

Small Wind Turbines Today



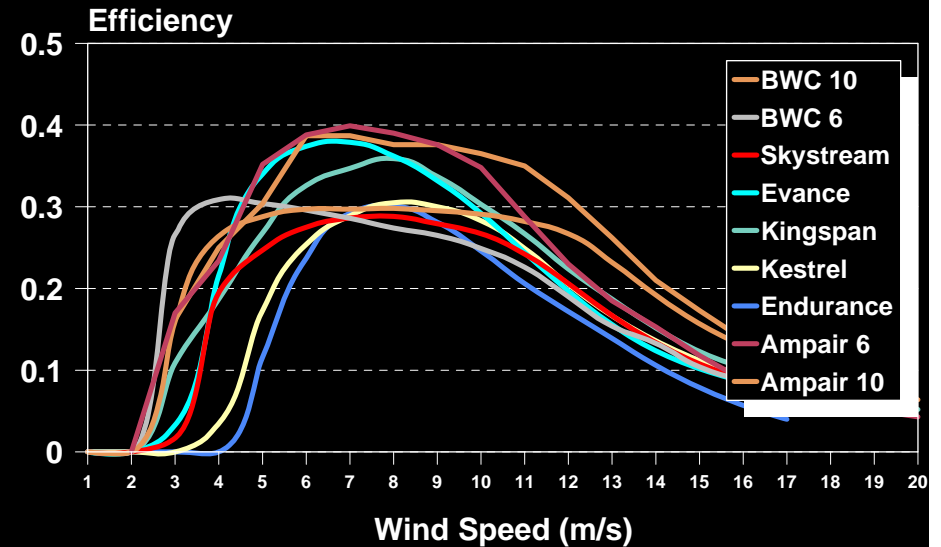
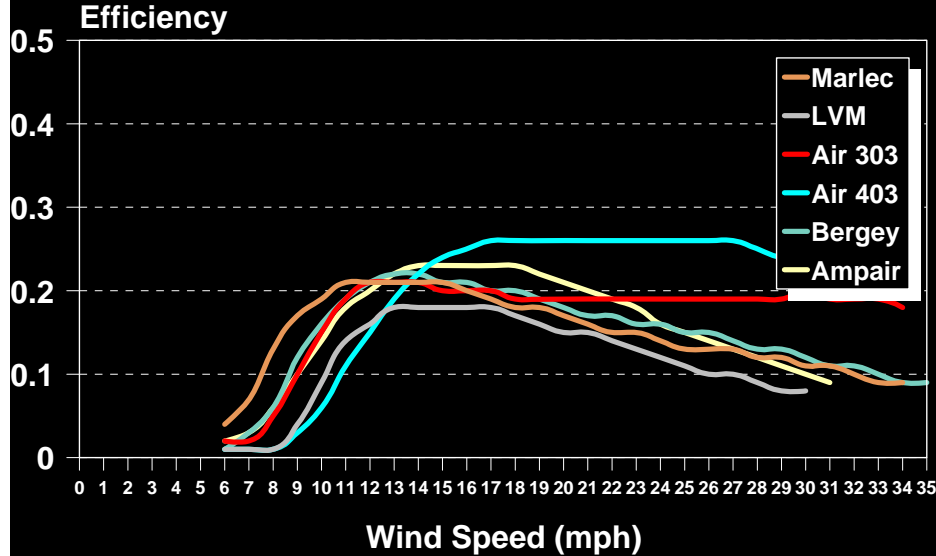
- **Testing & Certification**
SWCC Weeding Out the Crap
- **More Productive**
High-Performance Generators
- **More Durable**
- **More Swept Area**
- **. . . More Profitable**

