



# ELECTRICITY FROM WIND POWER. GENERATED LOCALLY AND IN AN ENVIRONMENTALLY FRIENDLY WAY.

 SWISS INNOVATION

After more than 12 years of research & development Agile Wind Power provides an entirely new wind energy technology. Developed in Switzerland and manufactured in Germany, the large wind turbines have much less impact on their immediate surroundings than conventional wind turbines. Those wind turbines are based on trail-blazing technology designed for energy-intensive commercial and industrial applications and suitable for decentralized own power generation.

For the first time ever, a full-size, high-performance, and economically scalable wind turbine of this type has been built and certified and is now being launched on the market. Significant advantages enable the use of new locations and met a previously unserved customer demand. The current turbine model has a capacity of 750 Kilowatt whereas larger turbine models are planned.

## Lack of technology to use the potential

Energy-intensive consumers are called upon to reduce their CO<sub>2</sub> emissions through the use of renewable energies. Complementing other renewable energies, wind power offers an important resource for local power generation in many places. Due to its impact on the environment, however, it usually cannot be used with the present-day wind turbines.

In this regard, other wind turbine systems (for example, vertical-axis wind turbines and others) have been promising advantages for decades, but up to now they have been limited by their long-term reliability, their efficiency, their scalability and ultimately their cost-effectiveness, for which reason the technology could not be used commercially and over large areas. Accordingly, there is a lack of suitable wind power technology to **exploit the very large untapped potential**. This is where Agile Wind Power's unique solution kicks in. It expands the commercial usage possibilities of wind power for the first time and sets a new benchmark in the future-oriented and sustainable supply of energy.

## Unique advantages for avoiding negative effects on the environment

Agile Wind Power offers for the first time a large (750 kW), cost-effective wind turbine with a much lower impact on the immediate surroundings. It is **virtually silent**, integrates itself better into the surroundings, poses a lower threat to birds and bats, is efficient, simple to maintain and designed for long-term commercial operation according to the relevant standards for large wind turbines.

This means that Agile Wind Power plants can be operated near populated areas that have so far been unsuitable with conventional wind turbines. **Agile Wind Power is thus the first and only company that can meet the great need of energy-intensive consumers for local power generation from clean wind power in a cost-effective and environmentally-friendly manner that is acceptable to the general public.** This enables municipalities as well as energy-intensive commerce and industry to generate their own power locally, independently and sustainably and in this way to reduce CO<sub>2</sub> emissions and avoid rising energy costs.

## Promising, patented wind power technology

Agile Wind Power achieved the breakthrough with the development and implementation of the real-time rotor blade pitch control – a patented and, up to now, unique technology that continuously adjusts and optimises the position of each individual rotor blade while the rotor rotates. This not only achieves a higher efficiency than existing wind turbines of this type, but also the noise and mechanical load are kept at a low level by the reduced speed. Thus, the plants can be positioned directly adjacent to consumers and can produce power locally.



«With this technology, climate targets can be met much faster.»

Patrick Richter, Founder & CEO

## Developed for the needs of local power generation

In particular private and public facilities as well as companies with a high power requirement benefit from these new plants. It supplies municipalities or business locations with commercial and industrial estates directly with locally generated wind power electricity.

They also optimally supplement other locally used renewable energies: for example in the winter months, when the potential for solar and hydroelectric power generation is reduced, wind power can take over to fill the gap. Typical applications can be found in industrial companies, water treatment plants, hydrogen production, gravel pits, mines, livestock farms, cold storage facilities, computing centres, cable railways and remote regions or islands. This is reflected in the unbroken high level of interest and the steadily increasing number of customer enquiries. They wish to benefit from supply security **avoid rising costs**, increase energy self-sufficiency and contribute directly to **reducing global CO<sub>2</sub> emissions**.

## Huge market potential

According to a conservative estimate, the worldwide market potential for locally installed wind turbines for own electricity generation amounts to an installed capacity of at least 100,000 Megawatt within this decade. This is equivalent to a potential of more than 130,000 Agile Wind Power plants in the initially available output size of 750 Kilowatt. Apart from Agile Wind Power AG, there are currently no other manufacturers of comparable wind turbines that are certifiable according to the standard for large wind turbines. Agile Wind Power therefore is a clear **"First Mover"** with its plants.