electrification.

2.2) How does increased electricity accessibility affect employment conditions in the agricultural sector ?

A) It remains consistent, with a slight decline in agricultural employment evident in the "Agriculture Employment vs. Electricity" graph.

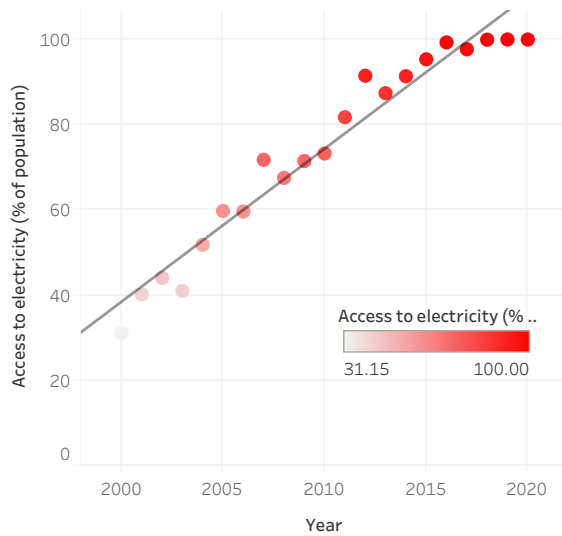
2.3) How has employment in various sectors evolved alongside the expansion of electricity access?

A) They are mutually exclusive; no correlation is evident. This is due to the rise in other private employment sectors and migration patterns.

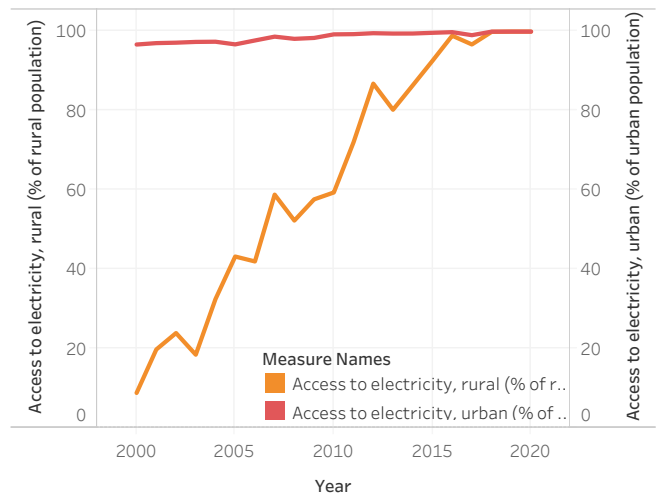
Story 1

Heatmaps of countries with a..	Selection of a single country	Breadth 2	Access to electricity with respect to emplo..	Electricity with respect to land%	Breadth 3	GDP with respect to electricity, nationa..
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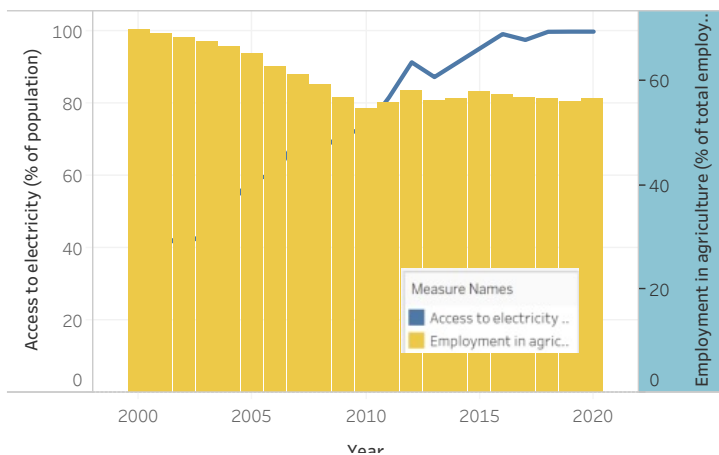
Bhutan Access to electricity