Paul Gipe, wind-works.org

2013, Jonica Impianti
Cooperativo, Puglia, Italy

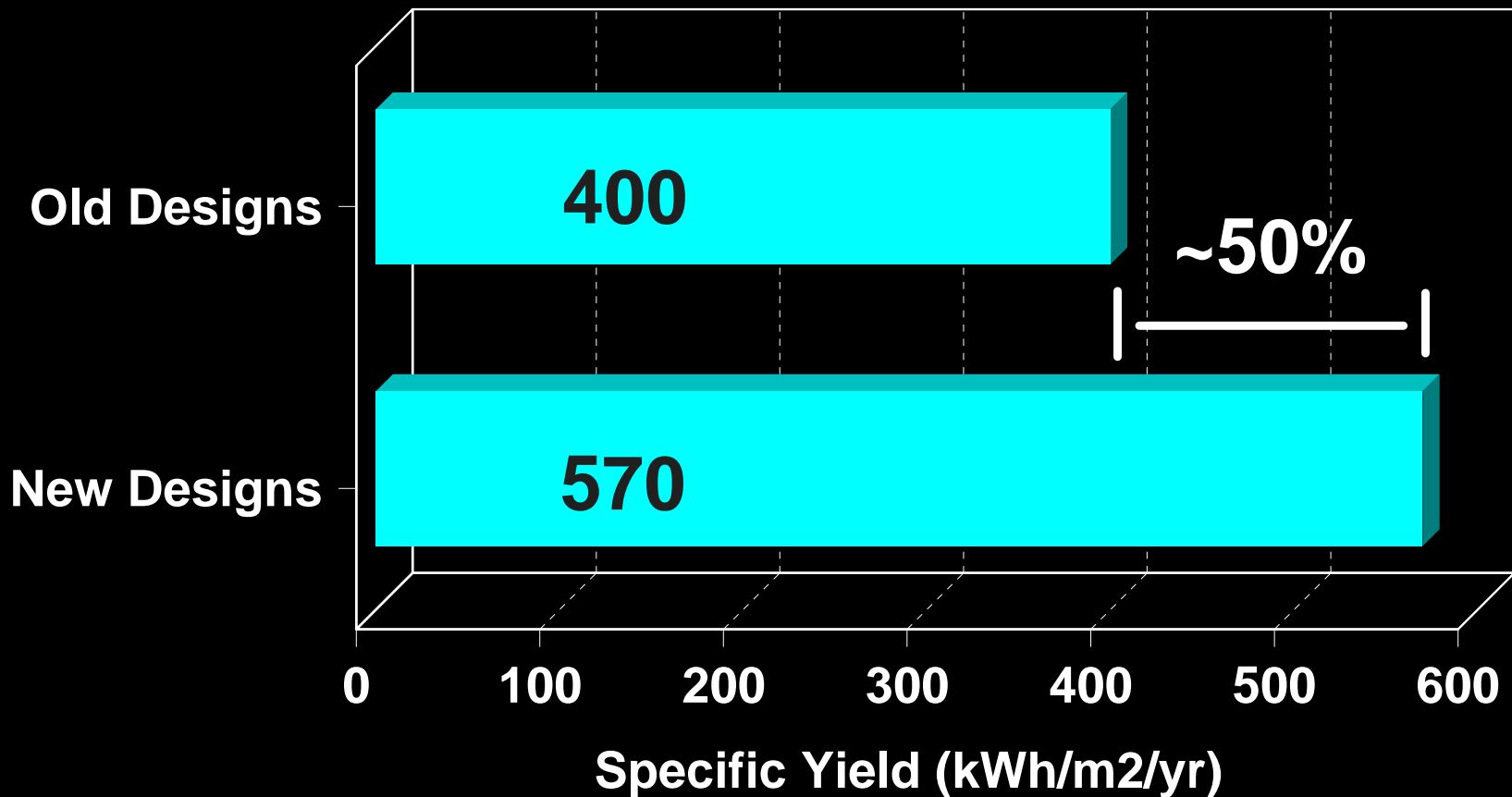
Improved Performance

- With New Turbines
- New Generators



~ 50% Performance Improvement

Annual Specific Yield @ 6 m/s Average Annual Wind Speed



Improved Durability

- Air Breeze 12/2007-4/2017
- ~10 Years Unattended

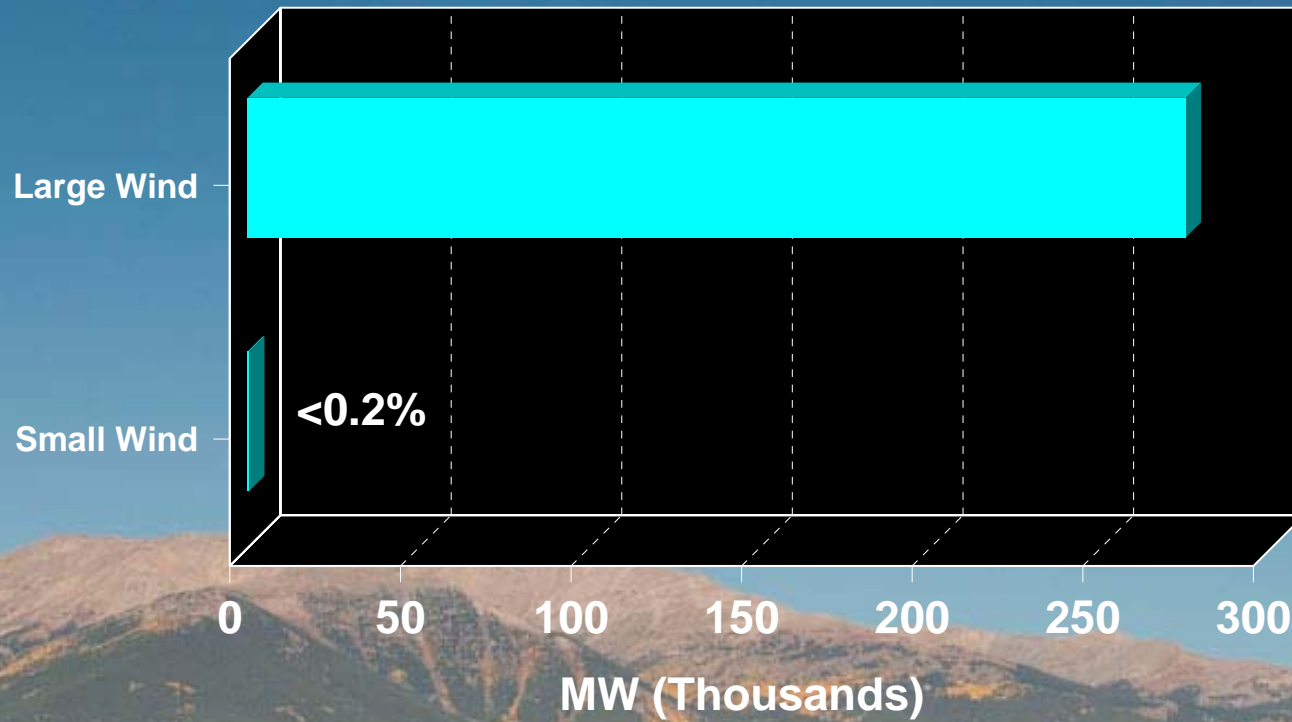
Nancy Nies

Paul Gipe, wind-works.org

Wulf Test Field, Tehachapi, California



2016 Wind Capacity Comparison



Small wind small player in worldwide wind energy market.

Paul Gipe, wind-works.org

2010, Buena Vista, Colorado

Small Wind on Wind-Works.org

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WIND ENERGY

LARGE WIND

SMALL WIND TURBINES

[Ducted Wind Turbines](#)

[FITs for Small Wind](#)

[LEED Leads to Bad Wind](#)

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[Rooftop and Urban Wind](#)

[Small Turbine Testing](#)

[Vertical Axis Wind Turbines](#)

[Worst Install in History](#)

WIND & THE ENVIRONMENT

HISTORY OF WIND POWER

ACCIDENTS & SAFETY

Articles on Small & Household Size Wind Turbines

Small wind turbines encompass a broad range of wind turbines from micro turbines, to mini turbines, to household-size turbines. Wind turbines in these size classes may have power ratings from a few watts to dozens of kW. Internationally, this category includes wind turbines up to 15 meters (49 feet) in diameter. Wind turbines of this size may have power ratings from 50 to 100 kW.

