

# IDEA

AUS ~~renewable~~ renewable energy consumption + generation  
 & Greenhouse gas emission

Data: OUR WORLD DATA, Global Carbon Atlas

Aus Gov - Dept of climate change, energy

① renewable energy  
 used for primary  
 consumption

GLOBAL

③ AUS generation  
 of renewables

Total AUS

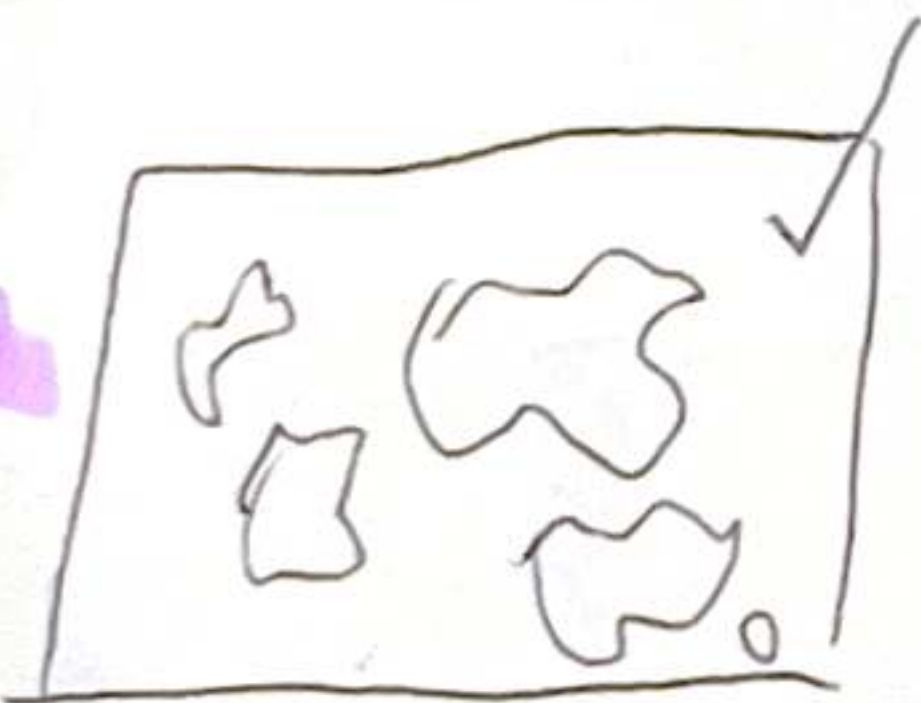
② AUS state consumption  
 of fossil fuel  
 + renewable

