



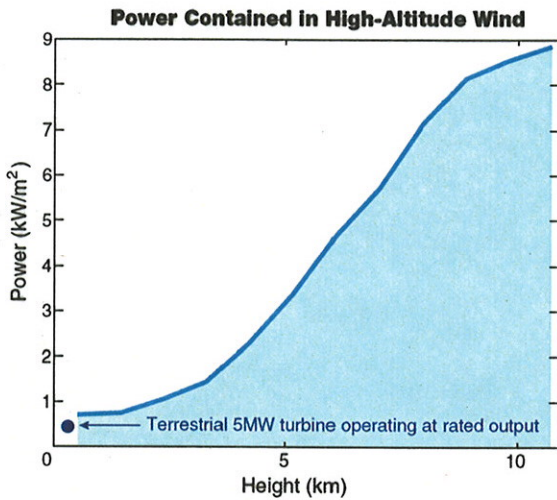
In 2006, less than two percent of the world's electricity was supplied by non-hydro renewable energy sources such as wind, solar and geothermal. One reason for this is the relatively high cost of producing renewable energy. Makani Power seeks to harness high-altitude wind energy to generate electricity at an unsubsidized cost less than coal-fired power plants, the predominant source of low-cost electricity worldwide today.

Why high-altitude wind?

Most renewable energy sources are diffuse, meaning their power density per unit area is low. Makani is pursuing technologies aimed at high-altitude wind because this resource provides among the greatest energy per square foot. Makani is designing membrane structures to cover large areas of the sky efficiently and cost effectively.

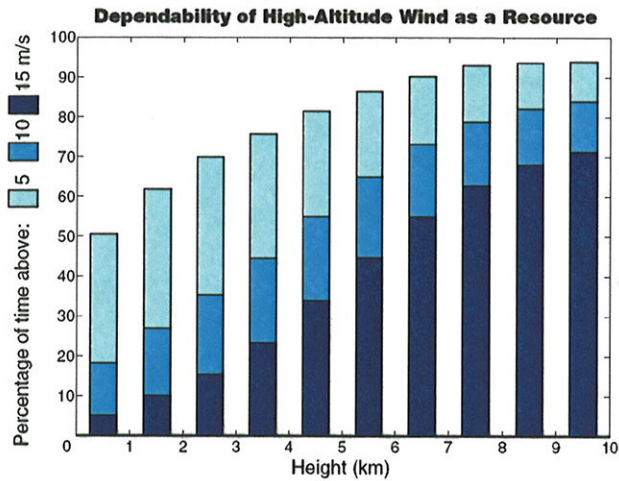
From existing data, the average wind energy at high altitudes appears to be more than 10 times greater than at a well-sited terrestrial wind turbine. In addition, high-altitude wind is a highly dependable resource.

Capturing a small fraction of the high-altitude wind energy flux could meet current electricity needs globally. Makani envisions applications of its technology to not only pioneering high-altitude wind power, but also traditional terrestrial wind parks.



This graph shows the increasing power contained in the wind as altitude climbs. For comparison, the kinetic power per square meter of a large terrestrial turbine operating at rated capacity is shown as a blue dot. Data source: MADIS NOAA Profiler Network. Values shown are averages of all stations across the U.S. and Japan network.

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At higher altitudes, the dependability, or frequency at which the wind blows above certain speeds, increases dramatically. This suggests a much higher dependability, or capacity factor, for high-altitude wind than for traditional terrestrial turbines. Data source: MADIS NOAA Profiler Network. Values shown are averages of all stations across the U.S. and Japan network.

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About Makani Power

Makani Power was founded in November 2006 by Dr. Saul Griffith and Don Montague. Our vision is to pioneer renewable energy technologies that, without subsidy, are cost-competitive with coal. Located in Alameda, California, we have assembled a team of world-class experts in materials science, aerodynamics, mechanical and electrical engineering, software, power electronics, motor control, control theory and automation.

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