While ducted or shrouded wind turbines and Vertical Axis Wind Turbines can be of any size, they are listed here because they are outside the mainstream of the commercial wind industry.

[Small Wind Conference Chooses Gipe for Keynote Speaker](#)

March 10, 2017,

The Small Wind Conference has chosen Paul Gipe as its keynote speaker for its 2017 conference in Minneapolis, Minnesota. Calling Gipe "legendary" for his four decades writing about wind energy, the... [\[more\]](#)

[Endurance Wind Power bankruptcy spreads to UK](#)

December 9, 2016, by Nelson Bennett

Endurance Wind Power filed for bankruptcy sometime around early November and placed under trust with Grant Thornton, after its bank called in its loan.

Paul Gipe, wind-works.org

Small Wind on Wind-Works.org

SMALL WIND TURBINES

Ducted Wind Turbines

FITs for Small Wind

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Rooftop and Urban Wind

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Vertical Axis Wind Turbines

Worst Install in History

SMALL WIND TURBINES

Ducted Wind Turbines

Elena Energie

FloDesign-Ogin

Windtamer

Sheerwind-Invelox

Vortec

Rooftop and Urban Wind

Cleanfield

Honeywell Windtronics

Mag-Wind

Renewable Devices Swift

Small Turbine Testing

Wulf Test Field

*Small Turbine Product
Reviews*

Vertical Axis Wind Turbines

FloWind

Mag-Wind

Mariah Windspire

Cleanfield

Worst Install in History

Paul Gipe, wind-works.org