



**Energy independence at home and at work:  
clean energy generated day and night, summer and winter**

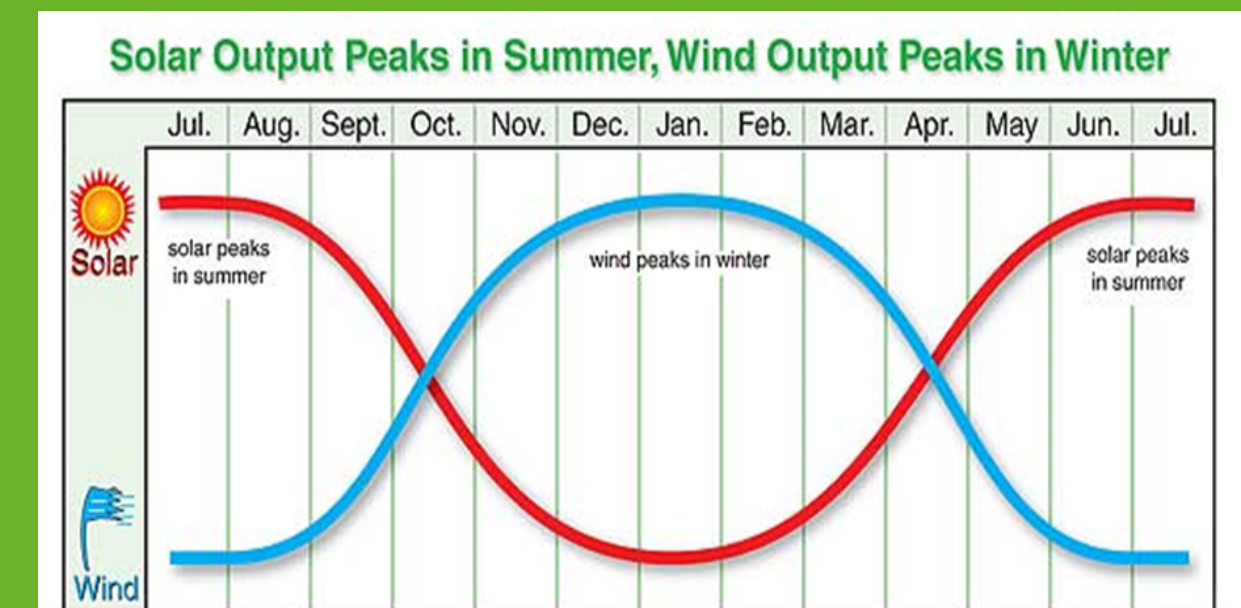
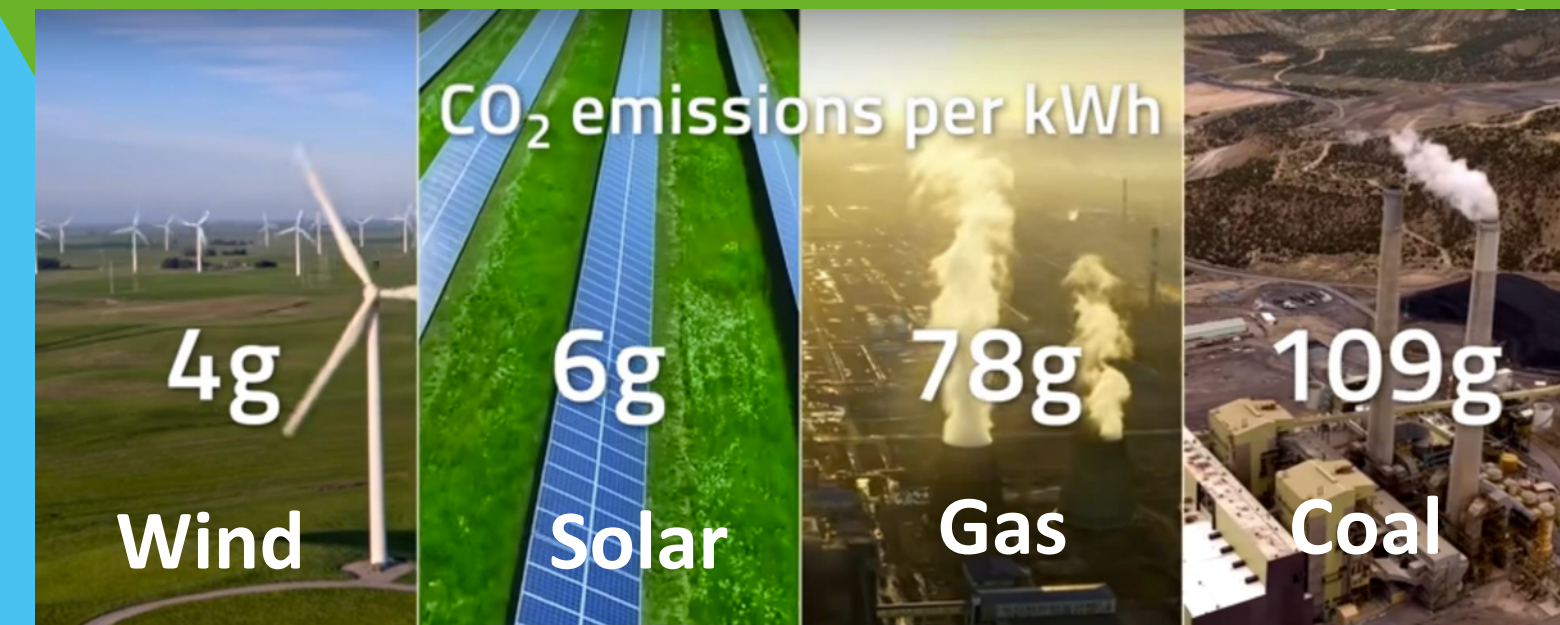
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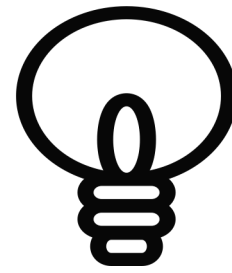
# Problem: the energy transition has many challenges

