

IDEAS

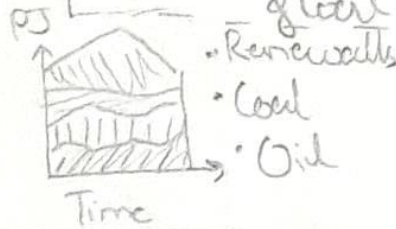
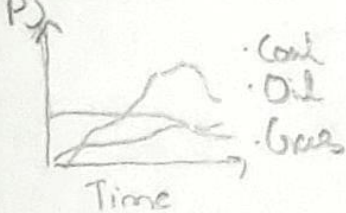
Energy in Australia

Energy Production/Consumption

- Production/Consumption using energy types
- Use a filter by time

Year: 2004 → 2023

• Charts:



Energy Imports/Exports

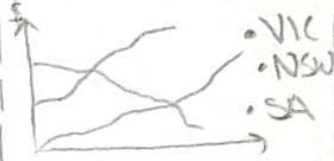
- Look at the imports/exports of different energy types
- Mention profits



2000T of Coal

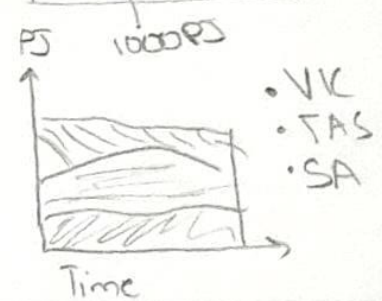
Energy Prices

- Show the prices for energy by state.
- Import/Export prices



Energy Usage

- Usage of energy by state/industry.
- Show in PJ.



QUESTIONS:

1. Are there enough charts?
2. Are the charts complex enough?
3. Are the sections/ideas unique?

FILTER

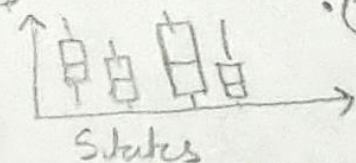
• Take the map chart as it is required for A2.

- Line charts for Energy Production/Consumption



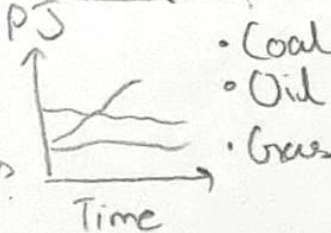
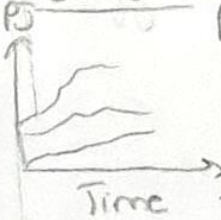
- Energy Imports/Exports Pie Chart

- Energy Prices Box Plot

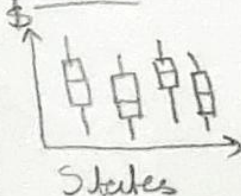


COMBINE and REFINE

Production/Consumption



Prices



Usage



CATEGORISE

- Energy Production/Consumption
- Energy Imports/Exports
- Energy Prices
- Energy Usage
- Focus on Renewables

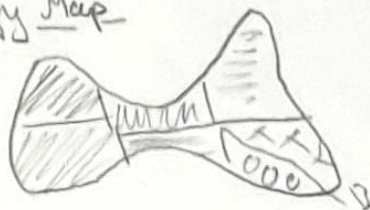
LAYOUT

This map shows the distribution of energy usage over the states of Australia for different energy types.

This section is about the imports/exports of energy types based of energy (PS).

This section looks at how much energy is produced by different energy types.

Energy Map



Energy Imports/Exports



Energy Production/Consumption



Title:

Dashboard View

Author: Anand Vannalath

Date: 07/10/2024

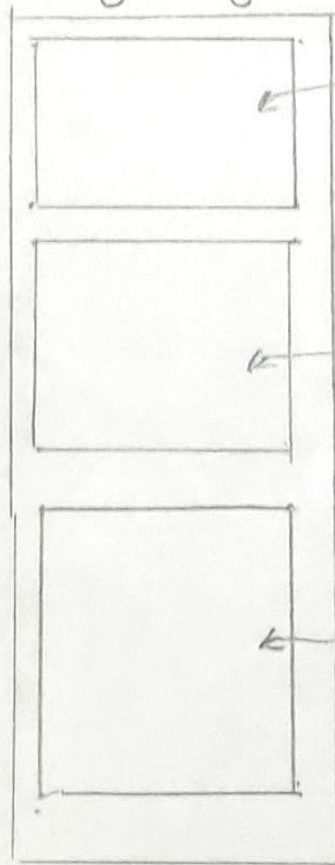
Sheet: 2

Task: Basic Page

This chart shows the consumption of different energy types over time.

