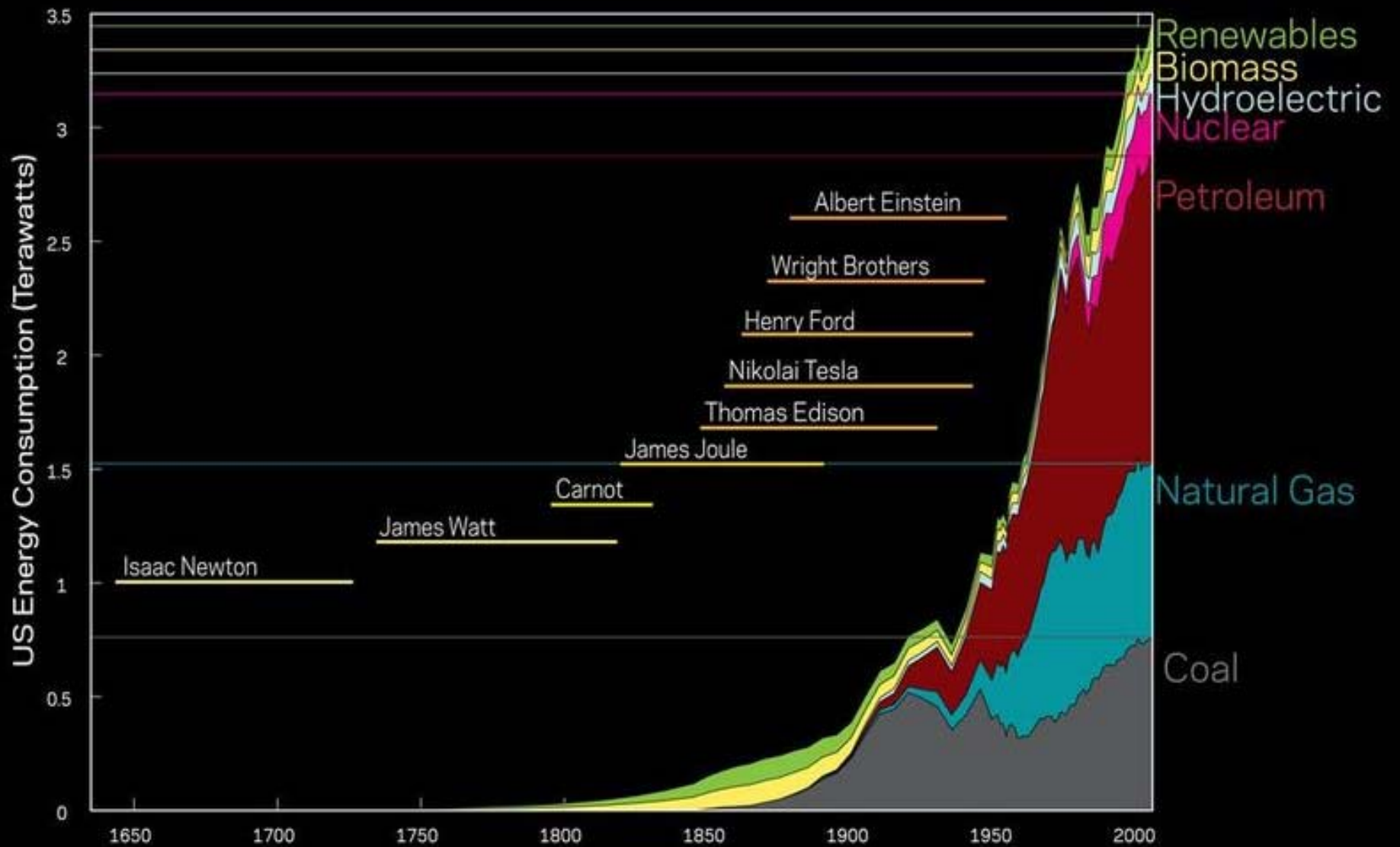
