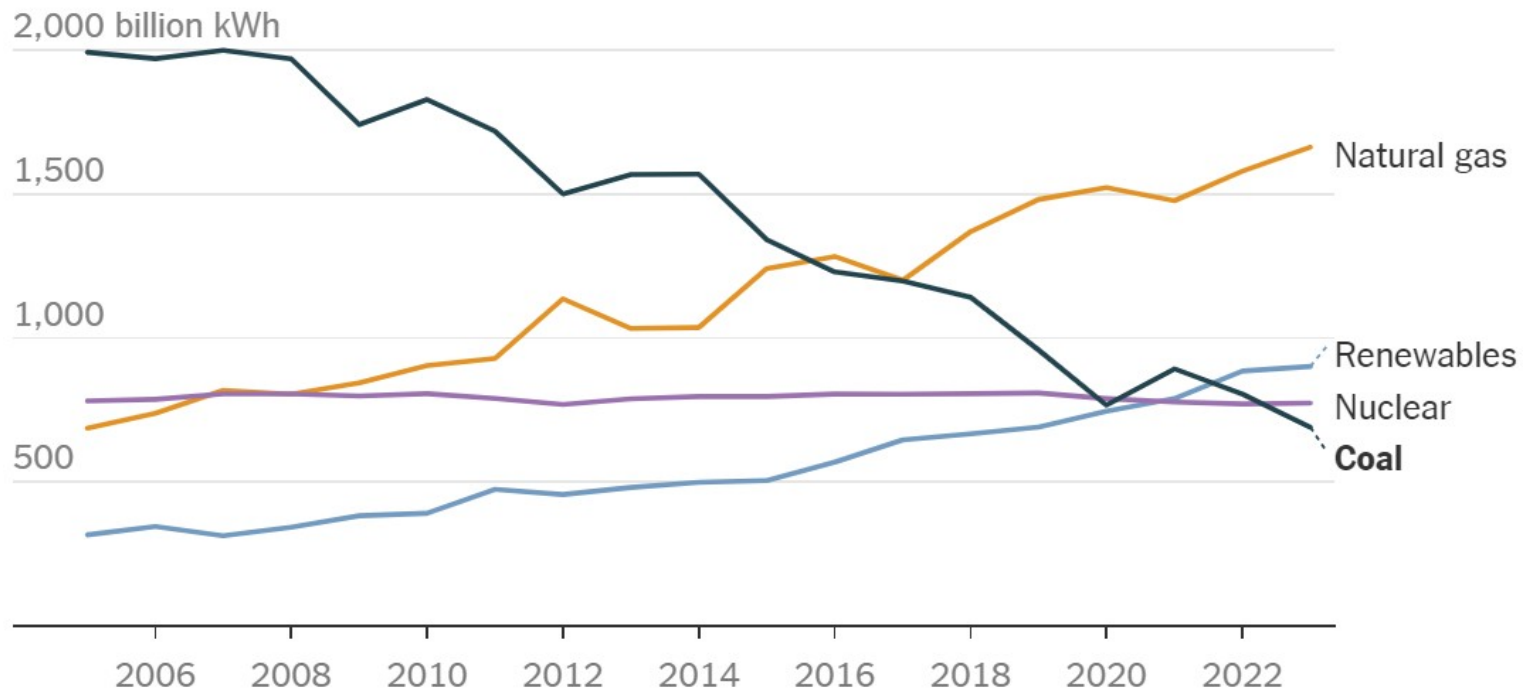


Observations

- **Our survey expressed a desire to study sustainability.**
- **Students are closest to their own home and yard.**
- **People are persuaded by graphs and statistics.**
- **Algebra students are learning about spreadsheets.**
- **Language Arts students are writing persuasively.**
- **The 9th grade has to produce an integrated project.**
- **We could use a break from abstract mathematics.**

Renewable Energy

U.S. electricity generation by source



Note: Renewables include wind, solar, hydropower, geothermal and biomass. • Source: Rhodium Group • By The New York Times

Assuming intermediate efficiency, solar photovoltaic (PV) modules covering 0.6% of U.S. land area could meet national electricity demand.