FOCUS

The format goes over all the topics I could think of and tries to inform the reader by using going through those topics.



This introduces the user to Australia and provides a basic idea of what's going on.

This looks at imports/exports providing an view of international trade relative to Australia.

This brings it back to Australia by looking at production/consumption.

OPERATION

• Energy Map →

Fuel Type

<input checked="" type="checkbox"/>	Coal
<input type="checkbox"/>	Oil
<input type="checkbox"/>	Gas
<input type="checkbox"/>	Renewables

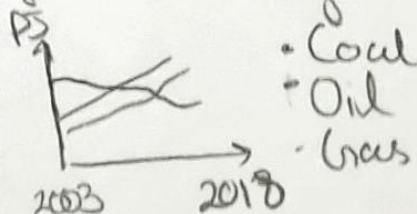
This filter allows the user to filter the map

using a selection menu.

• Energy Production/Consumption

Start: 2003 Max: 2024
End: 2018 Max: 2024

This is a slider which controls the time scale for charts e.g.



DISCUSSIONS

- There seem to be clear sections which indicate different aspects of energy in Australia.
- There needs to be one more complex chart.
- There is no correlation nor images nor articles.
- There is no section about Energy Prices

LAYOUT

Provides an explanation of trends in the chart

Shows the production of energy of different fuel types over time. Highlights trends of energy consumption.

Shows the split of energy types by energy imports. Highlights the trends of Energy imports

TITLE

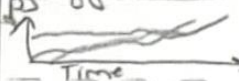
Energy Map



ANNOTATION

Shows the distribution of energy across Australia through different energy types

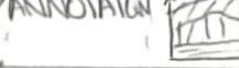
Energy Production



ANNOTATION

Highlights the trends of energy production

Energy Consumption



ANNOTATION

Shows the consumption of energy of different fuel types over time

Energy Imports



Energy Exports



ANNOTATION

ANNOTATION

Shows the split of energy types of energy exports.

Highlights the trends of energy exports

Title: Informed Dashboard View
Author: Anand Varnadeth
Date: 07/10/2024
Sheet: 3
Task: Informed Page

DISCUSSIONS

- There seem to be enough charts.
- There could be a section about Energy Prices.
- The filters apply to all charts.
- Could be some fun facts

FOCUS

TITLE

SUBTITLE

The TITLE of the visualisation shows what the visualisation is about.

The SUBTITLE provide an indication of what the section will be about like "Energy Production".

The ANNOTATION explain trends or outliers in the data.

SUBTITLE

SUBTITLE

The styling aspect is still maintained in the following visualisation

The text and charts are dynamically placed to make each section look unique.

OPERATION

Selection Menu:

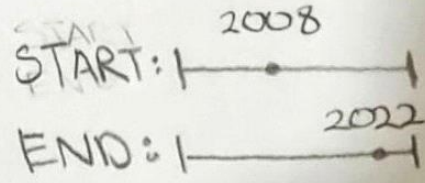
This is used to select a specific energy type.

This allows users to see direct data about an energy type.

▼	COAL
	OIL
	GAS
	RENEWABLES

Year Slider:

This is used to dictate which year a user would like to see a chart in



LAYOUT

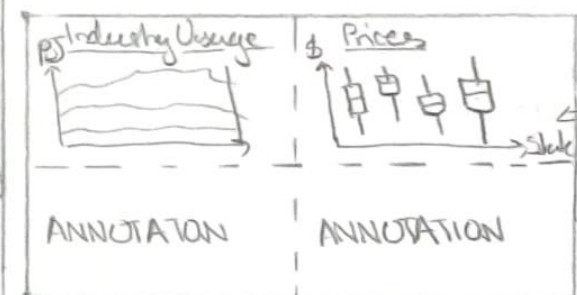
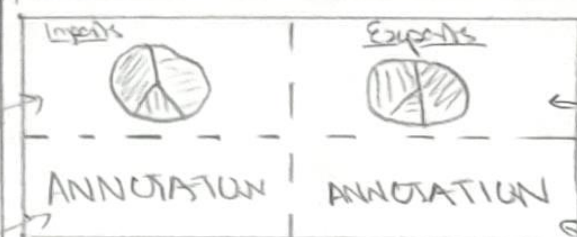
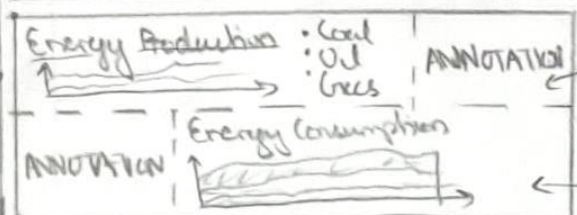
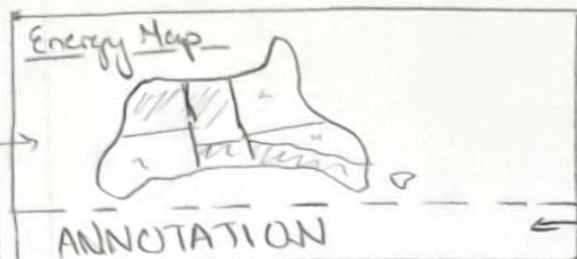
This shows the distribution of energy over different states for different energy types