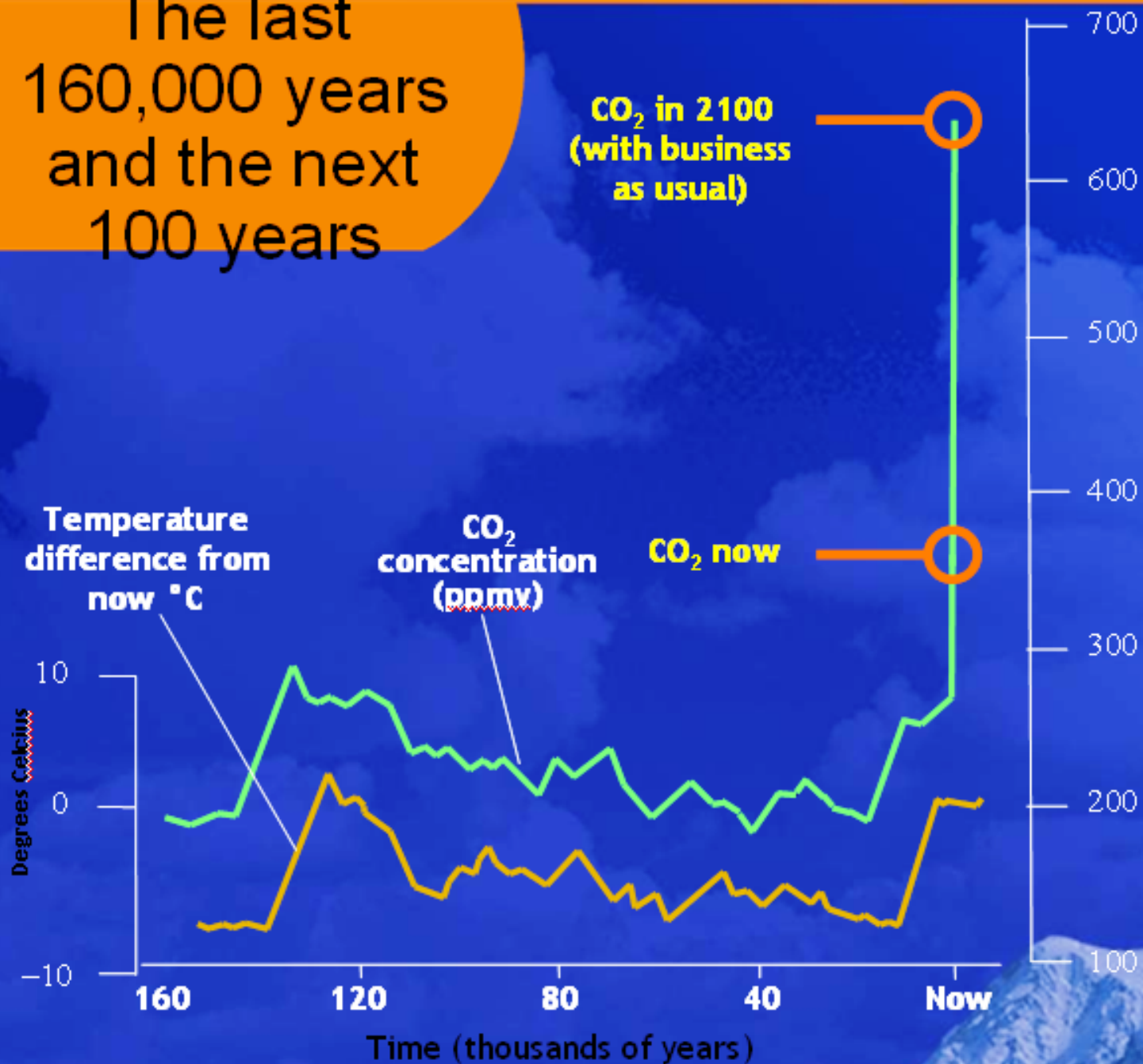