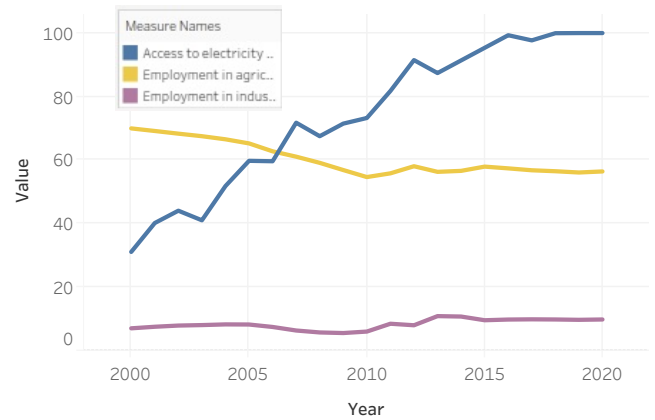
Electricity urban vs rural



Agriculture employment and electricity

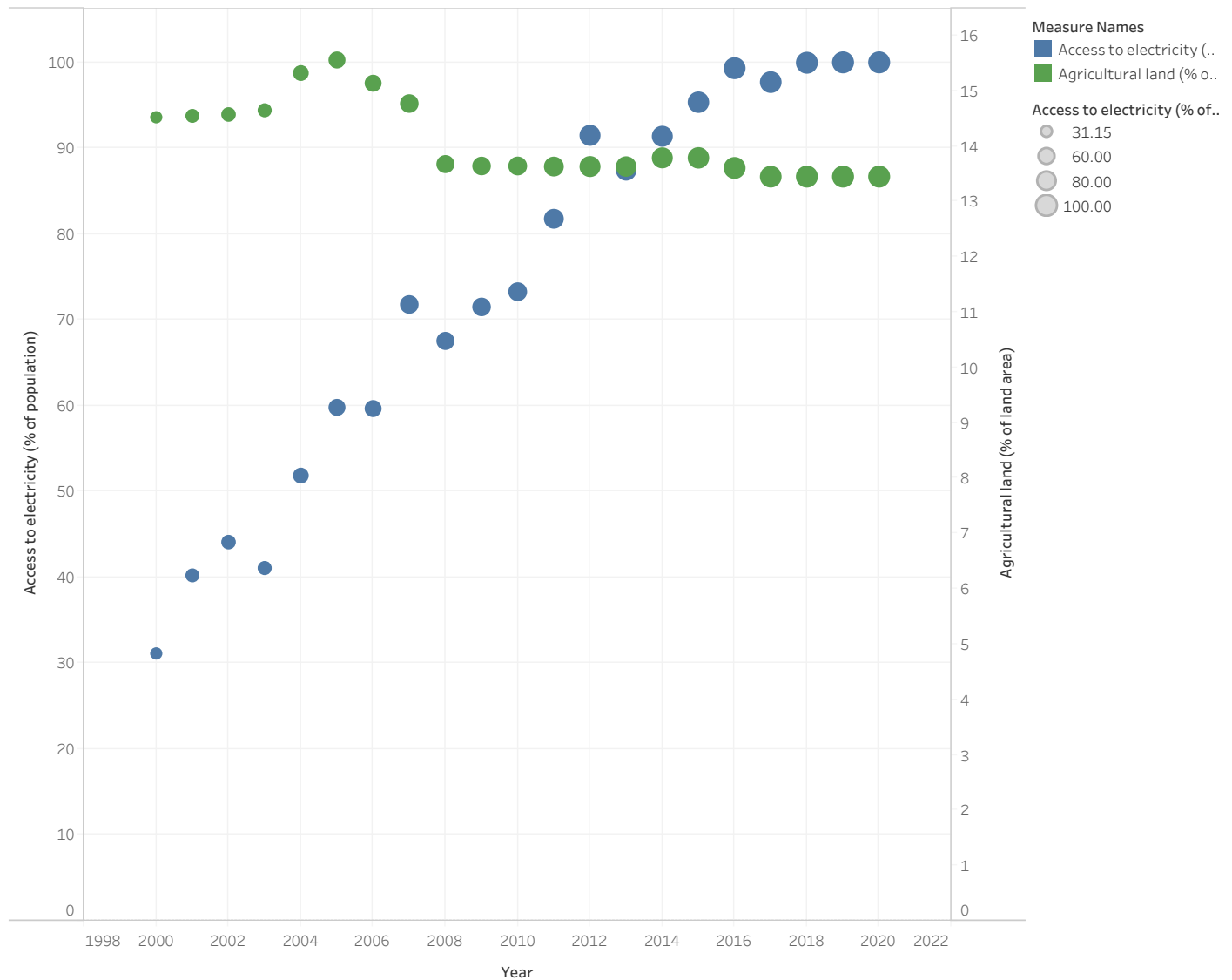


Shift in employment



Story 1

Selection of a single country	Breadth 2	Access to electricity with respect to emplo..	Electricity with respect to land%	Breadth 3	GDP with respect to electricity, national i..	Breadth 4
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Story 1

Breadth 2	Access to electricity with respect to emplo..	Electricity with respect to land%	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carb..
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3) Does a connection exist between GDP and the national income of the country in relation to electricity access?

A) Observing the GDP vs. electricity graph reveals a decline in GDP over time, indicating that it is not directly associated with the availability of electricity.

3.1) How does agricultural land contribute to the GDP of a country?

A) Examining the graph depicting agriculture land versus GDP, it becomes evident that despite a consistent percentage of agricultural land, GDP experienced fluctuations. This variation can be attributed to other factors such as manufacturing, imports, and exports.