- U.S. DOE (2012) SunShot Vision Study

Project

S **T** **E** **M**er Homes
& Gardens®

Driving Question

**How can we create
information from data
to make an argument
for sustainable practices
in our homes and yards?**

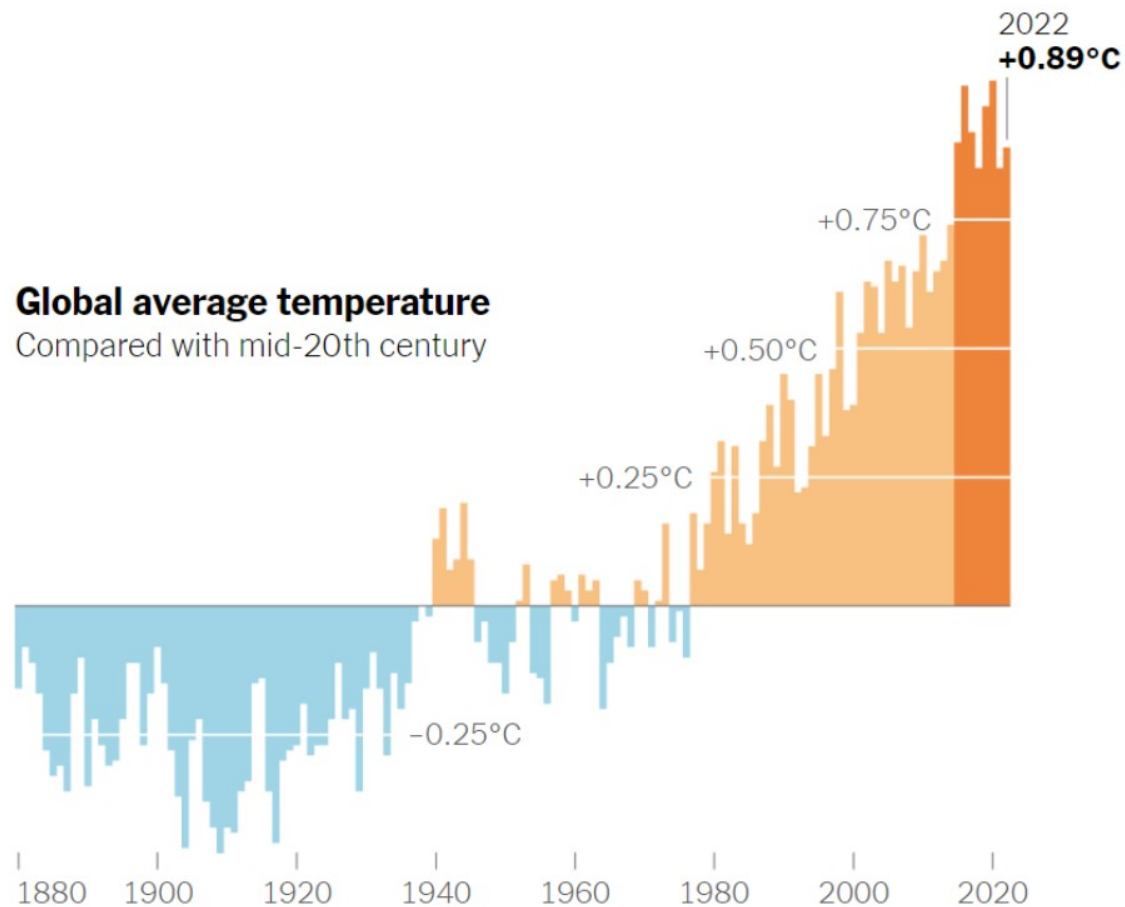
Products

- **Microsoft Excel spreadsheet**
 - **table(s) of data**
 - **calculations of statistical measures**
 - **mean, median, mode, range, standard deviation**
 - **graphs (2) created from data**
- **statistics (3) created from the data**
- **explanation of data sources and methods**

Non-Negotiables

- **Spreadsheet must be student created**
- **Data relates to homes or yards in the local area**
- **Table(s) must have at least 30 values**
- **Sources must be personal or verifiable**
- **Graphs and statistics support sustainability**

Questions?



Source: NASA Goddard Institute for Space Studies