



# New York City Wind Power

Not in My Backyard.

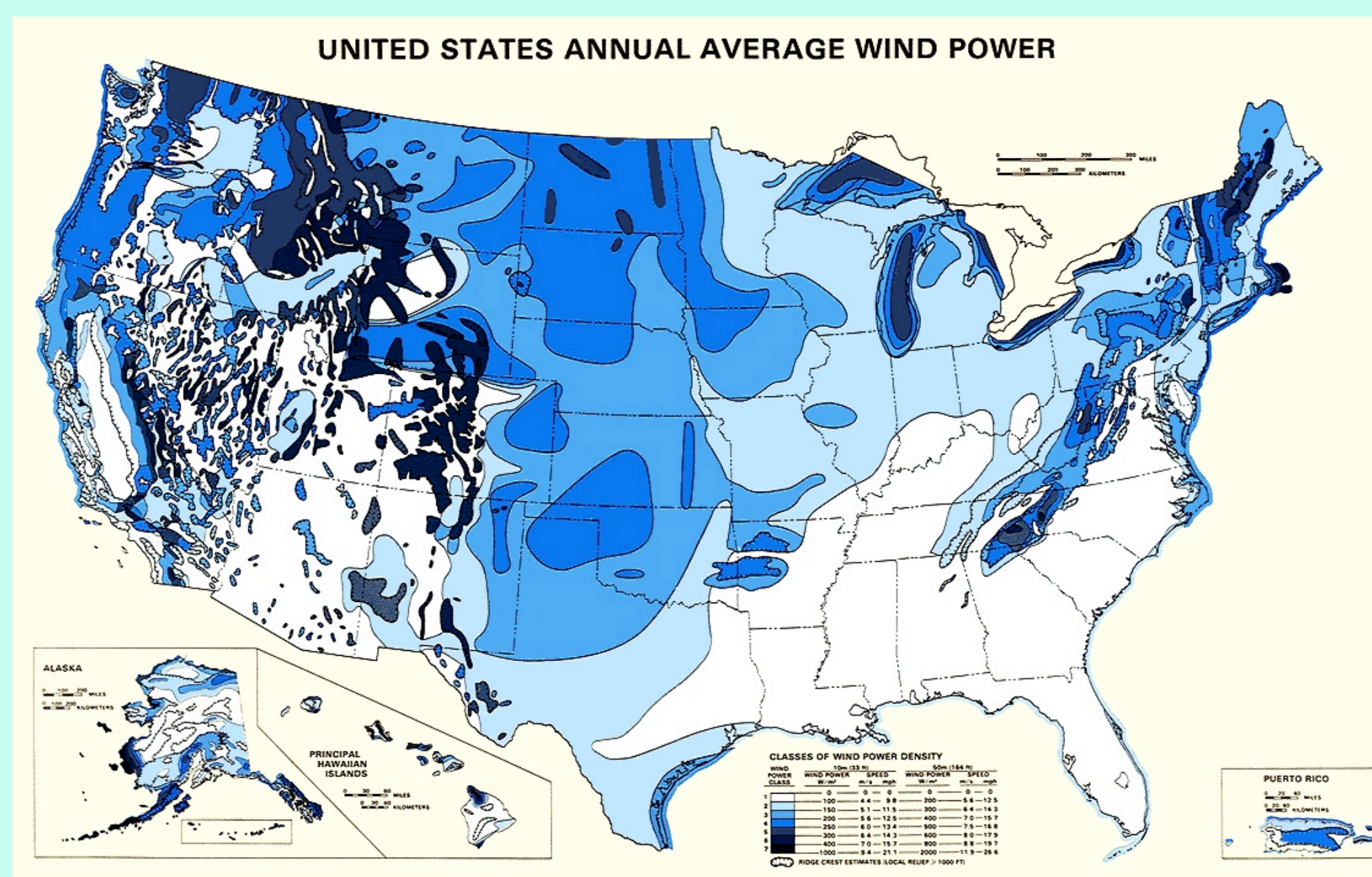
Patricia Lavelle, Emily Paolillo, and Amy Ryan.  
MCHC 3  
Professor Tomkiewicz  
Laurel Mei Turbin, ITF



