

# History of the development of wind turbines

What is the history of wind power?

Today, modern wind turbines, along with solar photovoltaics, are the principal source of new electricity generating capacity. We briefly trace the development of modern wind turbines from the late 19th century to the present in Europe and North America. Much has been written about the history of wind power in both the academic and popular press.

When did wind turbine design start?

And we show that much of what we know today about wind turbine design was known by the 1930s and certainly well known by the late 1950s. This work is divided into two parts: the first part takes up the development from the first electricity producing wind turbines through to the 1960s and a second part on development from the 1970s onward.

Why were wind turbines invented?

After the Nazis seized power in 1933, they began a systematic program for assuring energy autarky or self-sufficiency. The development of wind turbines became a part--though never a big part--of this program. Some of the great names in automotive and wind turbine design were associated with the effort.

When did wind turbines start generating electricity?

This work is divided into two parts: the first part (Gipe and Millerström, 2022) covers the time from early electricity-generating wind turbines through the 1960s, and the second part covers the time from the 1970s onward. We focus only on the development of onshore wind turbines and we focus only on development in Europe and North America.

When did wind turbines become a viable source of power?

Many remote places like farms in the US did begin to use wind turbines for power in the early part of the 20th Century, but it was still not being considered as a viable method to provide power for towns and cities across the world.

How long has wind been used as an energy source?

Wind has probably been used as an energy source for more than 1500 years. In times when other energy sources were unknown or scarce, wind energy was a very successful energy source for industrial and economic development. Wind energy became a marginal source when inexpensive, easily accessible and abundant energy sources became available.

Wind energy has long been harnessed as a source of power, dating back centuries to the use of windmills for milling grain and pumping water. In recent decades, wind turbine technology has undergone a remarkable ...

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Wind is a growing source of reliable and clean energy around the world and a crucial part of the journey to net zero. But when did people first start to harness the power of the wind? When was the first wind turbine ...

Through history, the use of wind power has waxed and waned, from the use of windmills in centuries past to high tech wind turbines on wind farms today, and nowhere in history is that more evident than in the last century and a half. ...

We review the development of wind turbines for generating electricity from the late 19th century to the present, summarizing some key characteristics. ... Gipe P, M&#246;llerstr&#246;m ...

Overview20th centuryAntiquityEarly Middle AgesLate Middle Ages18th century19th century21st centuryDevelopment in the 20th century might be usefully divided into the periods: o 1900-1973, when widespread use of individual wind generators competed against fossil fuel plants and centrally-generated electricityo 1973-onward, when the oil price crisis spurred investigation of non-petroleum energy sources.

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