④ Greenhouse gas  
 emission

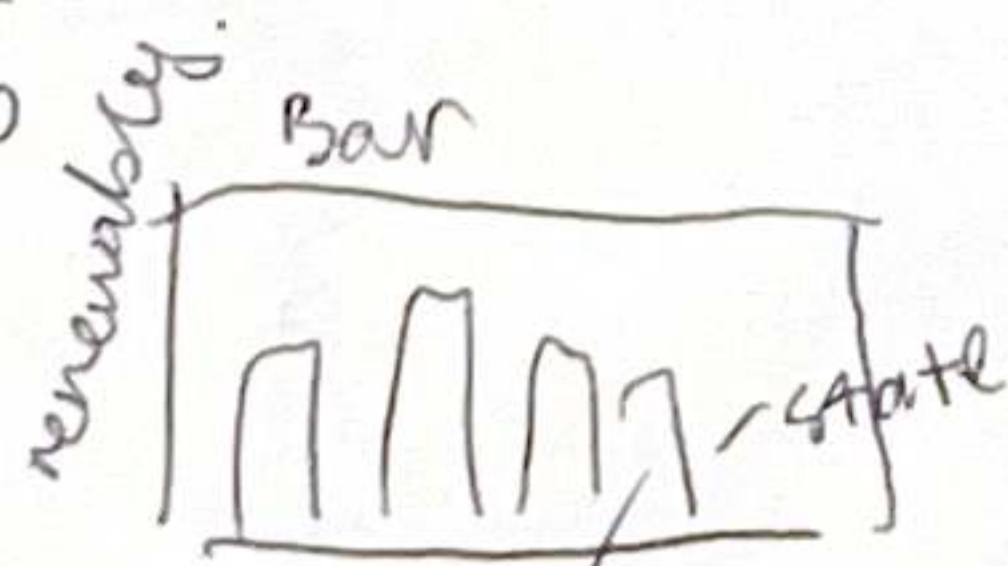
GLOBAL

⑤ CO<sub>2</sub>  
 Emission

GLOBAL



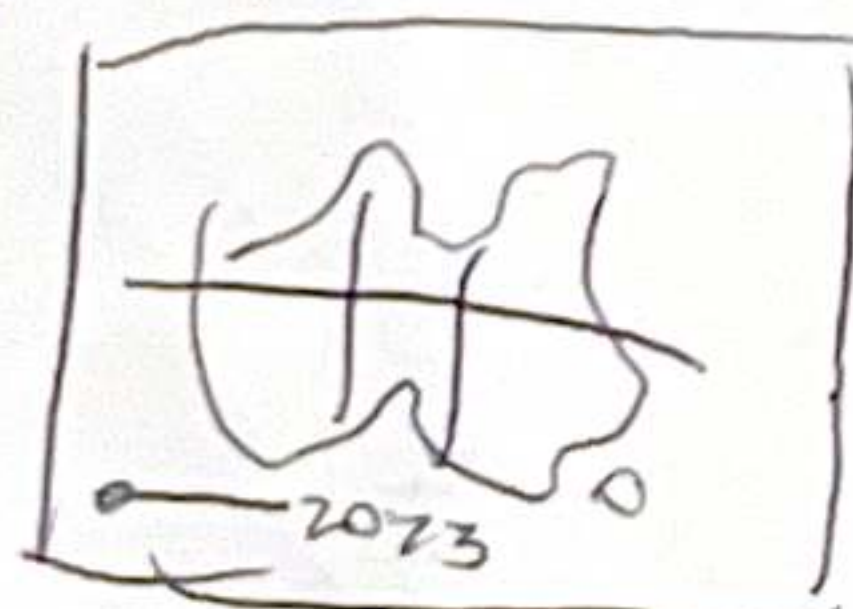
chloropleth map



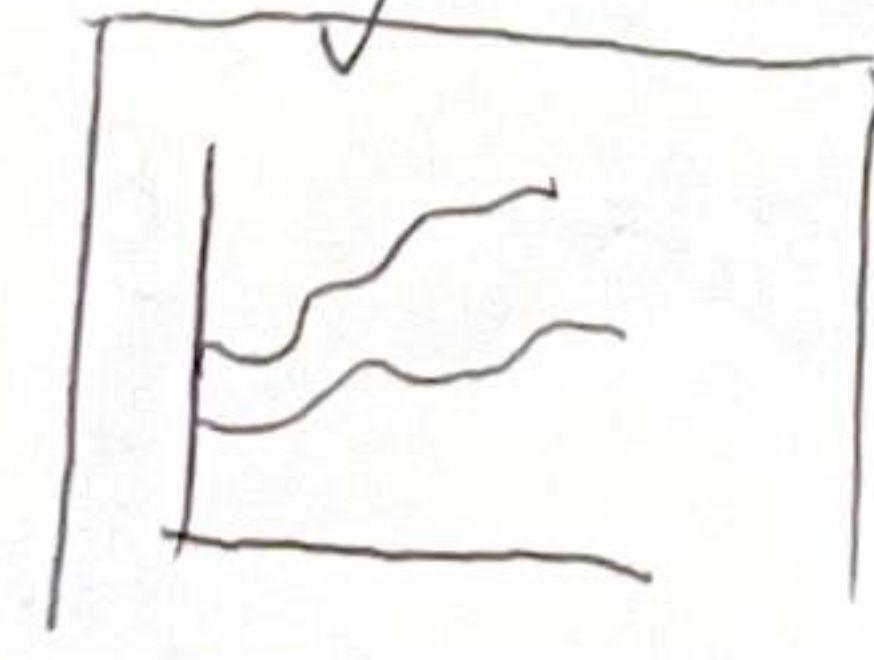
renewable

Bar

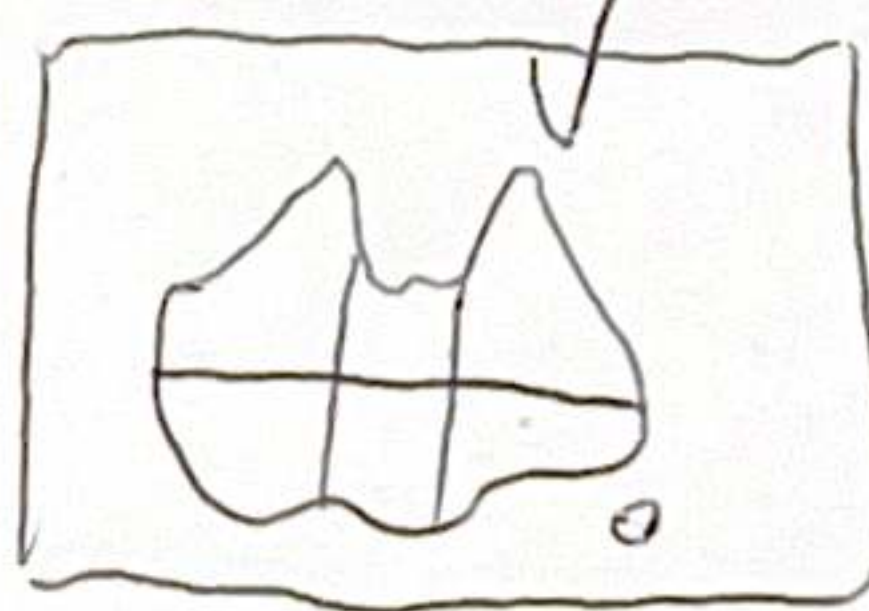
state



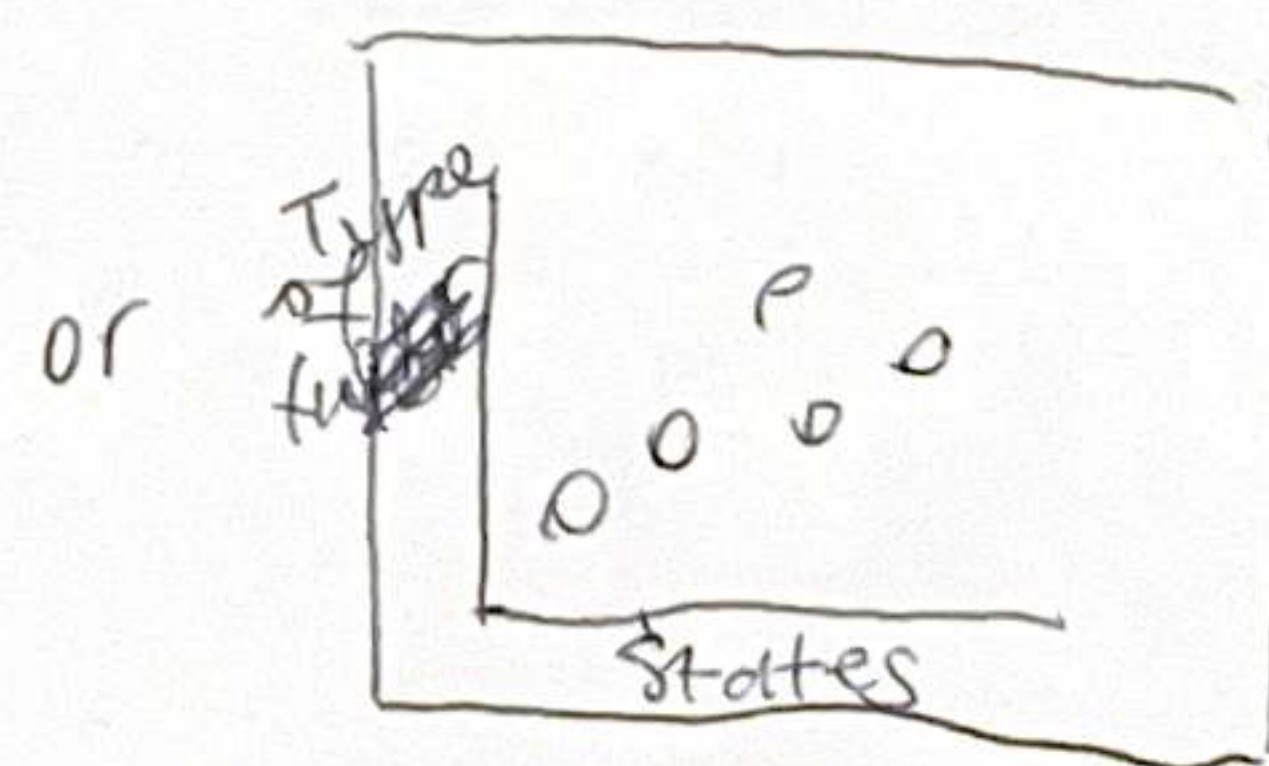
chloropleth map



Line graph



Regional map

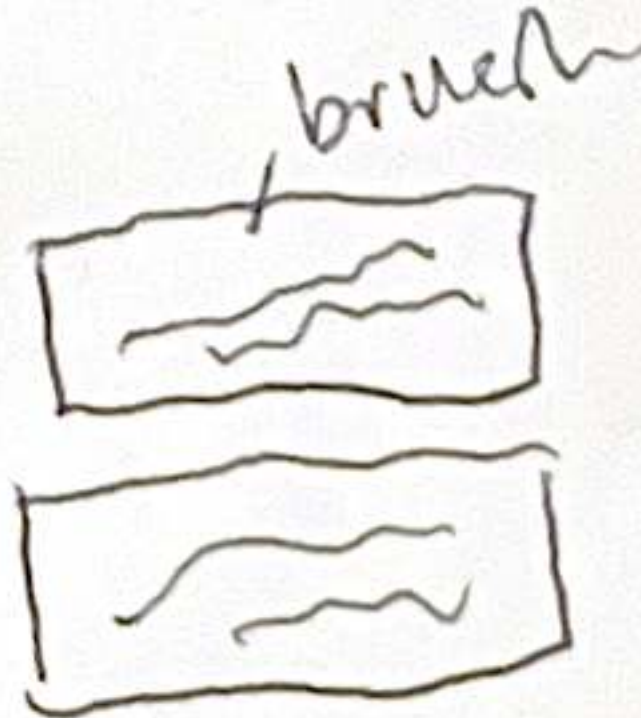


Bubble plot

## CATEGORISE

4 maps

1 Line graph

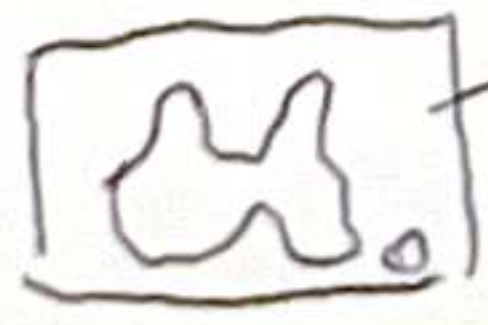


brush

## Filter

- yearly + continents - global maps

- fuel types



Aus

