CGT 270 Data Visualization
Makeover Monday #2 (2019 Dataset)

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Lab section: CGT270-009

Show your work!!!

Acquire

Week: 8

Date: Feb 18th Year: **2019** Data: American Wind Energy Association via Choose Energy

Source Article/Visualization:

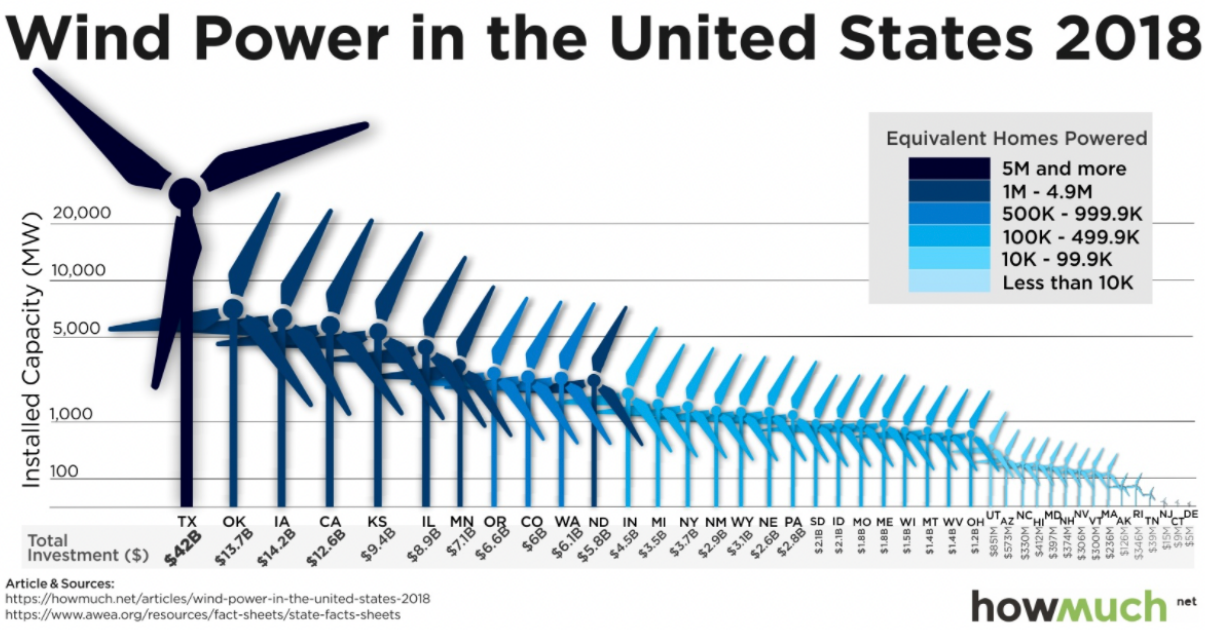
Ranking	State	Installed Capacity (MW)	Equivalent Homes Powered
1	TEXAS	23,262	6,235,000
2	OKLAHOMA	7,495	2,268,000
3	IOWA	7,312	1,935,000
4	CALIFORNIA	5,686	1,298,000
5	KANSAS	5,110	1,719,000
6	ILLINOIS	4,464	1,050,000
7	MINNESOTA	3,699	1,012,000
8	OREGON	3,213	604,600
9	COLORADO	3,106	889,100
10	WASHINGTON	3,075	695,300
11	NORTH DAKOTA	2,996	1,021,000
12	INDIANA	2,117	440,700
13	MICHIGAN	1,904	471,700
14	NEW YORK	1,829	366,500
15	NEW MEXICO	1,682	422,100
16	WYOMING	1,489	408,700
17	NEBRASKA	1,445	486,700
18	PENNSYLVANIA	1,369	314,000
19	SOUTH DAKOTA	977	293,100

