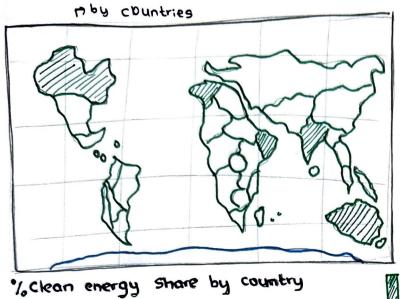
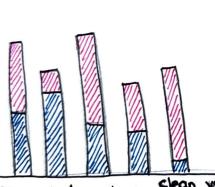
IDEAS



5 cheropleth map/bin map

Ranged bar chart-leaders in clean energy %



clean vs bar chark-Stacked

AND

REFINE

COMBINE

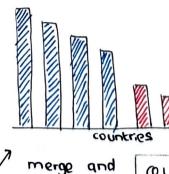
Leaders in clean energy Ranked Countries

Countries

Lolkpop chart worst performers in clean energy

bar

chart



combine

both

Best

1 Worst

80

60

40 20

Lollipop chart showing worst

- clean

performers

Treemap by country

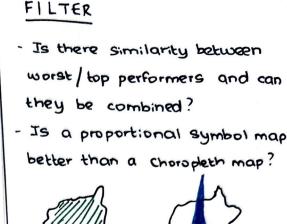
showing fuel us clean

fuel

we can have both best and worst performing countries in a single Ranked bar chart (By % clean energy Share)

QUESTION

- Is story being told good?
 - implementation doable?
 - of evaluation and comparisons?



proportionial Symbol choropleth b varies saturation 4 shows ratio petter stacked bar chart 4 shows good comparison. can be made interactive

CATEGORIZE

countries

Map to Show % clean energy shord Different countries comparisons Analyse best/worst performers with chark compare amongst charts

- "Is it aligning with main goal

Title: Clean energy shares LAYOUT (world map) -) Choropleth map showing % clean energy shares/countres % clean energy shares

OPERATION Ranked bar chart with filter

by Countries

Sheet: 2

countries

Date: 28/09/2025

Author: Aditya Ryan Somaro

Task: Visualize and compare

% clean energy shares by

Country China India UK France Mauribus

A drop-down 'Country' filter can be added to only display certain of the top countries

Main Focus is on the choropleth map. Focus

Ridgeline plot - commissioning

year by bop counties

The other charts complement the choropleth map.

Ranked bar chart to show too

countries in % clean energy shares

% clean energy shares by Countries (2024) 70CES

The focus is on the big choropleth world map. shows an overview of % clean energy shares by countries. Countries with greater saturation are the sources of higher clean % of energy shares.

80 60 40 % clean energy

name Irour

DISC USSIONS

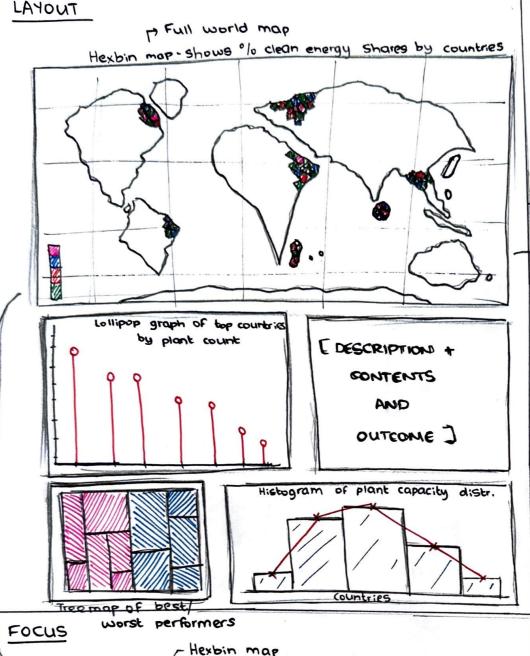
V Is Sufficient information being displayed?

V More in-line text descriptions to be added in between charts and map

√ Is everything being displayed relevant to the topic domain?

v Can we also include maps for individual countries and their regions? bor is it too much information?

v can additional interactive elements be added?



Title: Clean energy Shares by

Countries

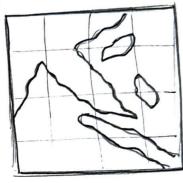
Author: Aditya Ryan Somaroo

Date: 30/09/2025

Sheet: 3

Task: Visualize and compare % clean energy shares by countries

OPERATION



Q Zoom-in/out

Bin map can be zoomed in and out to better analyse singular regions and clusters.

DISCUSSIONS

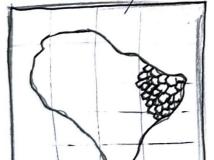
✓ Is sufficient information being displayed?

Is story interesting enough?

v Are there too many charts or is it the right amount?

V Is implementation doable?

John Should more descriptive text be added?



Focus is on the hexbin map, with varying color hues.

Shows more distinct categorization of % clean energy shares per countries and regions also.

Map can also be zoomed in.