## combine/Refine

- combine CO<sub>2</sub> and Greenhouse gas

- or combine GHG and Renewable

Annotation  
 can i show  
 Australia alone?

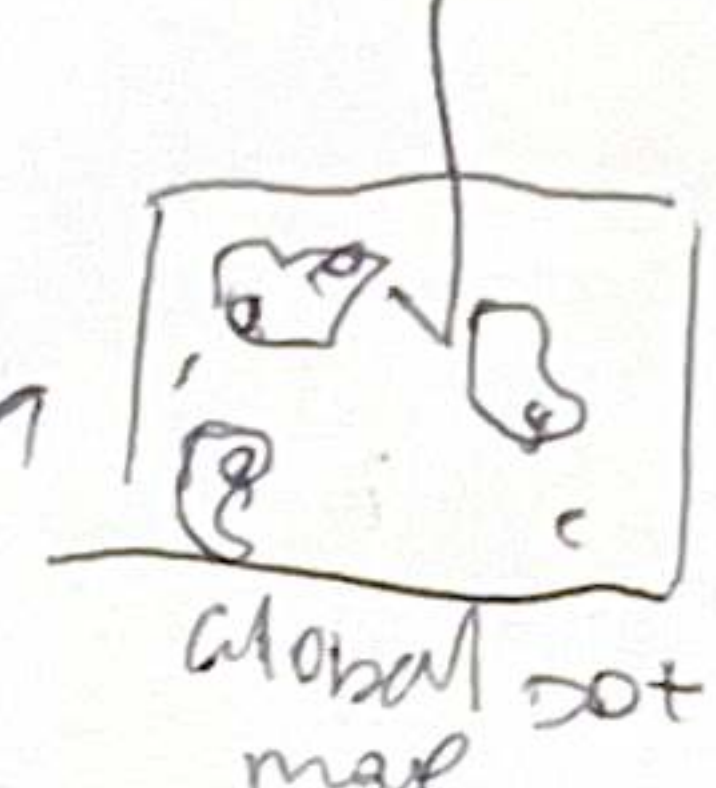
Dot map



or



Heat map



Global dot map



# LAYOUT



tooltip: - country  
- consumption

Title: Renewable  
Energy consumption  
(1970 - 2023)

Author: Jazdeia  
Saheshkumar

Sheet: 2

Date: ~~19~~ 19/9/24

Task: get best  
data to have  
no patches.

## OPERATION

Year 1970 ————— 2023  
slider

## Discussions

- Get enough  
data to fit  
globally

- clean data  
to handle missing  
value

- Normalise because  
big data values.