## Renewable Energy in NYC

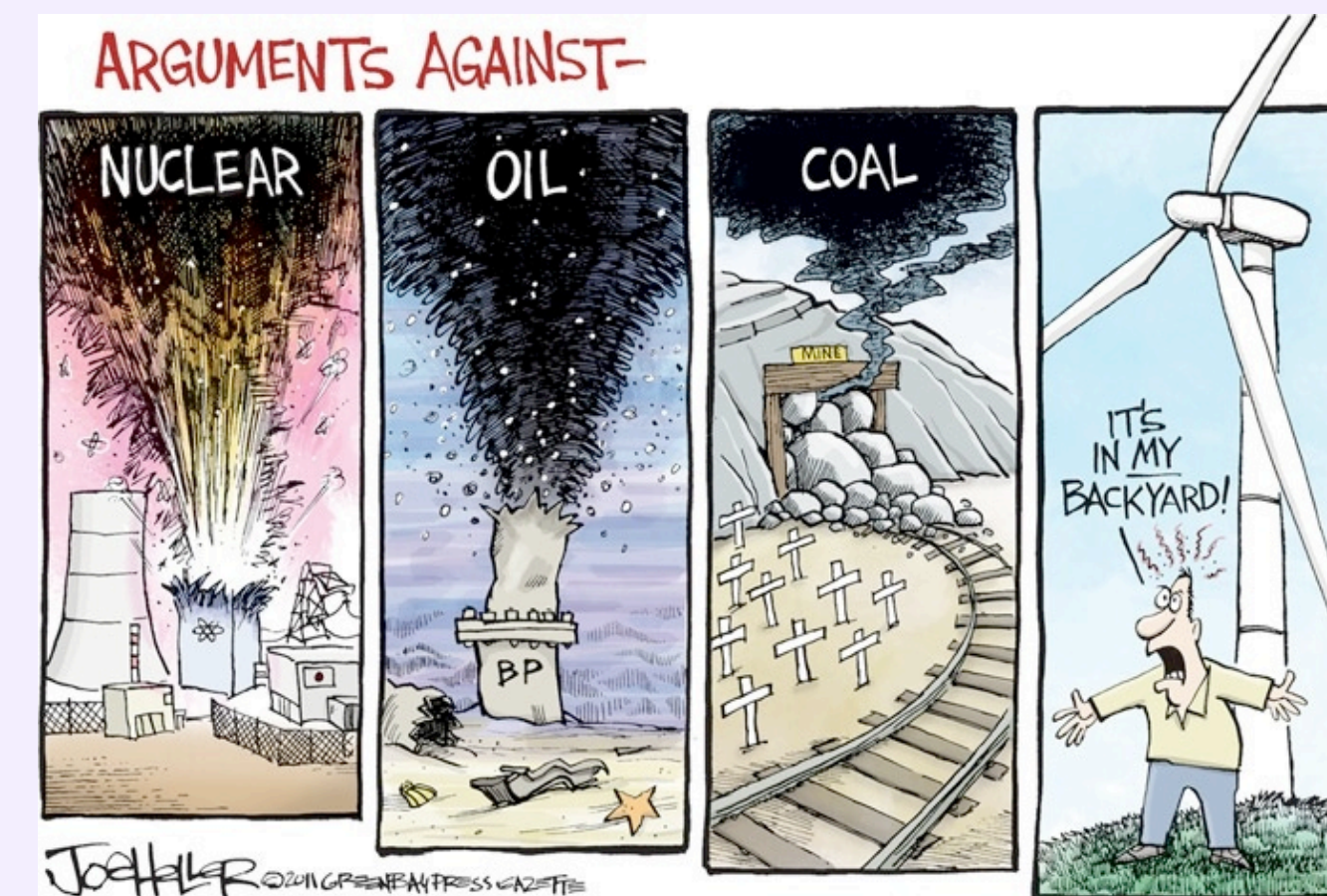
There are obvious benefits of bringing wind powered energy sources to NYC :

- 1. Decrease emission of GHGs**  
Protect the environment for future generations.
- 2. Decrease dependance on fossil fuels**  
Most fossil fuel is from foreign countries.
- 3. Job creation**  
Both short and long term jobs will be necessary for building and maintaining renewable energy sources.
- 4. NYC is a prime location for wind turbines**