20	IDAHO	973	228,000
21	MISSOURI	959	181,100
22	MAINE	923	206,500
23	WISCONSIN	746	142,100
24	MONTANA	720	199,800
25	WEST VIRGINIA	686	149,300
26	OHIO	617	145,300
27	UTAH	391	86,900
28	ARIZONA	268	54,600
29	NORTH CAROLINA	208	43,800
30	HAWAII	206	59,800
31	MARYLAND	191	47,500
32	NEW HAMPSHIRE	185	38,500
33	NEVADA	152	33,600
34	VERMONT	149	25,900
35	MASSACHUSETTS	113	20,500
36	ALASKA	62	15,200
37	RHODE ISLAND	54	14,200
38	TENNESSEE	29	2,800
39	NEW JERSEY	9	1,900
40	CONNECTICUT	5	1,300
41	DELAWARE	2	NA
NA	ALABAMA	0	NA
NA	ARKANSAS	0	NA
NA	FLORIDA	0	NA
NA	GEORGIA	0	NA
NA	KENTUCKY	0	NA
NA	LOUISIANA	0	NA

NA	MISSISSIPPI	0	NA
NA	SOUTH CAROLINA	0	NA
NA	VIRGINIA	0	NA

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

Represent



Critique

I like this data visualization about how it uses the windmill to represent the wind power and the bigger and darker windmill represent the more wind power. However, it is hard to read the number that show the exact the installed capacity like at the end of the graph the number becomes so small and the windmill also tiny which is hard to see. I will use informative visualization which make the visualization interactive. I will choose map to represent. The overview is the whole US map, and we can zoom in to see the detail of each top ten states.

NEW: Based on your knowledge of the Periodic Table of Visualization Methods (discussed in class this week), discuss which one of the 6 categories does the visualization you provided in the Represent stage falls in. Identify the method most closely related to the visualization in the Represent Stage and discuss the characteristics: overview, detail, detail AND overview, divergent thinking, convergent thinking. Refer to Week 10 Readings to assist with categorizing the visualization.

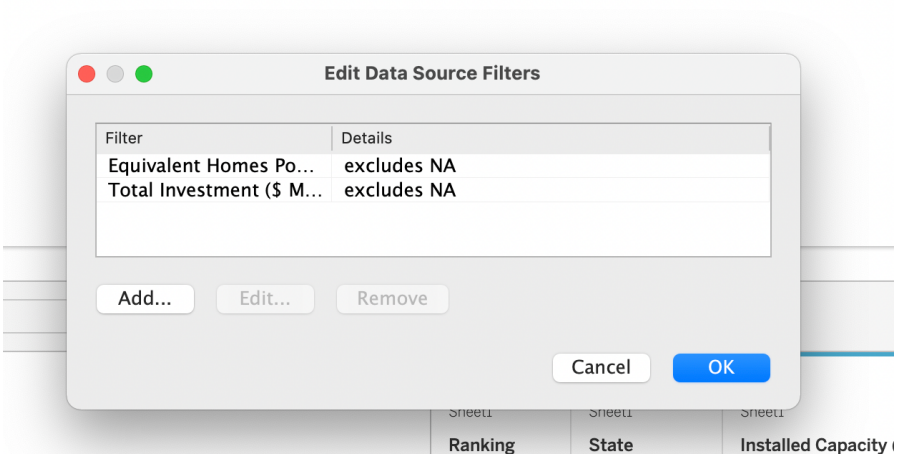
Mine

What is the top 10 wind power in United States and their equivalent home power

Filter

Show (display, list, make it visible) the filtered data.

I exclude the null data and filter the top 10 wind power states



Stakeholders

- Who is your audience? What assumptions did you make? What visualization tool/software did you use?
  The people who want to decide where to implement the wind power equipment.
  The wind power is the power that generate by wind
  Tableau

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!

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<u>Refine</u> (Makeover – Landscape view)

Use an additional page if necessary. 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).