## FOCUS

slider

\$

colour  
scale

1970 ————— 2023

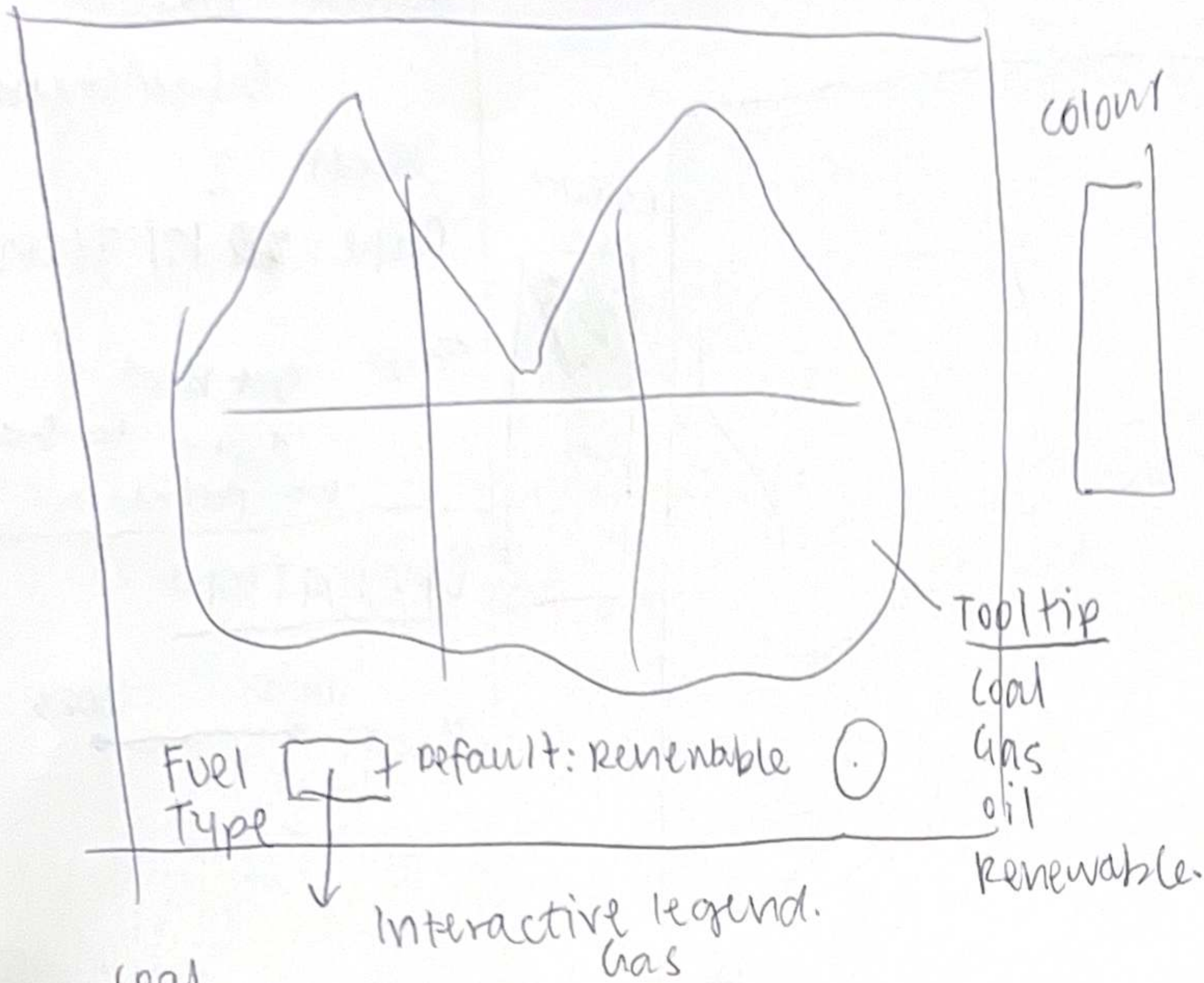
Green

- reshape data - from 1970 → 2023 to 1970

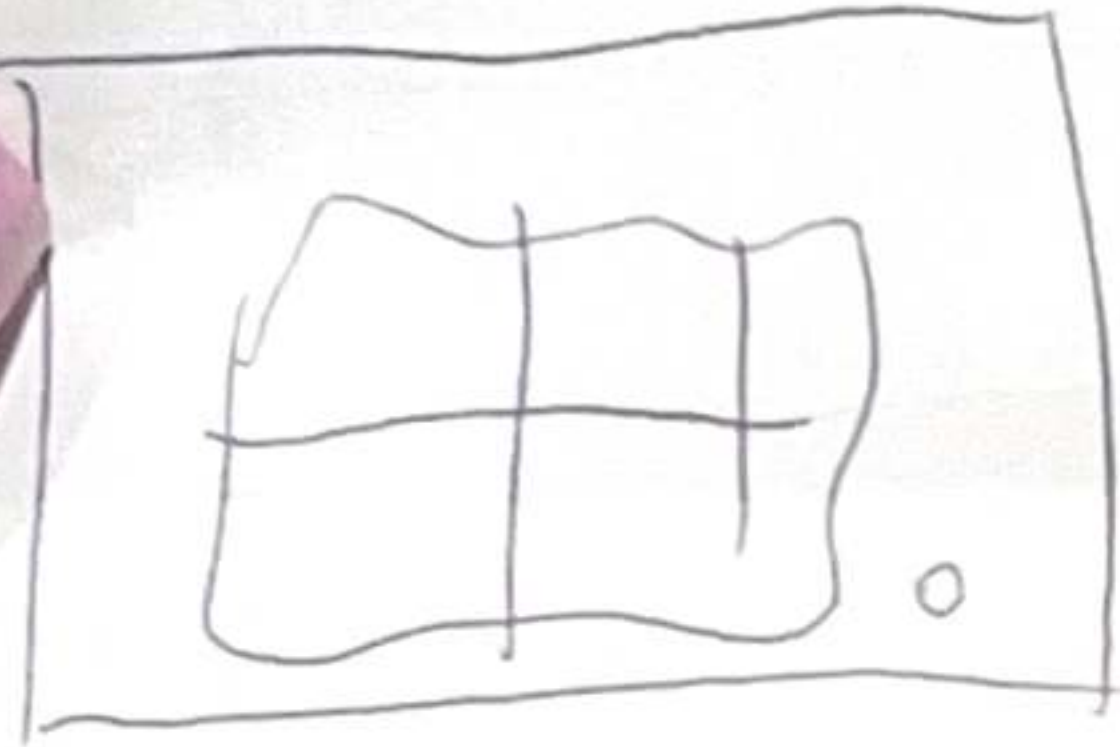
↓  
2023



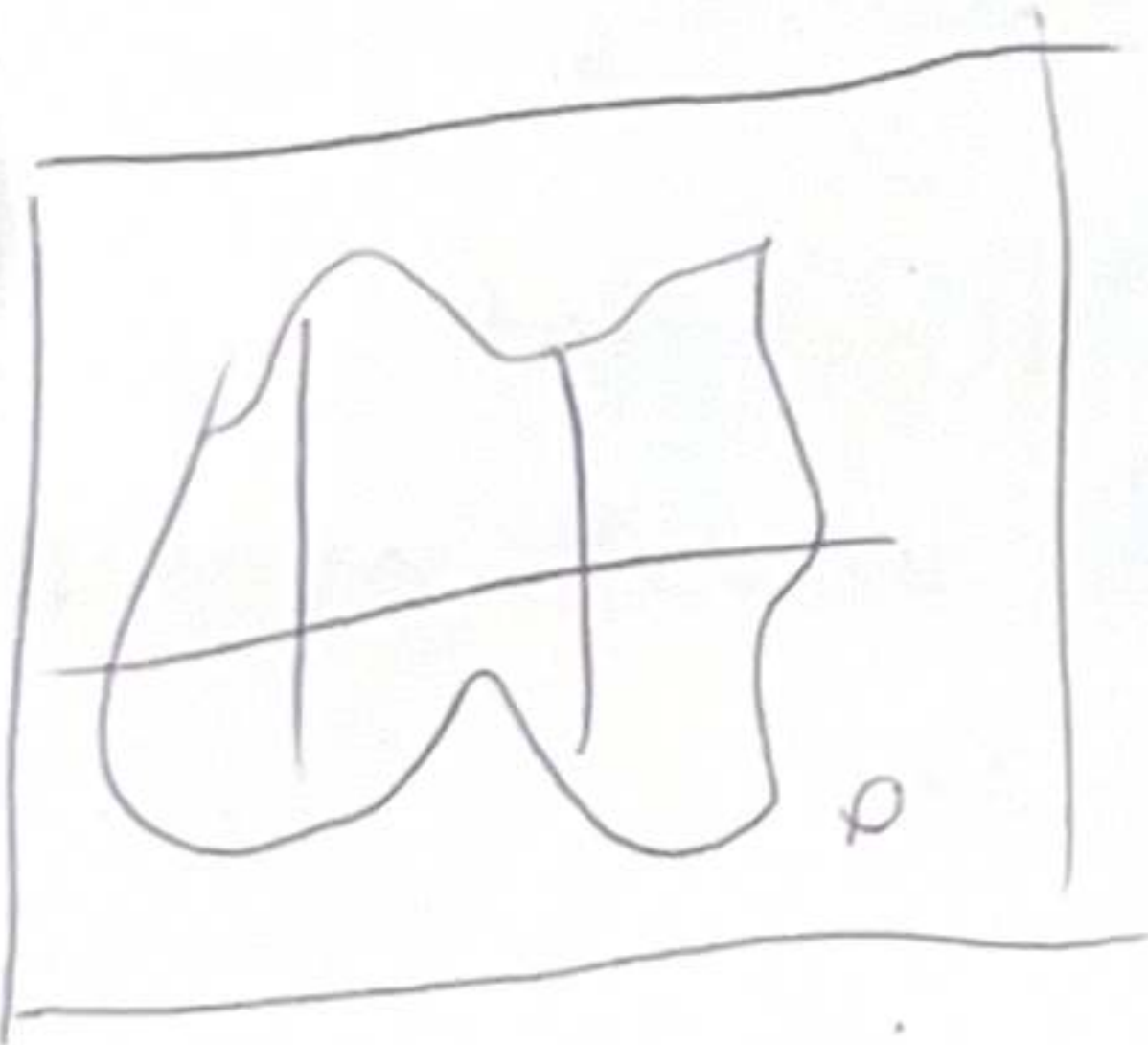