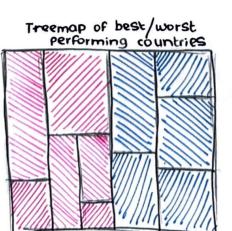
(Zoomed in view shown here)

Treemap also put into Best

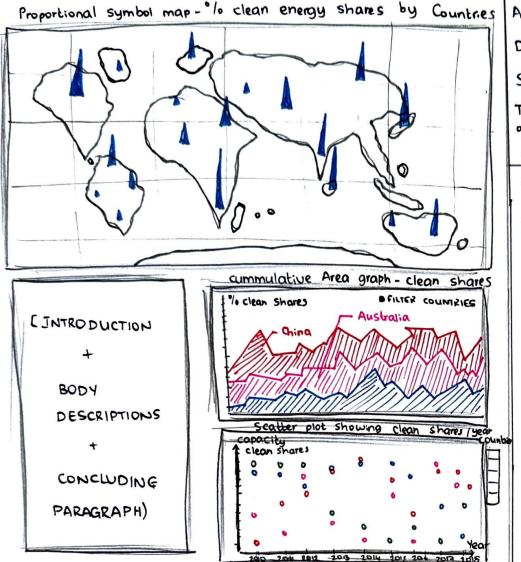
focus, showcasing the

best/wost performing countries

in % clean energy shares.



LAYOUT



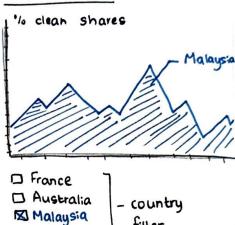
Title: Clean energy shares by Countries

> Author: Aditya Ryan Somaroo Date: 01/10/2025

Sheet: 4

Task: Visualize and compare % clean energy shares by countries

OPERATION



□ China Add a country filter to the cummulative Area chart to only show selected countries

filter

on the chart

DISCUSSIONS

VIs enough information being displayed?

v Can some of the idioms be improved?

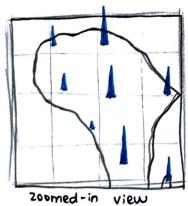
V Is the map accurately showing the data?

✓ Is implementation doable?

v Does the layout provide a good flow for users?

Can further interactive elements be added!

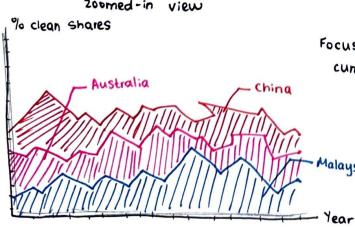
Focus proportional symbol map



- Height of triangle % clean shares for each country

The proportional symbol map shows triangles that display the % clean energy shares per country Gives good leasy compansons at a glance.

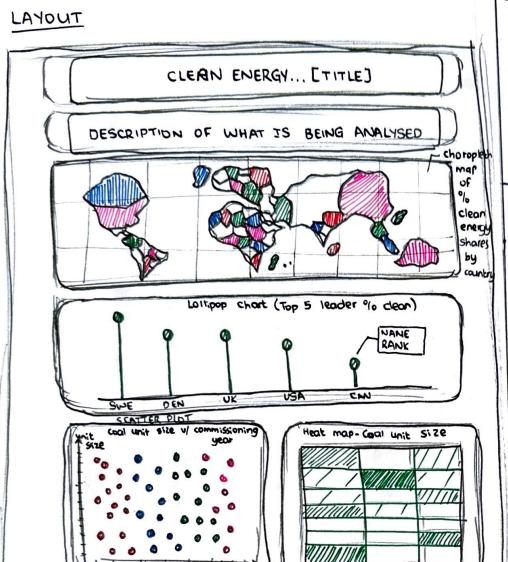
% clean shares



Focus is also on the cummulative Area graph as it shows how

> % clean energy Shares grows

Malaysia with time.



FOCUS

focus is on the full website

- O Chroropleth map shows

 *lo clean energy shares per

 country. Graticules 30 used.

 Shows an overview and

 introduction.
- ② Following O, there is a Lollipop chart, which shows Top 5 leaders in o/o clean energy shares. Gives more context.
- (3) Scatter plot showing coal unit size per decode, to give more insights on coal, as compared to clean energy. Has slider and drop-down filters.
- Theatmap of coal unit Size per year also shows trends and how concentrated they are.

 Will also contain a Slider filter.

* Conclusion bubble to give a conclusion of the Analysis.

Title: Final Design Sheet

Author: Aditya Ryan Somaroo

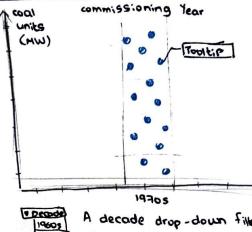
Date: 01/10/2025

Sheet: 5

Task: Final implementation

design

OPERATION



A decade drop-down filler added to scatter plot to liggos view only data for specific decades.

Coal unit (HW) stiders also added.

4 Slider filters can also be added to the heatmap for more interactivity.

DETAILS

- Opening paragraphs to give a small description.
- Small conclusion to analyse.
- Vegalite + Pure css + Html used to implement visualisation.
- √Datasets used:

used.

- Global power plant.csv
- GER. energy, shares, csv
- Coheave colours/typingraphy to be used throughout.
- V Easy, not too time consuming to mare.

 Estimated time ~ 3 to 4 days
- VInteractive elements to be