**Name:** Megan Jacobs **Date:** 11/09/2021

**Lab section:** Tuesday 9:30am – 11:20am

**Show your work!!!**

# Acquire

Week: 5

Date: 01.02.2021 Year: **2021** Data: Renewables Overtake Fossil Fuels in Europe

**Source Article/Visualization:**

<https://ember-climate.org/project/eu-power-sector-2020/>

<https://data.world/makeovermonday/2021w5>

<https://www.makeovermonday.co.uk/data/data-sets-2018/>

# Represent

Chart, line chart

Description automatically generated

# Critique

I enjoy the use of color within this visualization to show renewable energy compared to fossil fuels and I also enjoy how we can see the comparison of all renewable energy and fossil fuels. It is cool to see as well the comparison of wind and solar compared to coal.

Some things that I dislike about this visualization is that there is no legend for the lines to show which is which and how close the renewable energy title is to the fossil fuels. Also there are no axis titles to both the X and Y axis. I plan to create a legend, create titles for the X and Y axis and try a new visualization since it is just a line graph.

This visualization falls under the data visualization category since the visualization is representing the data in a form that uses a system to represent the data in a simplified way. With that being said this visualization is an overview of the data since it is not focusing in on a specific area of the data, it is focusing on the broad scope of all the data. Finally, this diagram makes the user have convergent thinking because the user is being given a visualization that has already reduced the complexity of the data and simplified it into a visualization that we can take insights from.

# Mine

What countries of Europe is this data set taking from? Can we narrow the countries of Europe to showcase which countries are using more renewable energy compared to others?

**Filter**

Graphical user interface, table

Description automatically generated with medium confidence

# Stakeholders

 Who is your audience? What assumptions did you make? What visualization tool/software did you use?

**What to submit:** This document in PDF format only (if you do not know how to do this, ask).

**Choose the best layout** for your makeover visualization: Portrait or Landscape, Remove the page of the layout that you DO NOT choose. No blank pages!

# NEW Sketch your Makeover

In the space below, sketch out your ideas for refined visualization. You must use pen/pencil and paper to sketch out your idea, then take a photo of your sketch and include it in the space below.

A notebook with writing on it

Description automatically generated with medium confidence

Figure 1: Sketches of Visualization

# Refine (Makeover – Portrait View)

In the space below, show the computer-generated version of your sketch using the visualization tool of your choice. DO NOT draw what you sketched. The visualization should be created with the visualization tool (Tableau, Excel, Power BI, etc., of your choosing). Remember, the purpose of visualization is *“insight.”* Take and include a screenshot of your visualization and include it below. Use Data Visualization Best Practices (see data visualization checklist). You MUST use more advanced chart types

for your makeover. **Chart types that are not allowed: bar (single or stacked), pie, line charts, scatter**

**plots, no tables.** Map

Description automatically generatedFigure 2. The final visualization makeover. This visualization compares percentage of share production of electricity in Europe from 2010 to 2020. On the right we can see the renewable energy sources and on the left we can see fossil fuels. In this comparison we can get a good understanding of which countries in Europe are making great strides towards.

CGT 270 Data Visualization

Makeover Monday #4 (2021 Dataset)

# Resources

Data Visualization Checklist: <http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf>

How to give constructive criticism: <https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers <https://www.makeovermonday.co.uk/gallery/>

# Grading Rubric

|  |  |  |  |
| --- | --- | --- | --- |
| **Excellent (11-15 pts)** | **Good**  **(6 -10 pts)** | **Fair**  **(2-5 pts)** | **Needs Improvement**  **(0 - 1 pt)** |
| Meets **ALL** or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed. | Meets **MOST** of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the  visualization), assumptions (more than one) are listed. | Consistently meets **SOME** of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive  (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the  visualization), assumptions (more than one) are listed. | Little to no evidence of the understanding of the data visualization process.  Lackluster makeover or no makeover.  Little effort. |
| Sketch included: hand drawn [5 pts] | Sketch included, but was generated by computer [2 pts] | No sketch included. [0 pts] |  |
| Makeover Monday  Assessment Completed  [5 pts] | Makeover Monday Assessment not completed [0 pts] |  |  |

Fall 2021 – Makeover Monday #4