- Climate change has devastating impact on people and the environment
- Global warming continuous, due to CO<sub>2</sub> generated by fossil fuels
- High fossil fuel dependency on unstable regions and unreliable suppliers
- Intermittent and unreliable renewable energy supply
- Risk of power shortages and black outs, especially in winter

- Costly and inefficient to store green electricity
- Sun doesn't always shine
- Wind doesn't always blow



# The ideal Solution

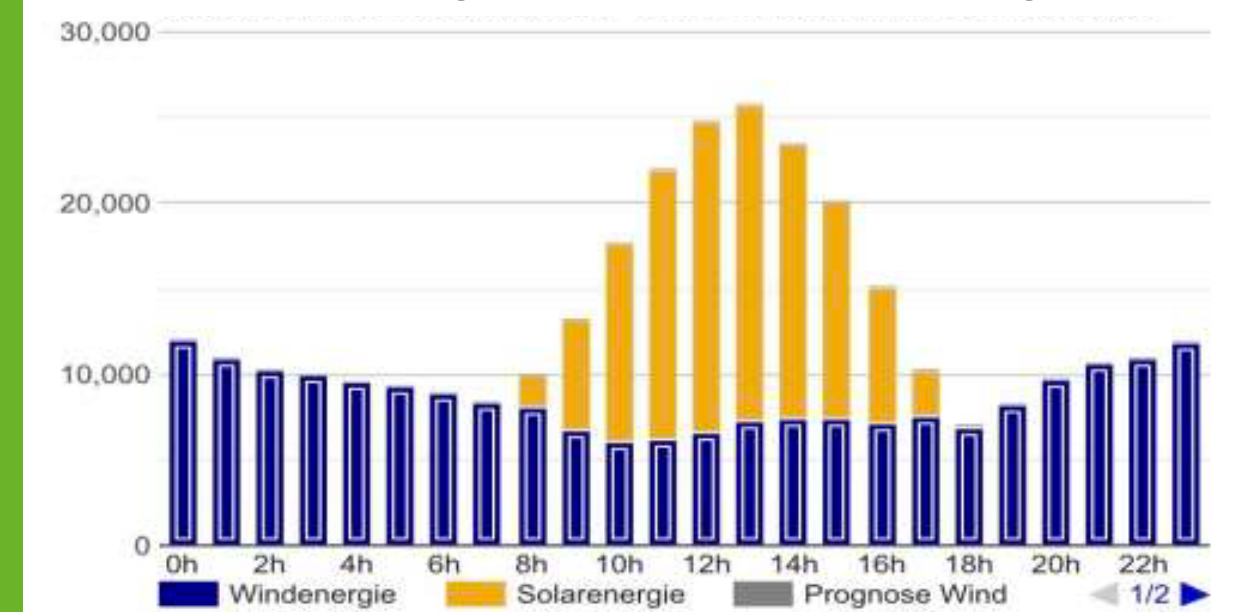


We need a smart technology that

- generates clean energy locally where it is needed
- harnesses and stores all available wind and solar energy 24/7 – day and night, summer and winter