# LAYOUT



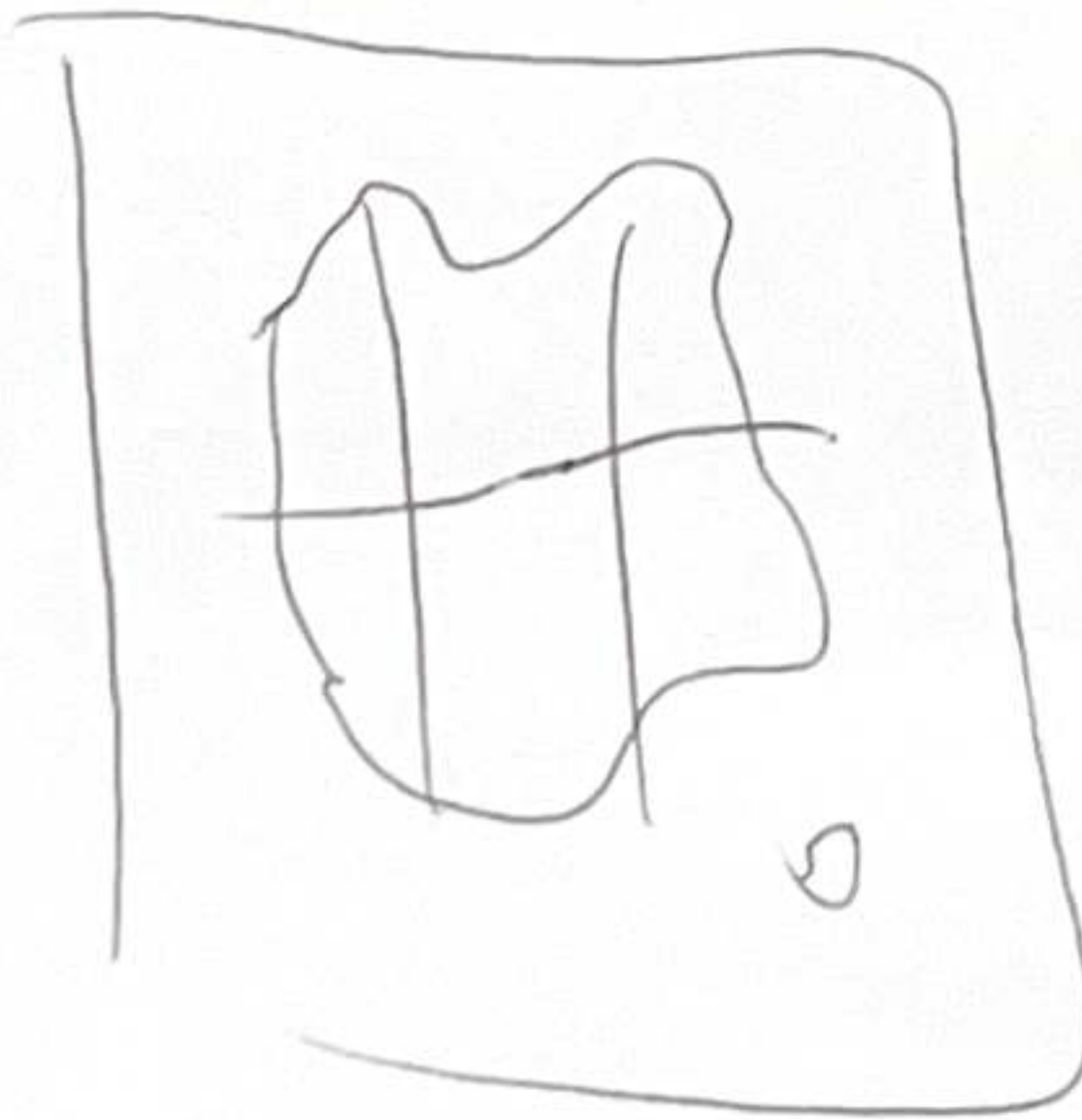
coal



oil



renewables



## FOCUS

- ~~diff~~ showing diff fuel types
- need to change to percentage data

Title: Aus State

Energy  
Consumption

Author: Jascika

