

# Silent wind turbine for home

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Thinking of renewable wind energy typically brings to mind visions of large, industrial-scale wind turbines turning in a field. Commercial wind energy is growing by leaps and bounds, creating clean, renewable energy for millions of people worldwide. There is a smaller, but ready to start growing, field of small-scale wind energy for individual homes and businesses. A Dutch company has created the Archimedes wind turbine that is turning heads in the renewable energy industry.

Wind energy produced on a small-scale level at a home or business has been slower to catch on than larger industrial-scale production for a couple of reasons. First, smaller wind turbines have not created enough electricity to justify their high costs.

Even worse, most small wind turbines create noise as much as they create power; the noise and vibrations made their presence an inconvenience to home and business owners. The noise they created made them difficult to install on structures. The cleanest, freest energy in the world isn't worth it if the thing making it creates enormous amounts of distracting noise.

Archimedes, a Dutch company, has taken steps to eliminate both of these small wind turbine issues. Their product, the Liam F1 turbine, is a small-scale wind turbine designed for residential or commercial use, is nearly silent when in operation and creates power much more efficiently than earlier generations of small wind turbines.

Archimedes says their Liam F1 turbine is capable of generating 1,500 kWh of energy annually at wind speeds of around 11 mph. As with all wind turbines, more power is created with higher wind speeds, less power at lower speeds. With these stated power creation capabilities, the Archimedes Liam F1 turbine would generate enough electricity to cover half of an average home's energy usage. That's not bad!

The Archimedes wind turbine blades take their inspiration from the Nautilus shell. This unique design (which is actually quite elegant to look at) allows the turbine to point into the wind in order to capture the maximum amount of wind energy with a minimum of noise.

The nautilus shaped blades of the Archimedes Liam F1 turbine also allow for better performance by creating the ability to make energy even when the wind is hitting the turbine at an angle. The conical shape of the turbine blades turns the turbine automatically into the best possible wind direction without the need for costly software.

People who choose to invest in residential wind and solar products are usually also taking proactive steps to reduce the overall amount of energy their home needs in the first place. This is an important point: the less energy a home needs, the more effective wind and solar energy become.

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It comprises of three circular blades which are wrapped around one another and then expanded. This creates a three-dimensional conical turbine, similar to elongated shells found on the beach. The special design ensures that wind is drawn into the turbine. The average yield is many times higher compared to a normal urban windmill propeller.

The Liam F1 will be able to generate 1,500 kWh of energy per year and can be installed on the rooftop of a house. The system can also be integrated with a solar power system and battery bank to provide base load power at all times of the day. A Household could practically be off grid with such a hybrid system.

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