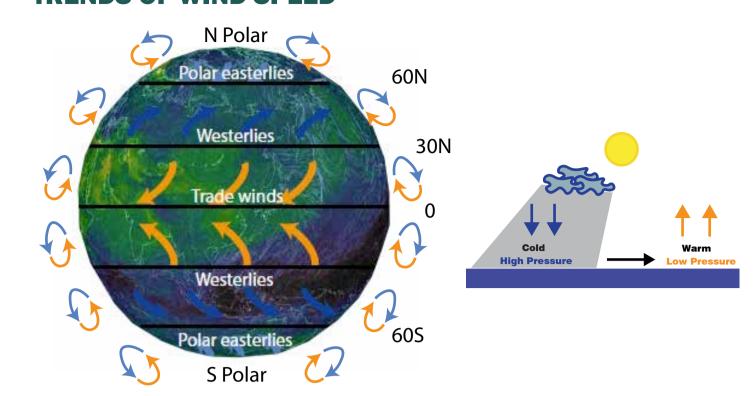
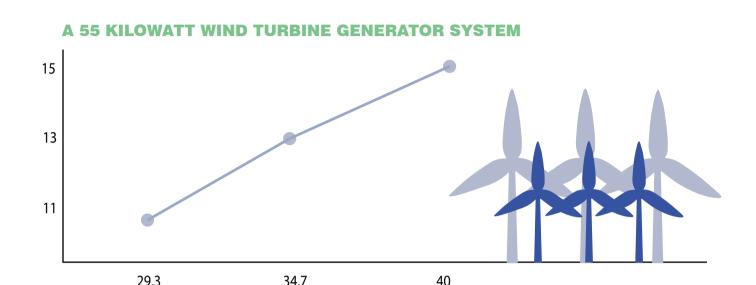
# Energy Land

# **TRENDS OF WIND SPEED**

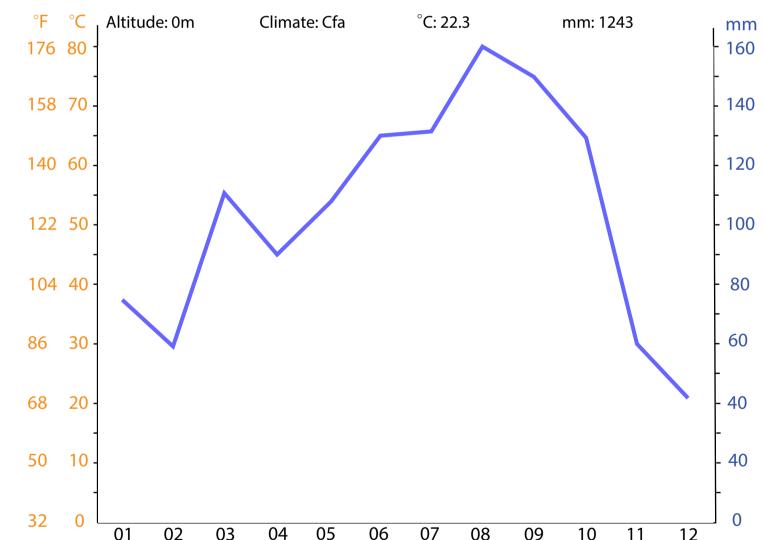




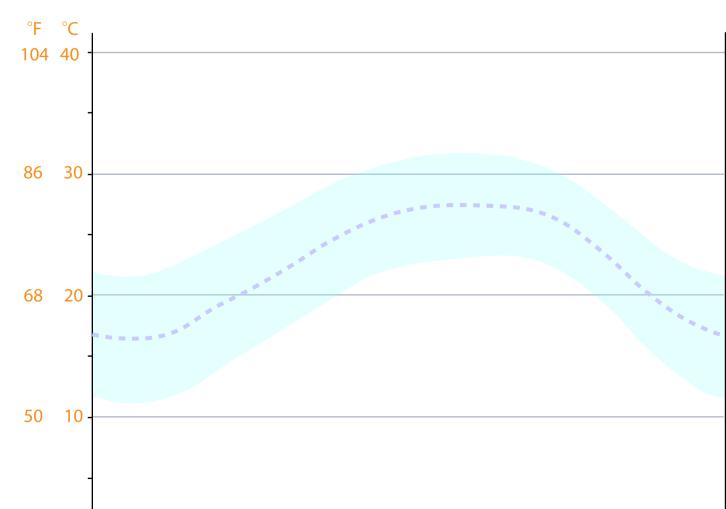
Increased wind speeds allow the city to access greater economic benefits when the wind speed is 15MPH, the output power of the system is 40 kilowatts, when the wind speed is 13MPH, the output power of the system is 34.7 kilowatts, when the wind speed is 11MPH, the output power of the system is 29.3 kilowatts.

# **SOLAR ANALYSIS**

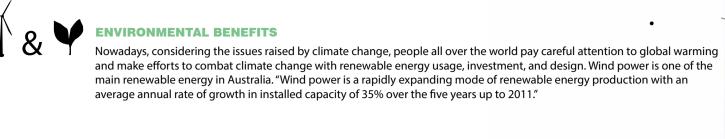
## **CLIMATE DATA**



## **TEMPERATURE CURVE**



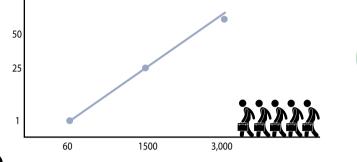
## **BENEFITS OF WIND ENERGY**





"One of the largest sources of new manufacturing jobs worldwide during the 21st century.

Every megawatt of installed wind capacity creates about 60 person-years of employment and 15-19 jobs, directly and indirectly. A typical 50-MW wind farm, therefore, creates some 3,000 person-years of employment."









"Although leasing arrangements can vary widely, a reasonable estimate for income to a landowner from a single utility-scale turbine is about \$2,000 a year. For a 250-acre farm, with income from wind at about \$55 an acre, the annual income from a wind lease would be \$14,000, with no more than 2-3 acres removed from production. Farmers can grow crops or raise cattle next to the towers. Wind farms may extend over a large geographical area, but their actual "footprint" covers only a very small portion of the land, making wind development an ideal way for farmers to earn additional income. In West Texas, for example, farmers are welcoming the opportunity to host wind farms with lease payments."









http://canwea.ca/wind-facts/local-benefits/

http://www.culturechange.org/wind.htm

Office of Energy Efficiency and Renewable Energy (2010-02-04). "Installed Wind Capacity by State". United States Department of Energy. Retrieved 2010-03-12. https://earth.nullschool.net/#current/wind/surface/level/stereographic