## NIMBY: Not In My Backyard!

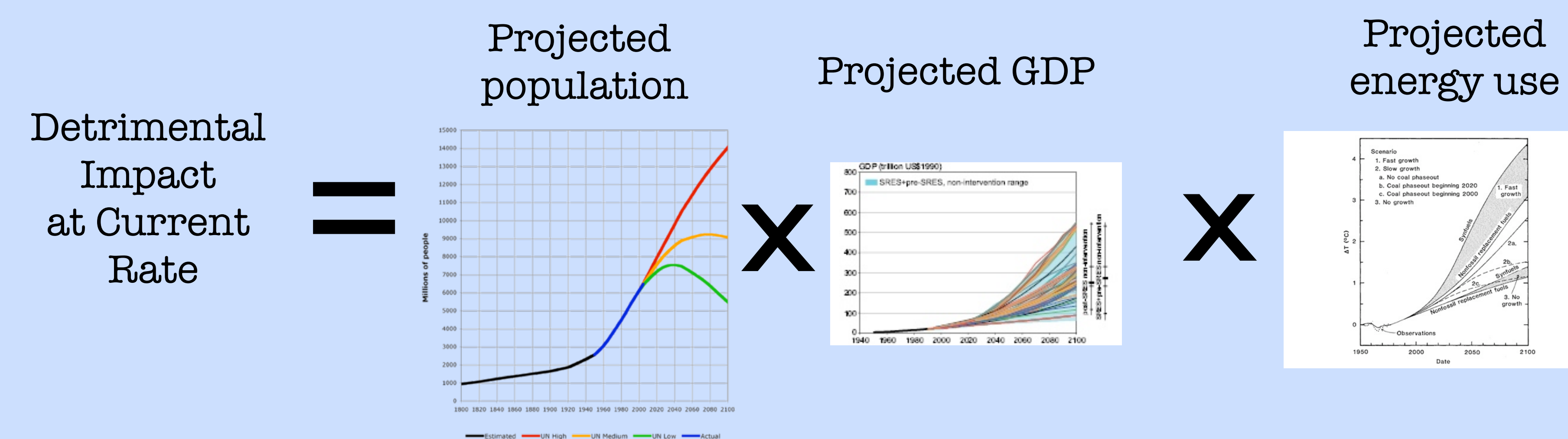
Most people support going green...



...accept when it comes to making sacrifices.

## Looking Forward

Environmental Impact = Population x Affluence x Technology



Changes must be made to preserve our environment.

## Fresh Kills Wind Farm

**Proposal :** Convert the former Fresh Kills Landfill on State Island into a source of renewable energy by building a wind farm on the land.

**Conflicts :** Many community members believe the common misconceptions regarding wind power, even though they are aware of renewable energies benefits.

**Resolution :** Despite the communities best efforts, a renewable energy source will be put on the site. To compromise, though, NYC Parks Department will be hosting the 2012 Land Art Generator initiative in hopes of building an aesthetically pleasing, possibly quiet, source of renewable energy on the Island.



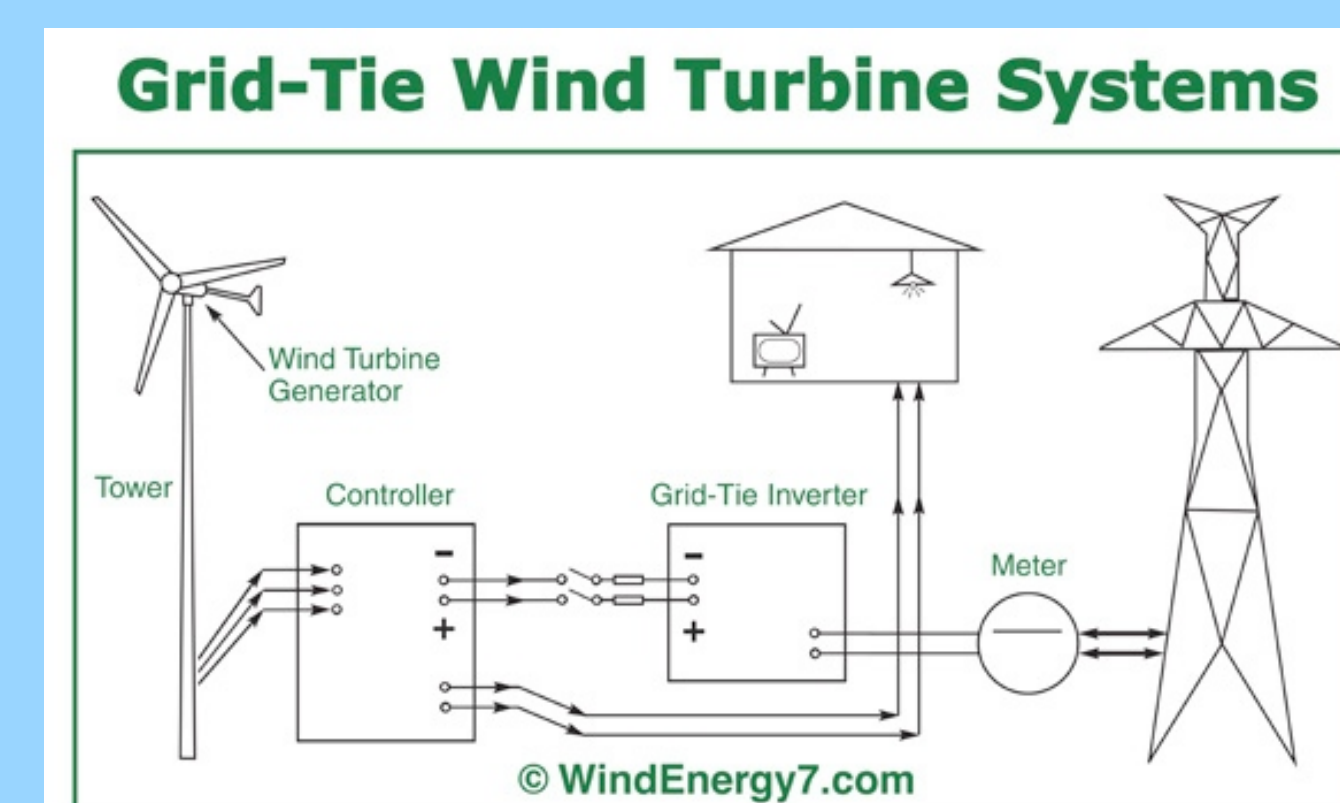
## Two Common Misconceptions About Wind Turbines