This shows the production of energy for different energy types over time

This shows the inputs of energy products

Highlights trends
This shows the usage of energy for different industries in Australia.

TITLE



Indicates what the visualisation is about.

This shows the trends in the map

Highlights trends in Energy Production

This shows the consumption of energy over time.

This shows the exports of energy products

Highlights trends
Shows the prices of energy for different states.

Title: Page View
Author: Anand Varnalath
Date: 07/10/2024
Sheet: 4
Task: Adding more sections

DISCUSSIONS

- Contains a section focused on Energy Usage by industry and Energy Prices.
- Contains enough charts and complex charts
- Needs more general text.
- Could use an image.

FOCUS

This gives an idea of what the visualisation is about

The SUBTITLE are used to indicate the charts.

In this visualisation:

1. Energy Usage by Industry
2. Energy Price

were introduced in order to demonstrate more aspects of Energy in Australia

The box plot is a complex and unique chart used to show the energy prices.

TITLE

SUBTITLE

SUBTITLE

SUBTITLE

SUBTITLE

OPERATION

SELECTION MENU

Used to select a specific energy type and show only that type on a chart

▼	COAL
	OIL
	GAS
	RENEWABLES

YEAR SLIDER

START: 2000
END: 2022

Shows the years a user wants to look at

LAYOUT

ENERGY IN AUSTRALIA

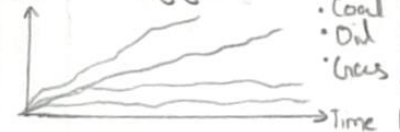
WHAT IS ENERGY? "DESCRIPTION"

Energy Usage by States



ANNOTATION

Energy Production/Consumption

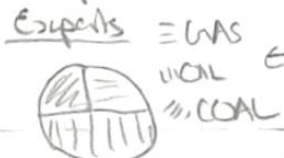
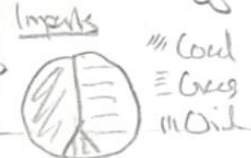


ANNOTATION



ANNOTATION

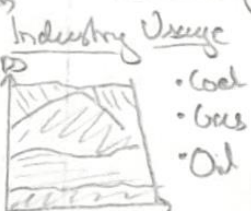
Energy Imports/Exports



ANNOTATION

ANNOTATION

Industry Usage/Prices



ANNOTATION

Prices



ANNOTATION

Introduces what visualisation is about.

This shows the distribution of energy across states for different fuel types.

Highlights trends

Highlights trends

Shows the energy consumption by energy type

Shows the energy imports of different types

Scrollable wheel to traverse the page.

This highlights trends.

This focus on the prices of electricity.

Title: Final Page View

Date: 07/10/2024

Sheet: 5

Task: Finalising Page View

DETAIL

- Alternating sections.
- Energy description to act as an introduction.
- Use of a scroll wheel to allow users to see large charts.

OPERATION

SELECTION MENU

▼	COAL
	GAS
	OIL
	RENEWABLES

This allows the user to select different types of energy.

TIME SLIDER

START: 2018
END: 2023

Shows the years the user can choose.

Provides an introduction about energy and hooks the reader in.

Shows the amount of energy produced by different types over time.

Highlights consumption trends.

Shows the imports of energy types

This highlights trends.

This highlights the consumption of energy of different types by different industries

FOCUS

"WHAT IS ENERGY"

This provides an introduction to the visualisation in order to hook the reader.

Scrollable wheel which means user scrolls on the visualisation

TITLE
CHART
DESCRIPTION

Solid line boxes which distinguish sections. And alternating background colours.