

EverPower Renewables

Committed to promoting the utilization and growth of clean and efficient wind energy



everpower™
RENEWABLES

You have the power We help you use it

Welcome

I founded EverPower over six years ago because I believe in the future of renewable energy and in helping to redefine our country's power generation mix. Sustainable energy development is not just a choice – it's a winning choice, a principled choice.

It has been a productive six years, and we continue to grow. Our experience and proven track record in project development are the keys to our success. Currently, we are pursuing more than fifteen projects across nearly a dozen states. Many of our partners in these projects are landowners with whom we are pursuing multiple development opportunities.

In addition, we have adopted a hands-on, up front and accessible development approach which has allowed us to successfully develop projects situated in areas with more local landowner participation. This flexibility allows us to achieve a diverse development portfolio that offers additional economies of scale and development efficiency.

I hope this introduction will help you to learn a bit more about what we do and how we do it. Welcome to wind energy.
Welcome to EverPower.



James Spencer
Founder and Managing Director
EverPower Renewables



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Wind Energy and Our Future

“Our present system of energy is weakening our national security, hurting our pocketbooks, violating our common values and threatening our children’s future.”

New York Senator Hillary Clinton

“Global warming threatens our health, our economy, our natural resources, and our children’s future. It is clear we must act.”

New York Governor Eliot Spitzer

“To become energy independent ourselves, Pennsylvania is blazing a new trail by making strategic investments to build a base of alternative energy supplies and infrastructure that can meet the clean energy needs of our residents and our economy.”

Pennsylvania Governor Edward Rendell

“We'll also invest in clean energy sources like wind power and solar power, so that by 2025, America can meet a new standard that will require 25% of all our electricity to come from renewable sources.”

Remarks of Senator Barack Obama: Real Leadership for a Clean Energy Future
Portsmouth, NH | October 8, 2007

Wind Energy

HARVESTING THE FUTURE

Wind power generates electricity with no air emissions, no fossil fuels, no cooling water, no water pollution and no wastes.

WHAT is wind energy?

Wind energy is a renewable resource that powers homes and businesses while reducing carbon emissions, which contribute to global warming. Wind is created because the sun heats the earth unevenly, creating pockets of differential air pressure. Wind is simply the “invisible river” of air flowing from high pressure to low pressure pockets.

Throughout history, wind has been harnessed to power ships, grind grain, pump water and, now more than ever, to create electricity.

HOW does wind energy work?

Modern wind turbines have evolved to efficiently convert the kinetic energy of wind into electric energy. These turbines capture wind in their blades and convert it into energy via a rotor system, which includes a shaft, gearbox and generator system called a drive train. Wind farms with multiple turbines require a sophisticated central computer system so that plant operators can monitor all turbines and optimize performance, safety, and reliability.

Turbines consist of a tower, a nacelle, which encloses the generator and drive train, and the rotors, or blades. Modern wind turbines utilize towers that reach 260 feet high and manufacturers are currently considering towers that will exceed 300 feet. The rotors measure about 150 feet in length.

Wind turbines begin to operate at wind speeds of 7-9 mph and reach their maximum output beginning at 30-35 mph. A sophisticated computer system controls all shut-down and start-up operations for the turbines.

The result is clean electricity that is sent to the power grid, metered and delivered to consumers.

WHY choose wind energy?

Wind energy is the only economically viable and scalable form of renewable energy that offers a practical alternative to traditional, fossil fuel based electric generation technologies:

- Wind Energy is clean and does not pollute the environment;
- Wind Energy is economical and is not subject to volatile fuel markets;
- Wind Energy reduces our dependence on fossil fuels;
- Wind Energy is compatible with a variety of land use classifications and provides a valuable source of tax revenue as well as economic stimulus for the states, counties and localities that host the wind turbines;
- Wind Energy is modular and distributed. Plants can add capacity as demand increases, and be placed at different locations throughout the electric grid. This flexibility helps create a more efficient and more reliable transmissions grid.

WHERE can wind energy plants operate?

Wind energy projects can operate anywhere that there are open spaces, willing landowners, access to transmission facilities, and, most importantly, ample wind. Appropriate locations have sparse population density, few buildings and are in topographic areas such as high hilltops or elevated plateaus. Locations that are either near the shore or offshore are also ideal. Local authorities, landowners and members of the community are involved throughout the process to make sure that all parties understand all aspects of wind power and what it will mean to the area.

WHEN is the right time for wind energy?

Because wind energy is an integral component of our sustainable energy future, its time is now.



How A Wind Turbine Works

The Hub And The Variable Pitch Blades Together Constitute The Rotor. They Spin To Convert Wind To Energy

Blades

Nacelle

The Transmission And Generator Are Located In The Nacelle. This Assembly Converts Wind Energy To Electricity

Hub

Yaw Controller

The Yaw Controller At The Top Of Tower Turns The Entire Upper Assembly To Face In Optimum Direction

Tower

The Tower Is Designed For Most Efficient Height For Local Conditions

