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# Climate Solutions: Wind Energy

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# The Solution

- Utilizing wind energy
- Reduces CO<sub>2</sub> emissions
- Provides energy through electricity
- Nordex and General Electric utilize this



<https://ijec.org/wp-content/uploads/2013/07/Wind-Turbines03-1170x820.jpg>



<http://ecolo.org/photos/eole/Eolienne1touteSeule.JPG>

# History

- Originally from Persia and Egypt
  - Used for irrigation + transportation
- Idea traveled and changed
  - Used in western Europe to grind grains
- Used in America on Ranches
- In 1970's, alternative energy was encouraged



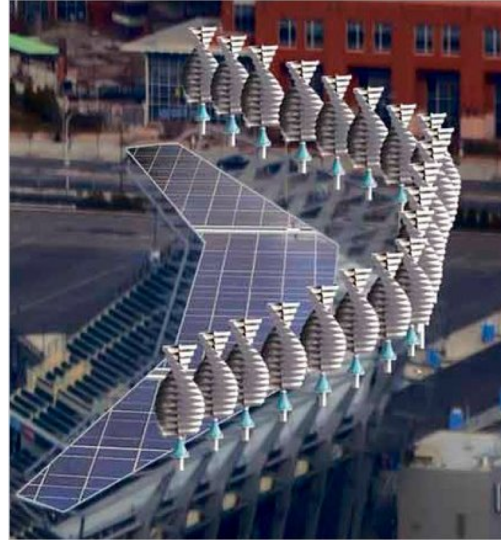
[https://www.touropia.com/gfx/b/2010/06/windmills\\_of\\_la\\_mancha.jpg](https://www.touropia.com/gfx/b/2010/06/windmills_of_la_mancha.jpg)



<http://www.rockridgewindmills.com/wp/wp-content/uploads/Windmill-800x600.jpg>

# Work to be Done

- Wind Turbines, generators
- Obstacles:
  - Cost
  - Location
  - Noise Pollution
  - Damaging Environment
- Solutions:
  - More affordable
  - Innovate their design



<https://static01.nyt.com/images/2010/11/18/sports/STADIUM2/STADIUM2-popup.jpg>



<https://www.business electricity prices.org.uk/wp-content/uploads/2018/04/wind-turbines.jpg>

# Impact

- Cons
  - Costs:\$1.3-\$2.2 million dollars
  - Less land
  - More noise
  - Birds' flight disturbed
- Pros:
  - Reduces CO<sub>2</sub>
  - Clean source of energy
  - Creates Jobs
  - Cost effective over time



[https://media3.s-nbcnews.com/j/newscms/2018\\_16/2400471/180416-wind-turbines-starling-murmuration-se-1157a\\_100245e810b879102b572f212aa0047a.ft-760w.jpg](https://media3.s-nbcnews.com/j/newscms/2018_16/2400471/180416-wind-turbines-starling-murmuration-se-1157a_100245e810b879102b572f212aa0047a.ft-760w.jpg)

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