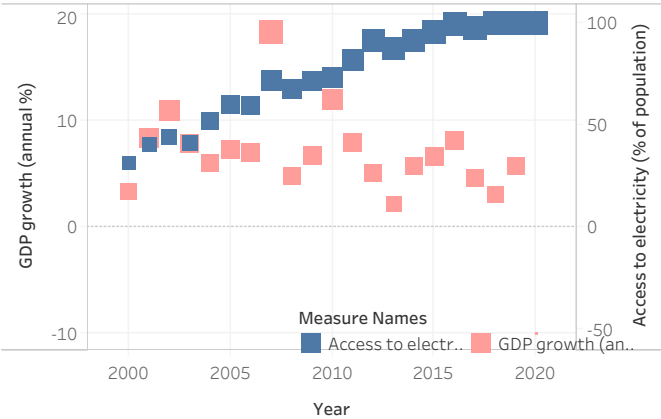
3.2) Have there been alterations in the GDP and national income of Bhutan throughout the years?

A) There have been minor fluctuations, but no significant changes. Bhutan's GDP reached its lowest point during the 2020 pandemic.

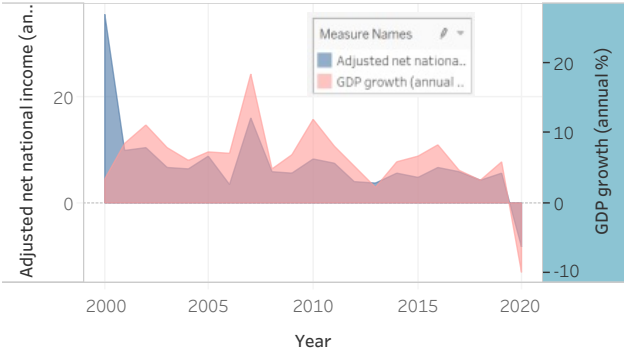
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Access to electricity with r..	Electricity with respect to land%	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carbon..	Breadth 5
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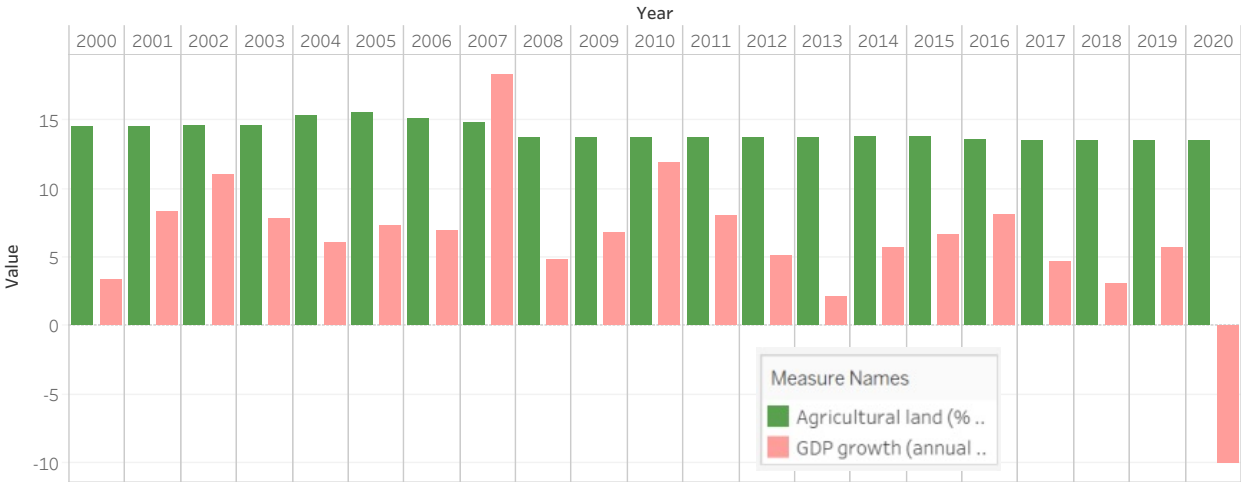
GDP vs Electricity



National income vs GDP



Agriculture land vs GDP



Story 1

Electricity with respect to land%	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carbon..	Breadth 5	Graphs of population against ..
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4) What is the development trajectory of air transport from 1998 to 2020?

A) Based on the scatter plot, it is evident that there was a substantial increase of up to 200% in air transport, followed by a sharp decline in 2020.

4.1) What is the influence of electricity accessibility on a country's capacity to establish and sustain a contemporary aviation industry?

A) The graph depicting air transport versus electricity indicates a direct correlation. As electricity accessibility improves, there is a corresponding increase in air transport.