US Population Graph - 1790 to 2000.svg (SVG file, nominally 1,070 x 750 pixels, file size: 6 KB)



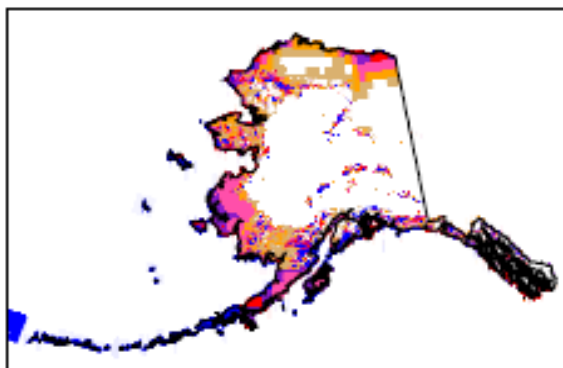
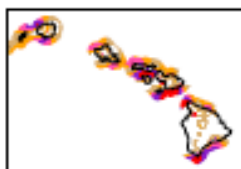
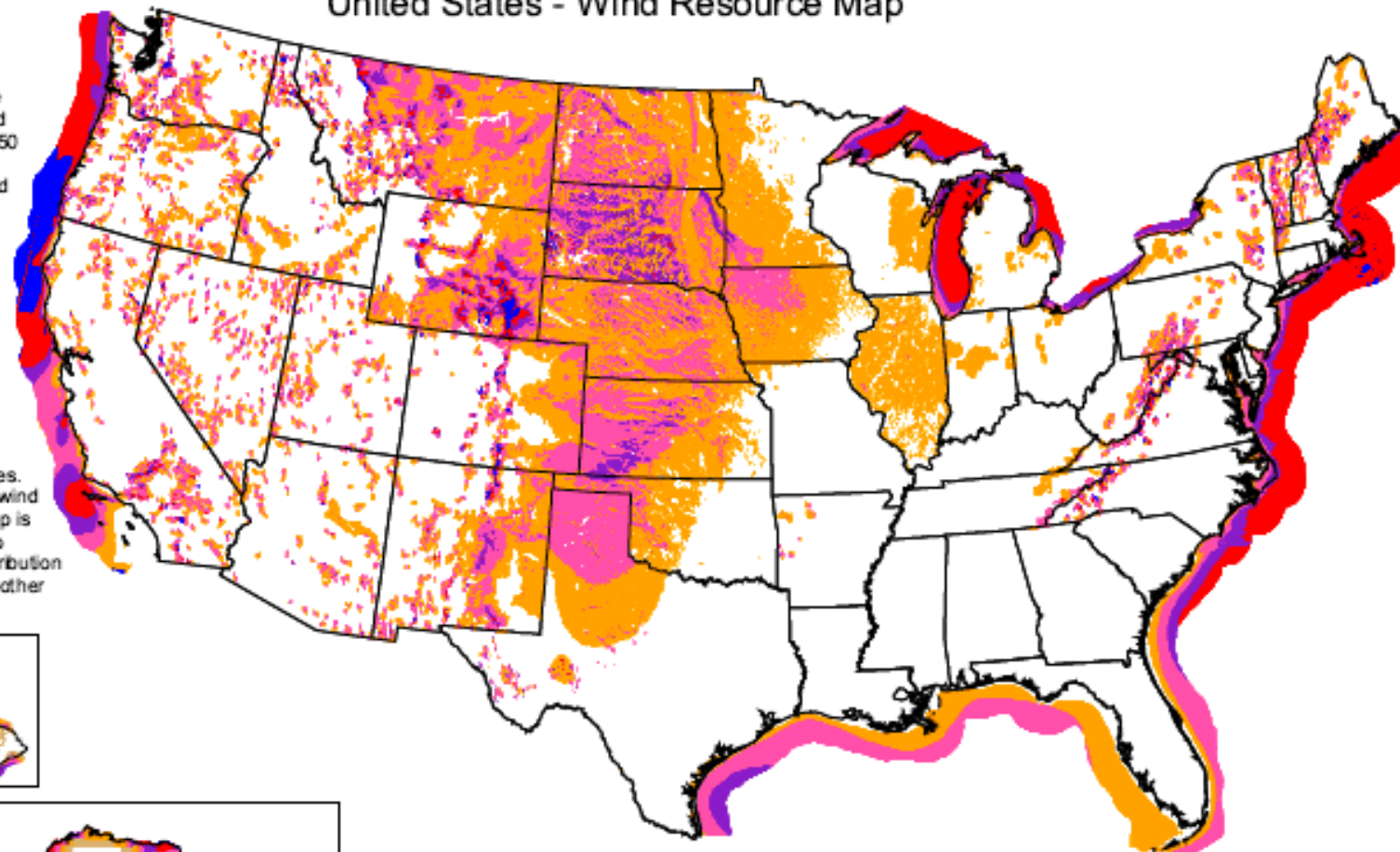
# The last 160,000 years and the next 100 years



Source:  
Global Change  
Research Program

## United States - Wind Resource Map

This map shows the annual average wind power estimates at 50 meters above the surface of the United States. It is a combination of high resolution and low resolution datasets produced by NREL and other organizations. The data was screened to eliminate areas unlikely to be developed onshore due to land use or environmental issues. In many states, the wind resource on this map is visually enhanced to better show the distribution on ridge crests and other features.



### Wind Power Classification

| Wind Power Class | Resource Potential | Wind Power Density at 50 m<br>$W_{m^2}$ | Wind Speed <sup>a</sup> at 50 m<br>m/s | Wind Speed <sup>a</sup> at 50 m<br>mph |
|------------------|--------------------|---|--|--|
| 3                | Fair               | 300 - 400                               | 6.4 - 7.0                              | 14.3 - 15.7                            |
| 4                | Good               | 400 - 500                               | 7.0 - 7.5                              | 15.7 - 16.8                            |
| 5                | Excellent          | 500 - 600                               | 7.5 - 8.0                              | 16.8 - 17.9                            |
| 6                | Outstanding        | 600 - 800                               | 8.0 - 8.8                              | 17.9 - 19.7                            |
| 7                | Superb             | 800 - 1600                              | 8.8 - 11.1                             | 19.7 - 24.8                            |

<sup>a</sup> Wind speeds are based on a Weibull k value of 2.0



U.S. Department of Energy  
National Renewable Energy Laboratory

