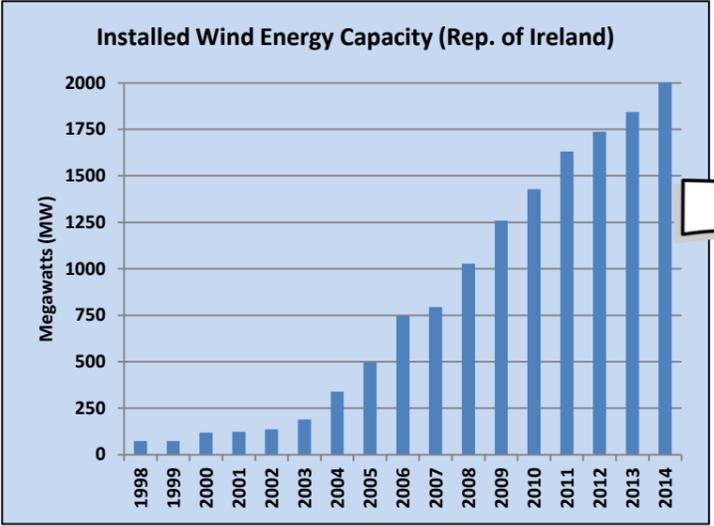


The Green Economy: Wind Energy



210
The number of Wind Farms on the island of Ireland.

Total Island Capacity	2,632 MW
Rep. of Ireland Capacity	2,080 MW
Northern Ireland Capacity	552 MW

Wind Energy Equivalentents

For more info see the IWEA infographic.

The island's capacity of 2,632 MW of Wind Energy is...

COAL

6.9 Mt CO₂

2.36m tonnes Mined Transported Burned

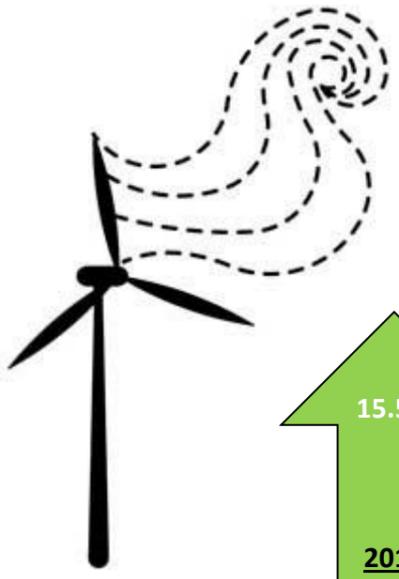
Costing €165 million for fuel

GAS

3.2 Mt CO₂

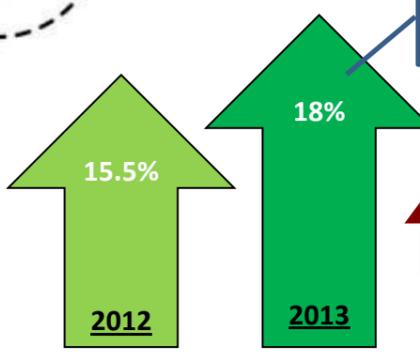
1.33m m³ Mined Transported Burned

Costing €249 million for fuel



Ireland's Electricity from Wind

Electricity is around 20% of final energy use in Ireland. Of this, wind contributed the following in the last 2 years...



1,710,800 homes powered equivalent on the island of Ireland.

Wind Facts

Why Wind???

- Increasing the share of renewables in energy production has many benefits...
- Wind is a free resource... it can be captured efficiently with modern technologies. Click [here](#) to find out how.
- We reduce our dependence on imported fossil fuels and lower our carbon footprint, alleviating global warming.
- Ireland is in an enviable geographic location – staring out at over 3,000km of Atlantic Ocean ensuring a steady supply of wind.
- Amazing wind graphic [here](#).

How Many???

People employed in the Irish Wind Energy Sector

As of 2012 There were... **2,200**

By 2020 There could be... **10,700** IWEA Estimate

What Benefits???

December 17th, 2013, saw a new record for electricity generation from wind **1,769 MW**

Forced gas powered plants offline during soaring gas prices

Resulting in **24% of electricity produced from wind, resulting in a 5% decrease in prices for December**

Renewables have saved Ireland over €1 billion in fossil fuel imports in the last 5 years!

Fun Facts!!!

- The sun's heat produces pressure differences in the atmosphere causing the air to move...forming WIND!
- In the recent storms that hit Ireland, gusts of wind hit 160 km/h in Shannon, Co. Clare.
- "The Night of the Big Wind" January 6th & 7th, 1839, the wind reached 200 Km/h – the highest recorded wind speed in Ireland's history!
- Not quite as fast as the highest recorded wind speed on Earth where speeds have been clocked at 320 km/h in Antarctica!

Companies

Airsynergy "Energy for Life"

Groundbreaking shrouded design wind turbine technology!

Airsynergy are an example of the birth of the Green Economy, right here in Ireland, today.

Two brothers noticed a niche in the renewables industry, and by adding in Irish innovation, they've created a product with huge potential.

Government needs to take a leading role in financing Green entrepreneurs – creating jobs and putting Irish ingenuity to work.



Said to be the first commercially available turbine to augment wind at both low and high wind speeds.

C&F Green Energy

C&F Green Energy are an arm of the Irish owned C&F Group located in Galway, who are conducting ground-breaking research into how we power the society of the future, here in Ireland.

Facing up to climate change will require the technical resources and financial strength of MNCs. With over 1,800 employees worldwide, and an impressive clientele, C&F are the type of company which will build and export the Irish Green Economy.

Currently focused on designing an innovative wind turbine which would improve performance, C&F are also addressing concerns of aesthetics and reliability. Attracting companies in this area of research has to be a focus of Greens everywhere. With Europe's best wind resources, Ireland can be a world leader in wind power research and innovation.

Future

Eirgrid have said to meet the 40% renewables target by 2020, installed wind capacity will need to increase to...

3,500-4,000 MW in Rep. of Ireland

~**1,300 MW** in Northern Ireland