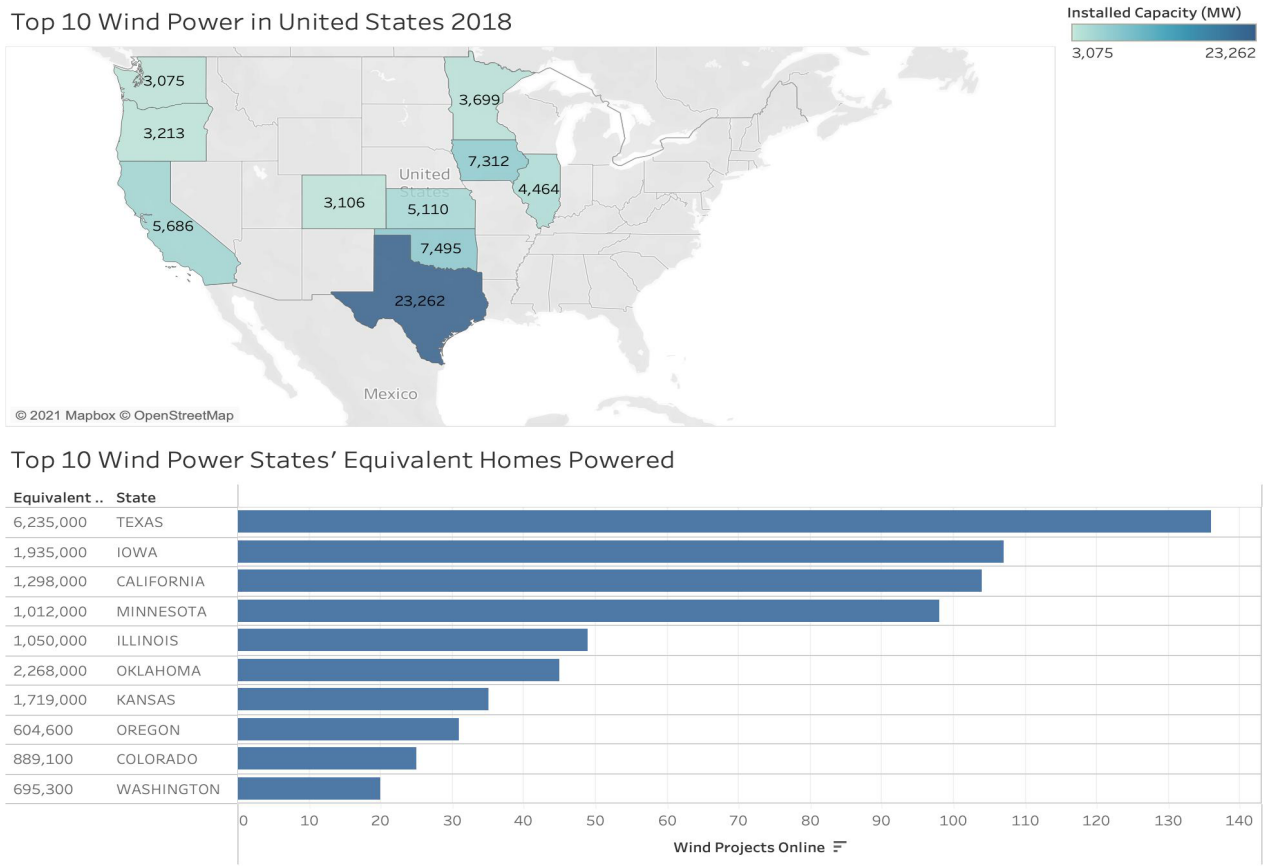

Figure Caption. <A dashboard. 1. A map that shows the top 10 wind power states. Labeled value and Darker color represent the higher wind power. 2. A bar chart that shows the top 10 wind power states' equivalent home power. The longer length represent the larger power>.

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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 (21-25 pts)	**Good (10-20 pts)**	**Fair (5 – 9 pts)**	**Needs Improvement (0 – 4 pts)**
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.