### 1. Too Loud

Source	Noise Level
Threshold of Hearing	0 dB
Rural night background	20-40 dB
Quiet bedroom	35 dB
Wind Turbine @350m	35-45 dB
Truck @30 mph @100m	65 dB
Threshold of pain	145 dB

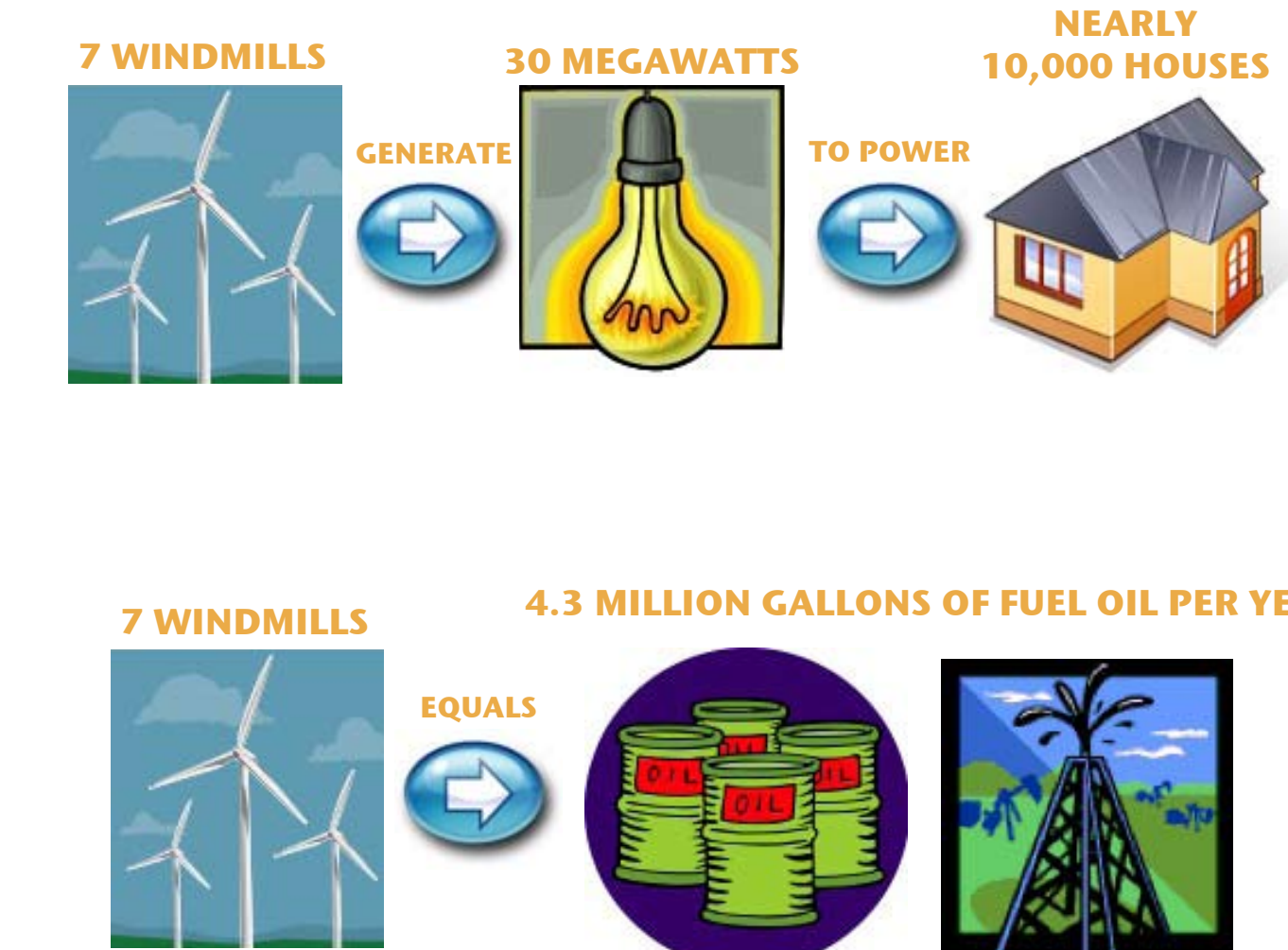
"Ninety-eight percent of the noise levels of public spaces in NYC exceeded recommended community noise levels [70 dB]. Even oases of quiet had high noise levels."  
-NY Academy of Medicine