Sahesh Kumar

Date: 19/9/24

Sheet: 3

## Operations

- Types of fuel

Coal V

Renewable

oil

gas

## Discussion

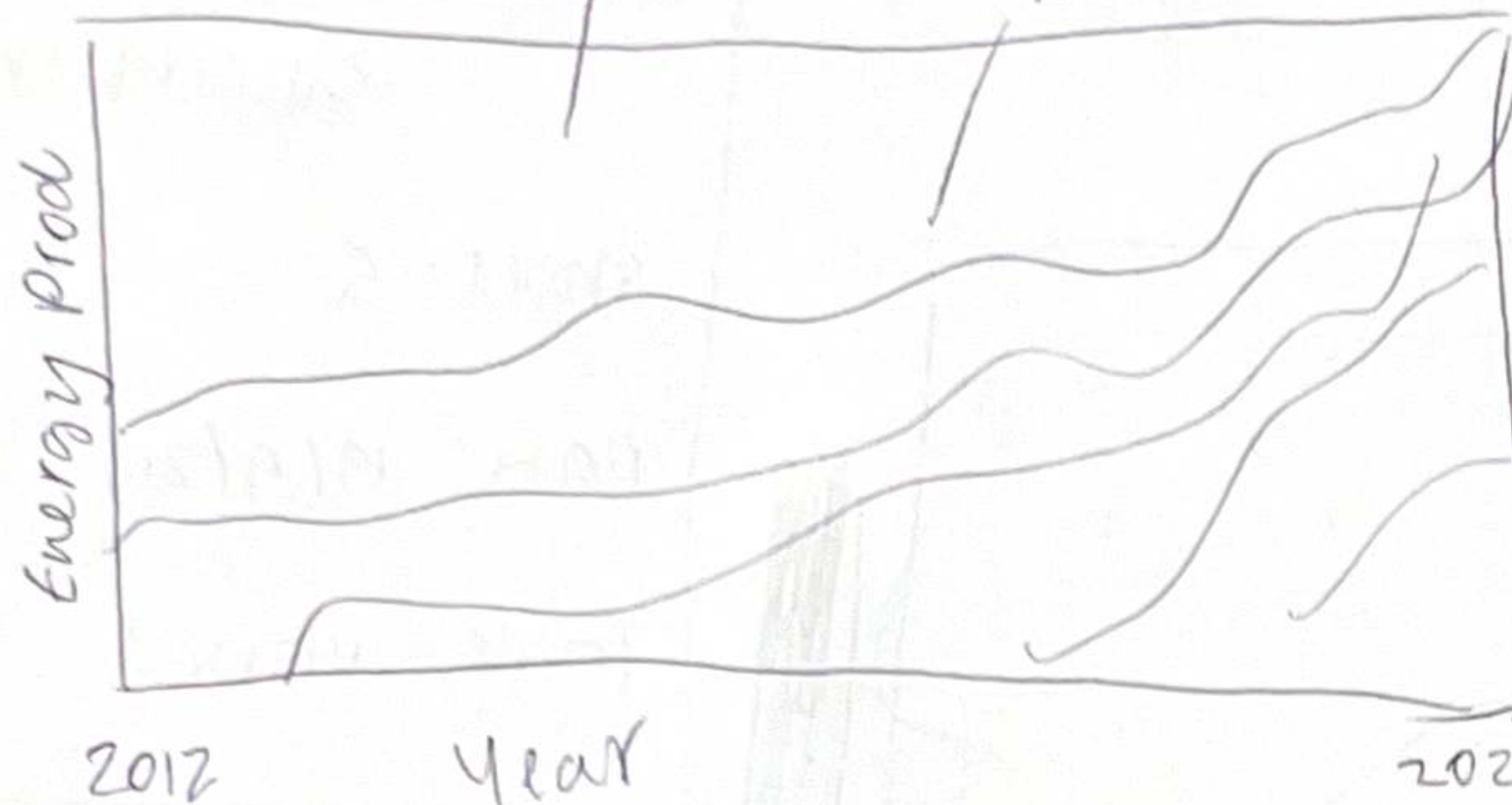
keep default  
graph to  
renewables  
for showing  
the green  
transition.