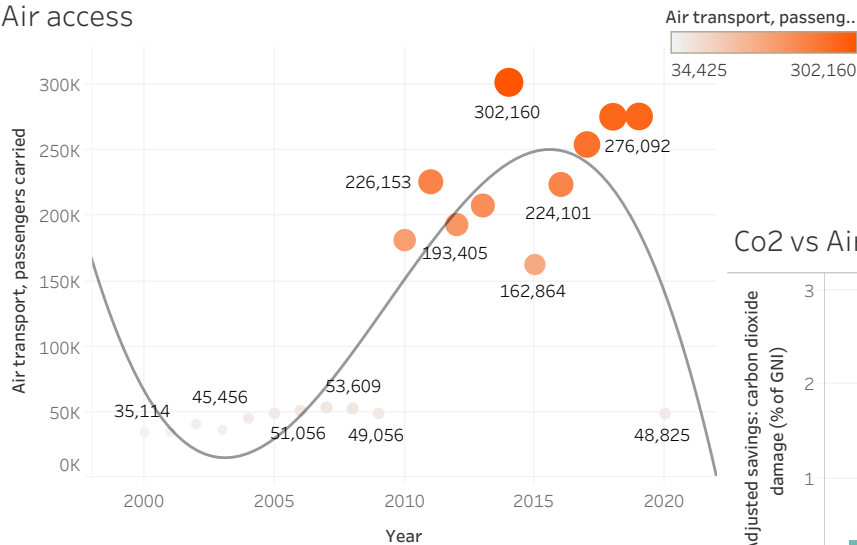
4.2) What is the impact of the airline industry on the generation of greenhouse gas emissions?

A) The rise in air transport has led to an increase in both greenhouse gas emissions and CO2 damage.

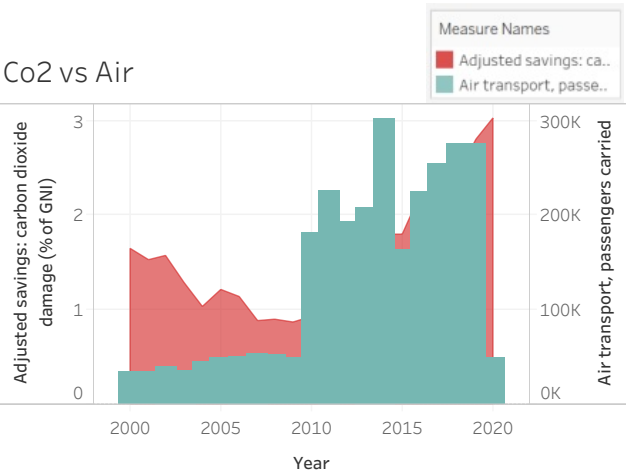
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Electricity with respect..	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carbon..	Breadth 5	Graphs of population against electricity, na..
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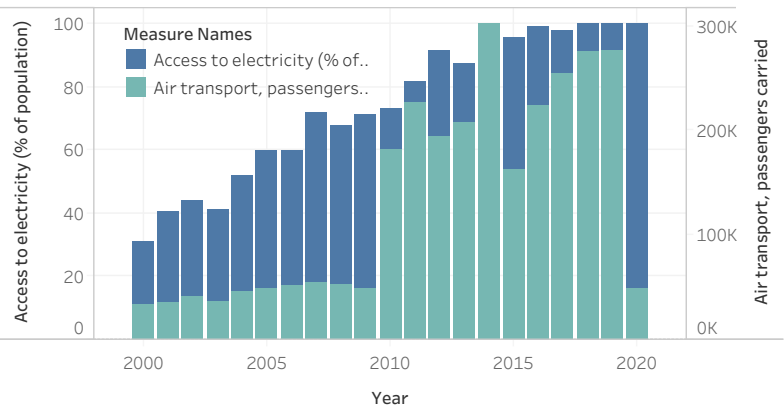
Air access



Co2 vs Air



Air vs Electricity



Story 1

Electricity with respect..	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carbon..	Breadth 5	Graphs of population against electricity, na..
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5) What are the differences in electricity accessibility between urban and rural populations in Bhutan?

A) Analyzing the stacked bar graph representing population versus electricity reveals that despite the growth in electricity access, the population has declined. This could be attributed to international migration.

5.1) How does the population impact the national income or GDP of a country?

A) Analyzing a line graph depicting population versus income versus GDP, it is evident that a decrease in population does not result in a corresponding change in GDP or national income. However, there is a sudden decline in GDP attributed to the pandemic in 2020.

5.2) What is the connection between an increase in population and the generation of carbon dioxide damage ?

A) According to the graph depicting population versus CO₂, there is an inverse relationship. As the population decreases, there is an increase in CO₂ damage, possibly due to agents emitting greenhouse gases.

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Electricity with respect..	Breadth 3	GDP with respect to electricity, national i..	Breadth 4	Air access vs electricity and carbon..	Breadth 5	Graphs of population against electricity, na..
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