

## Wind Harvest Report Shows 20% of Wind Farms Have Good to Excellent Near-Ground Wind Resources

*The easiest and most profitable renewable resource to harvest in places like California and Barbados where near-ground wind speeds are good and land and energy are expensive.*

Sacramento, CA, October 13, 2020 — [Wind Harvest](#) announces the release of its report, which shows [20% of wind farms](#) have “good to excellent” near-ground wind resources. The report lists the total megawatts of wind farms with potentially profitable near ground winds in each county. The projected worldwide total as of 2019 is 130 GWs with the potential to double over the next decade.

The report also highlights the need for a wind turbine technology that can use this highly energetic but problematic resource. Large propeller-type turbines do not operate well in turbulence and thus have their blades raised above the gusting layer of wind below 100’ above the ground. Turbulence from their neighbors forces the large turbines to be spaced far apart from one another, using up good wind resource land resulting in a low total energy output per acre.

“The focus on ever taller and larger propeller-type turbines is one of the reasons the wind industry isn’t utilizing its excellent near ground resources,” says Kevin Wolf, President, and co-founder of Wind Harvest. “Our report’s data underlies our prediction that our new *Wind Harvester* turbines will trigger a gold rush into and a rapid buildout of the huge near-ground market, and just in time to help reverse global warming.”

Additional benefits of using near-ground wind resources in wind farms include:

- ❑ Their land is already zoned for wind, and roads and transmission lines are paid for.
- ❑ Permits should be easier and faster to secure.
- ❑ Compact short turbines won't have the [impacts](#) that stop tall turbines from being installed in some windy areas.
- ❑ Near-ground turbines could double or more most wind farms’ capacity and annual energy output. When paired [with solar panels](#) and storage, this super-powered wind farm can be a reliable, flexible source of energy that replaces gas peakers and coal-fired generators.
- ❑ Placing these vertically-spinning turbines close together produces what is known as the [Coupled Vortex Effect](#), meaning: the density of energy production from these wind-rich properties increases significantly.
- ❑ Wind farms have the potential to expand renewable energy in some of the world's windiest areas *and* lower the cost of electricity.

The report shows that the US has the most wind farms with average annual wind speeds exceeding 15.5 mph (7m/s) at 66' (20m) above the ground with 10,300 MWs. Next is Mexico with 5700 MWs, Brazil with 4300 MWs, and Turkey with 2800 MWs.

### Regulation “Crowdfunding” Campaign in Progress

The report complements Wind Harvest's "["Regulation Crowdfunding" campaign](#) to commercialize its compact (H-type) turbines. Open to all with a minimum of \$100 to invest, initial funding would allow its *Wind Harvester* turbines to go from [technology readiness level](#) (TRL) 6, a rare feat for renewable energy technologies, to completion of the pilot project (TRL 7) and certification (TRL 8) steps at the [Nordic Folkecenter for Renewable Energy](#) in Denmark.

For more information or to invest in this campaign, visit <https://wefunder.com/windharvest>.

### **About Wind Harvest**

Headquartered in Sacramento, California, Wind Harvest has a technological solution to mitigate the real—and urgent—climate crisis. Wind Harvest's solution can capture enormous amounts of previously untapped wind energy. The company's *Wind Harvesters* can also be deployed rapidly on a massive scale, because of how easy they are to manufacture and the large number of existing wind farms with excellent near-ground wind resources. For more information, visit <https://windharvest.com>.