# LAYOUT

Brushable time range selector  
to zoom

Area chart



Legend

o Biogas

o Bioenergy (wood)

o Hydro

o Solar

o Wind

Title: Renewable  
Energy source  
Generation

Author: Tasaka  
Sakshin  
mar

Sheet  
4

Date: 19/09/21

Task: generate  
visualisation

Operation

o Biogas

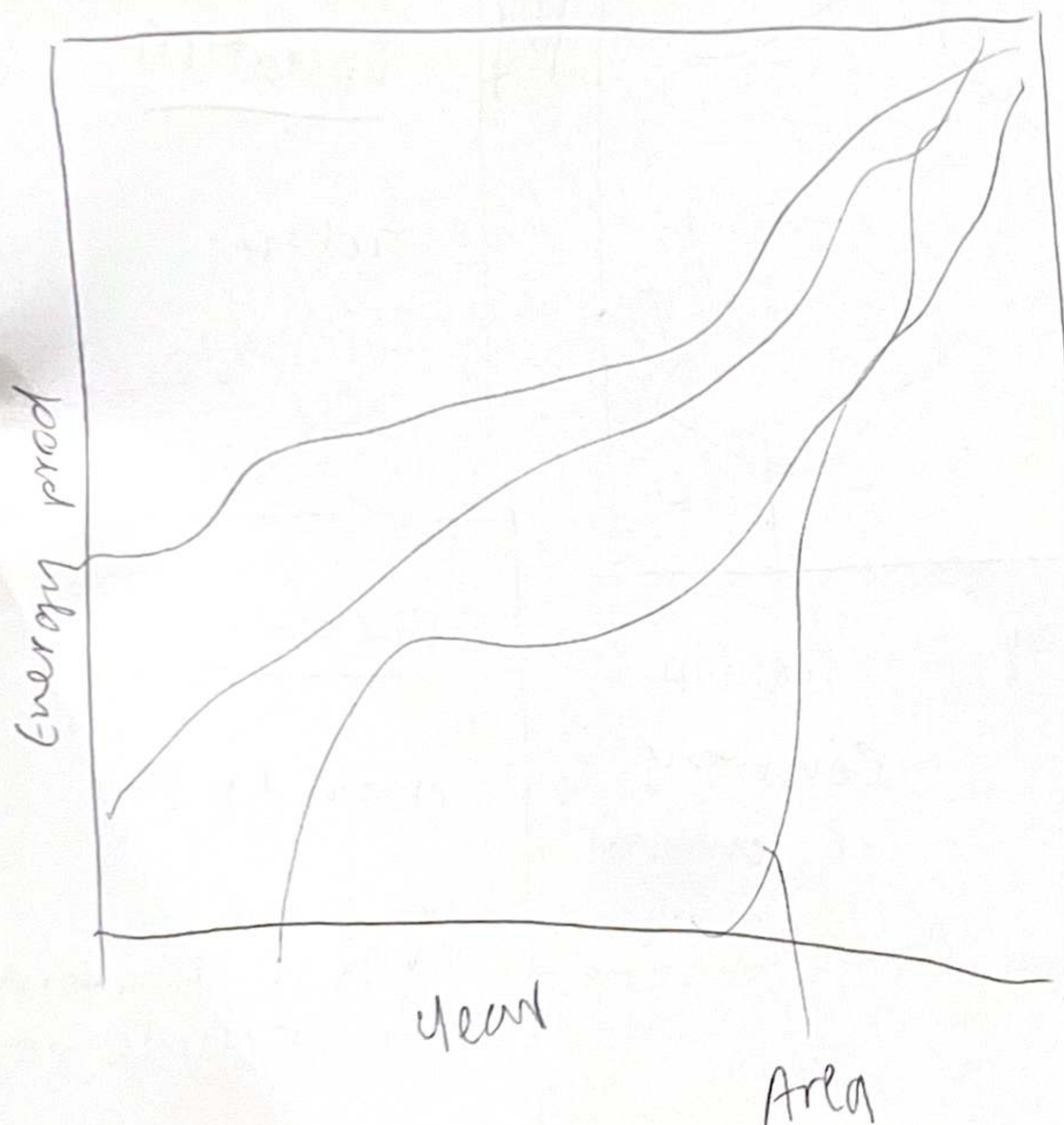
o Bioenergy (wood)