### 2. Unreliable Source of Energy



Because of new technology, kinetic energy produced during peak windy periods can be stored in grids, in various forms of energy, to use during less windy periods.

## DID YOU KNOW...



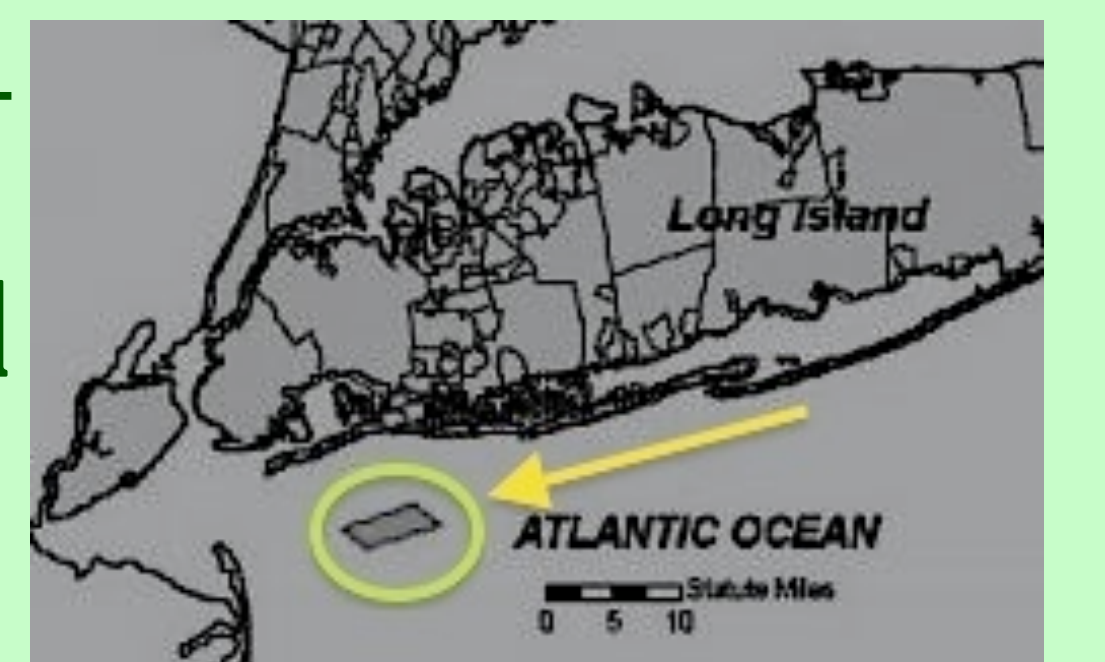
Despite NIMBY opposition, Both Mayor Bloomberg and President Obama hope to see NY and [the rest of America] using up 80% renewable energy by the year 2030.



## Far Rockaway Wind Farm

**Proposal :** Build a wind farm fifteen miles off the coast of Far Rockaway.

**Conflicts :** Community board members voted against building the wind turbines. Even though the farm would be in the Atlantic Ocean the transmission lines and grid would be on the land. Citizens of Far Rockaway would be the main party in funding the cost of building and maintaining the wind farm through taxation.



**Resolution :** The progress of this project has been delayed since first proposed in 2008. Despite green energy support, the City of New York has not been able to find a way to compromise and, as of now, the wind farm will not be implemented in the near future.