



UMOYA
ENERGY
Empowered by Nature

LEARNING MORE ABOUT THE POWER OF WIND!



ABOUT

Umoya Energy Wind Farm, home to **37 wind turbines**, is situated on the West Coast, close to Hopefield.

This was the first wind farm to reach commercial operations in the country as part of the South African Government's Renewable Energy Independent Power Producer Procurement Programme.



What is **wind energy**?

Wind energy is using the power of the wind to create energy.

What can wind energy **be used for**?

Energy from wind can be used to power a pump for water like on many farms in South Africa or to create electricity by using a wind turbine.



Clean, renewable electricity generated per year
176 600 MWh



Umoya Energy Wind Farm upgraded over **115 Homes**



Umoya Energy Wind Farm powers **49 000 homes**



Benefiting **Communities**

The wind farm not only generates much-needed green energy, it also benefits local communities in the surrounding areas, through its many developmental programmes. The **Umoya Energy's Home Improvement Project** has upgraded community homes since 2013 – improving electrics and plumbing as well as installing new ceilings. These upgrades have not only bettered the lives of their residents, but have created more energy efficient homes.



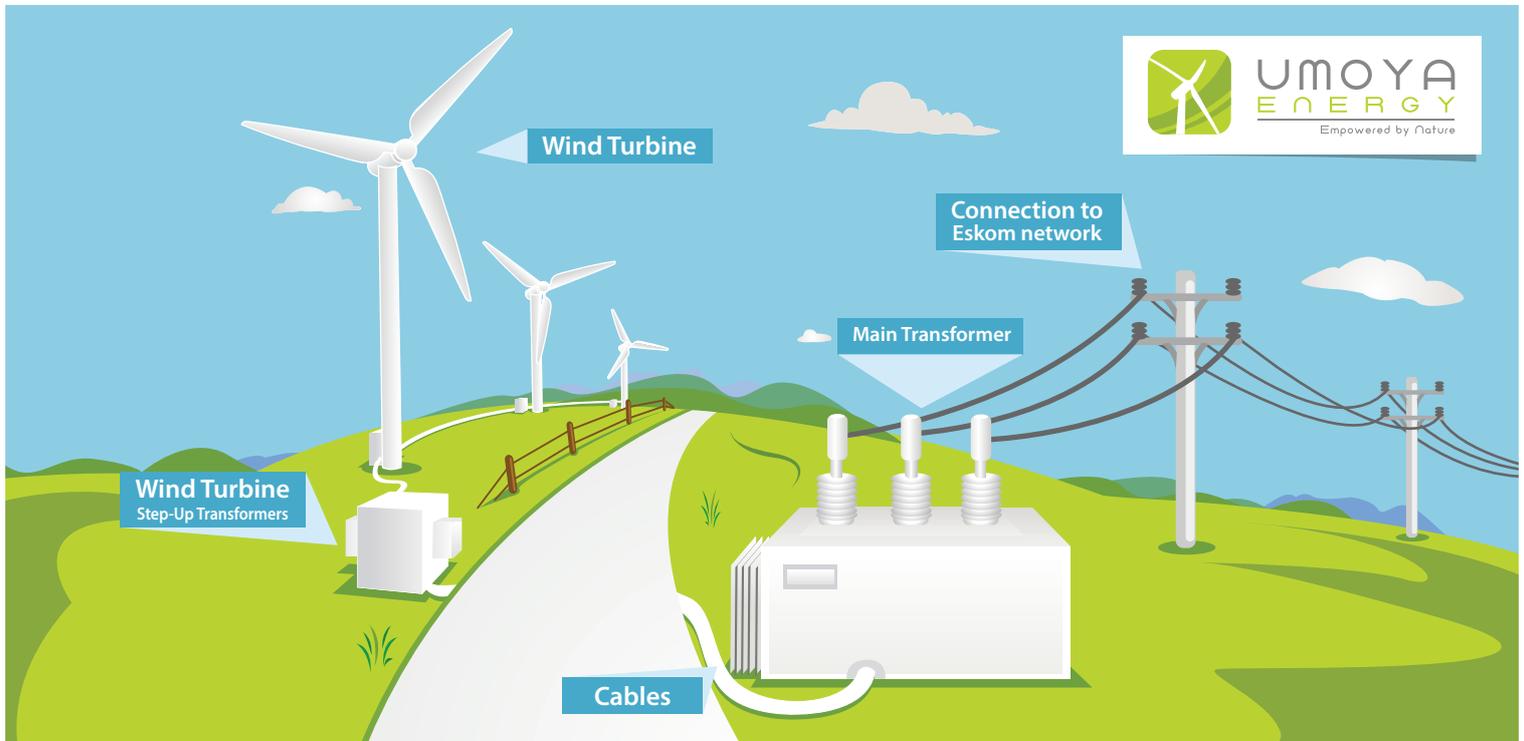
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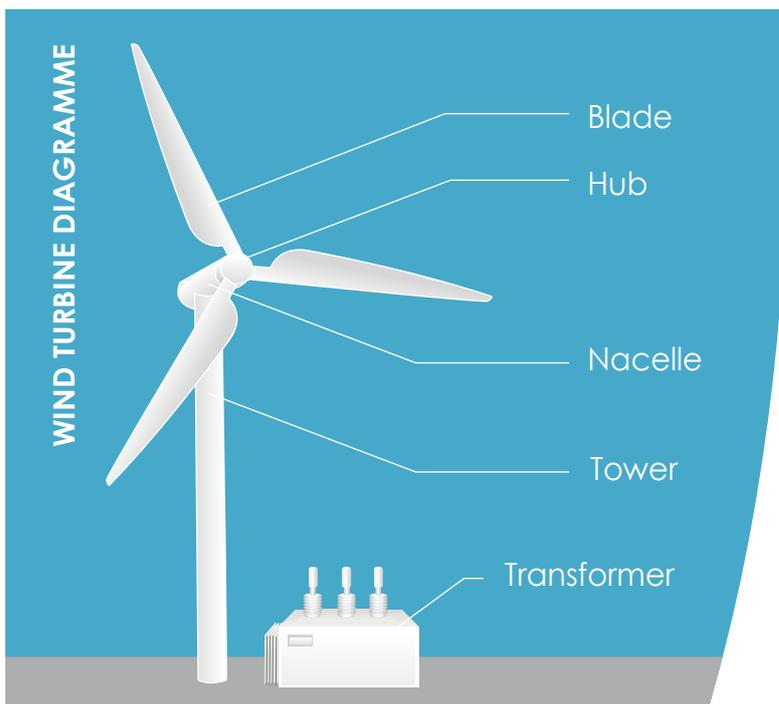
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How Wind Turbines transform **free wind into electricity**:

Ever wondered how a wind turbine transforms free wind into clean electricity that can power our homes? Simply put, **Wind is moving air**. Although you can't see the wind itself, you can see how its force affects things in its path: leaves, grass, flags, laundry on a clothesline - even your hair on a windy day.

- 1 The wind causes the turbine blades to rotate, the bigger the blades the better!
- 2 The rotational energy from this movement is converted into electrical energy in the generator that sits in the nacelle at the top of the tower.
- 3 The electricity is brought from the top of the turbine underground to the substation.
- 4 The substation is connected to the Eskom line which then sends the electricity where it is needed and maybe into your school or home!



Quick **Facts**

- Wind energy is one of the cleanest and safest methods of electricity.
- Wind energy is one of the fastest-growing sources of electricity worldwide.
- Virtually no water is used in the generation of wind energy.
- Wind energy produces no air or water pollution.