o Hydro power

o Large scale solar

o Small scale solar

o Wind



Focus

- Limiting data - to many years  
show last decade

so reshape data

- Zoom

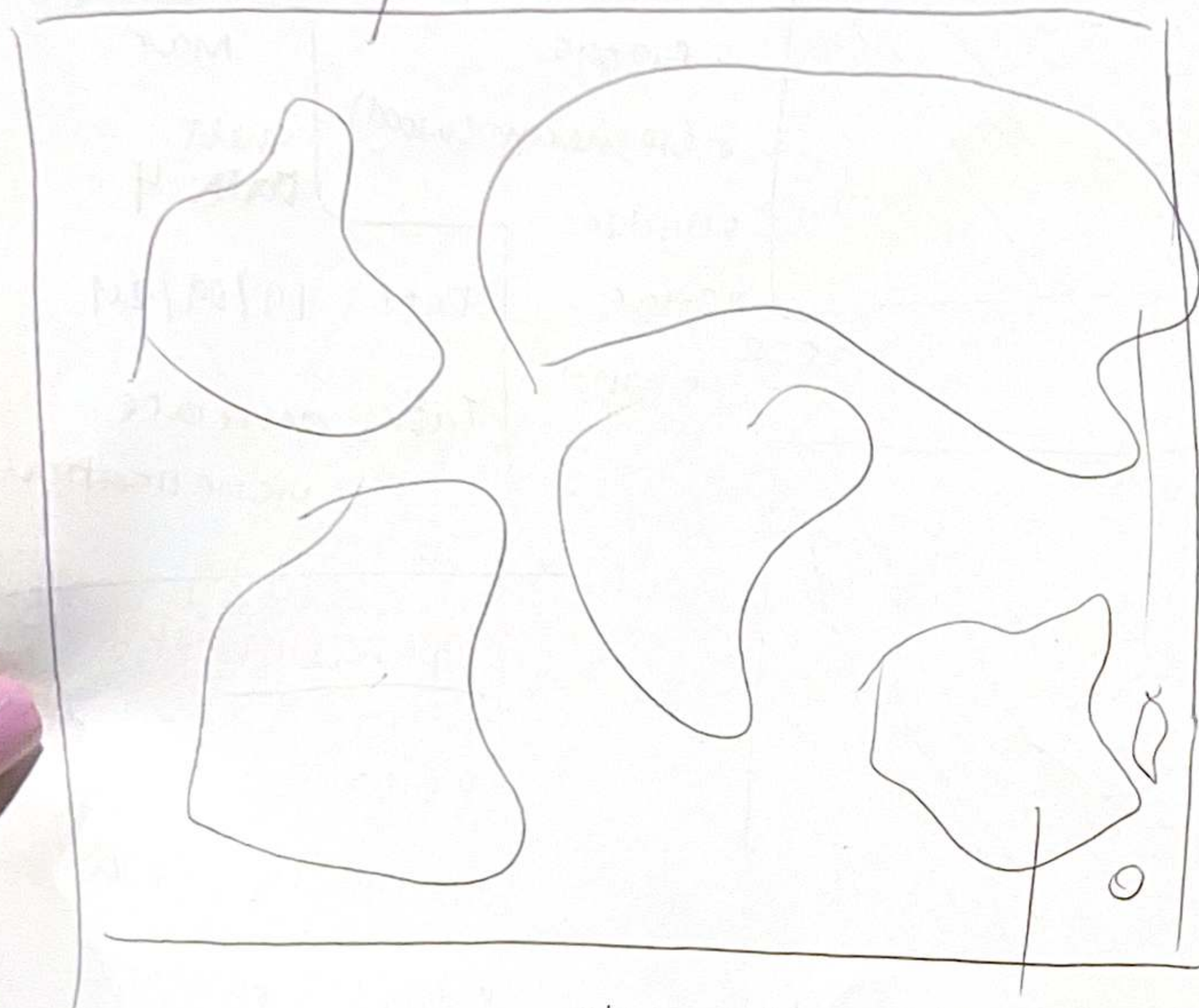
Discussion

- Zoom function  
to look specific  
dates



# Layout

/ faul earth



Chloropleth map

Tool tip  
Country  
CO<sub>2</sub> emissions

Title: CO<sub>2</sub> emission

Author: Jasika  
Saheshkumar

Sheet: 5

Date: 19/9/21

Task: visual

Operation

Tool tip

Discussion

- clean data
- reshape  
not in tidy format
- only include 2023
- use log scale

Focus

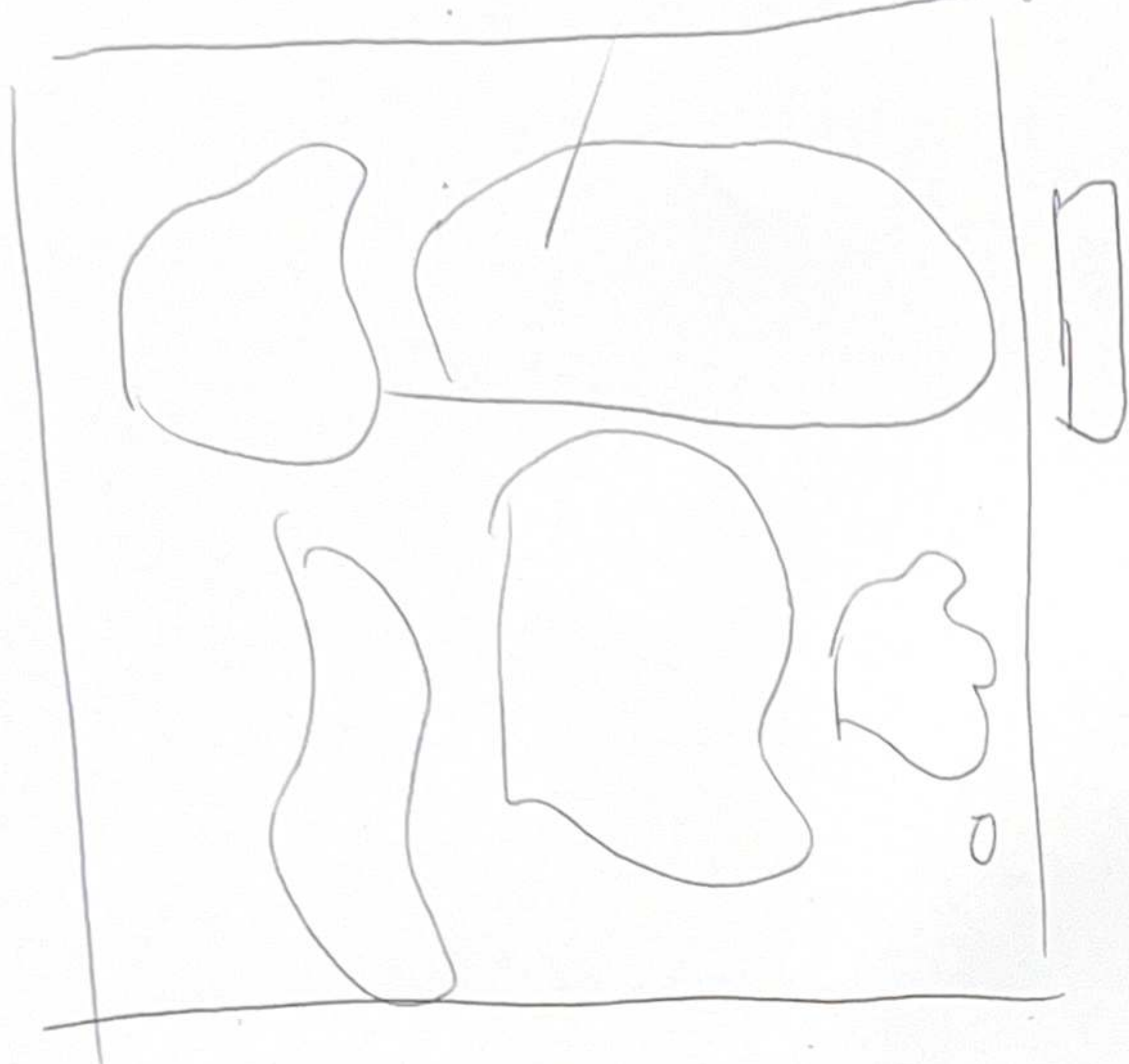


- like a green  
dark blue  
colour scale  
red scale



## Layout

Tooltip: Country  
CO<sub>2</sub> equivalent



chloropleth  
map

Title: ~~CO<sub>2</sub>~~

Green  
house Gas  
Emission

Author: Jasika  
Sakshikumar

Date: 19/9/24

Operation

Tooltip

Focus

- Green/Blue scale
- remap data

Discussion

- for N/A countries  
put in grey
- Outline grey