



SOUTHWEST
WIND
ENERGY

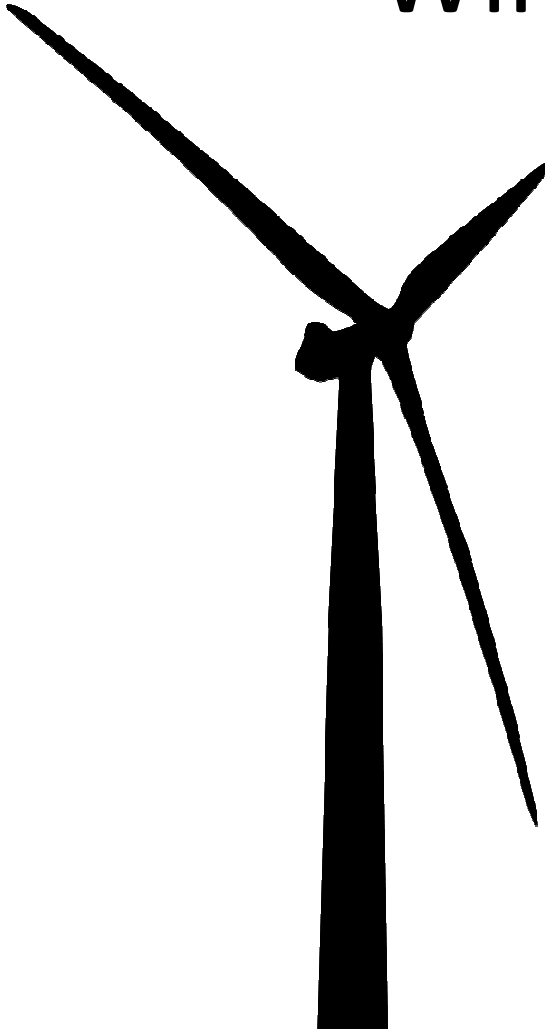
Wind Energy Challenge



More than _____MW of wind energy capacity is now estimated to be in operation around the world.

- a)36 000
- b)18,000
- c)24,000

Wind Energy Challenge



The energy that may be produced by a wind turbine will increase by about _____% for each 10% increase in wind speed.

- a) 20
- b) 30
- c) 15

Wind Energy Challenge

The wind speed at which rated power is reached is called the _____ of the turbine, and is usually a strong wind of about 15 m/s.

- a) Maximum capacity
- b) Rated wind speed
- c) Optimum speed



Wind Energy Challenge



The four main components of a turbine are:

- a) The tower, foundation, control system and blades
- b) Nacelle, blades, rotor and gearbox
- c) Gearbox, control system, harness and tower

Wind Energy Challenge

The two ways that wind generated power can be used are:

- a) Grid tied and off grid
- b) Battery cells and isolated grid
- c) Wind farms and independent producers



My Wind Energy History

- My story
- Community sustainability



Hazlet Turbine Project



- RiNC Grant

-Project Lean and Green

-Research

-New vs. Re-Furbished

-Installation

-How's it going?

Southwest Wind Energy



- Elevated cost of equipment
- Ensuring affordability
- Aeolos Turbines



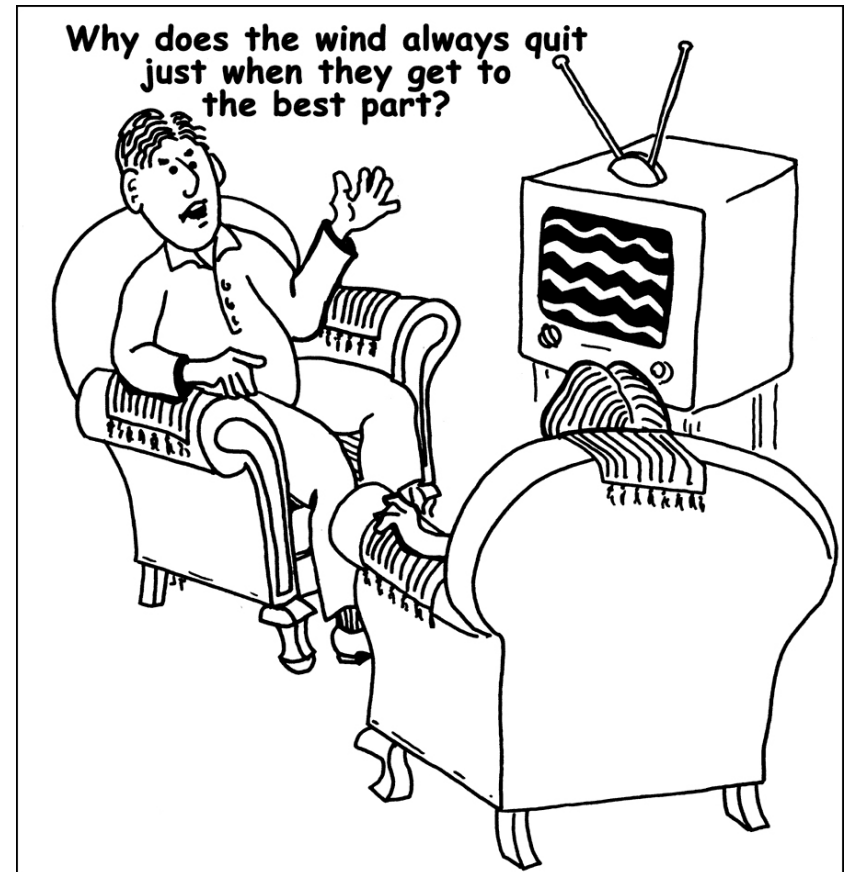
Why Wind?

Advantages of Wind Energy

- Wind energy is friendly to the surrounding environment
- Wind turbines take up less space than the average power station.
- Newer technologies are making the extraction of wind energy much more efficient.
- Wind energy can be produced on-site negating the need for long power lines.

- Disadvantages of Wind Energy

- The wind is a natural phenomena and it can be unreliable.
- Turbines generally produce less power than a typical power station



Financial Feasibility

- Net Metering
- Turbine Payments or power bill payments?
- Payback period

The Future of Wind Energy in SK

- The government's commitment
- Look to the past

Thank You!!

Questions?

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