- uses the most advanced technologies
- can be installed easily and at low cost
- can be used on- and off-grid
- solves the battery storage problem
- turns buildings into power plants

## Combining Wind & Solar

Wind & solar energy production on an average day



By combining solar & wind, you get 24/7 green energy production





# Newgreentec Products are

# Plug-and-play micro power plants

PowerPyramide™



EnergyTower™



RoofPower™



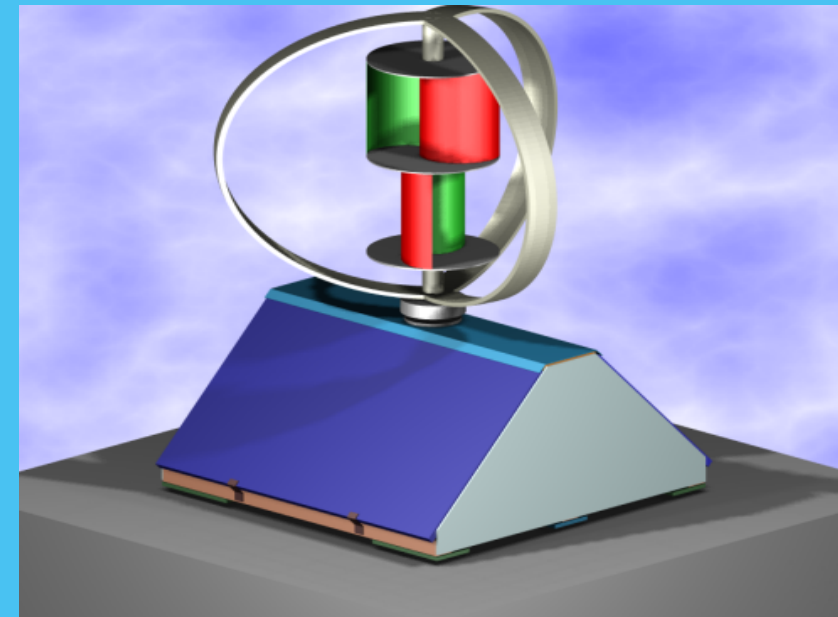
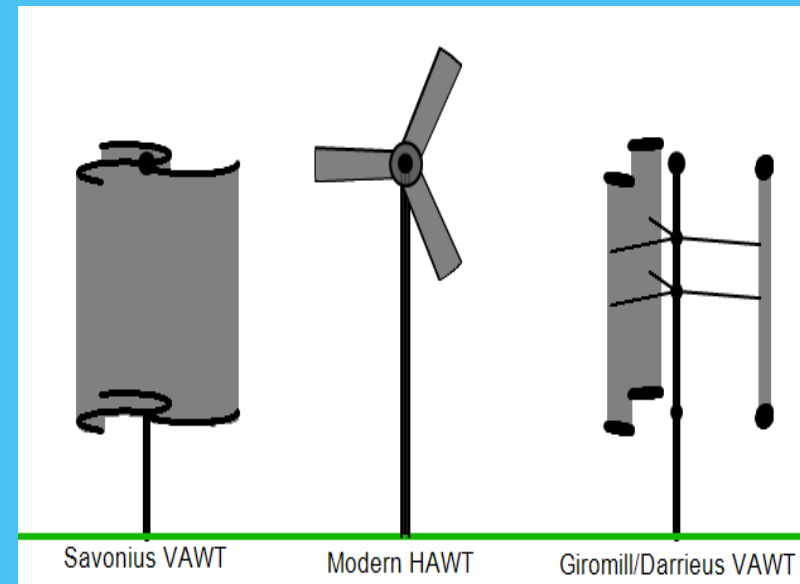
Modular solutions, adapted to needs:

- Combined with existing solar installation
- As stand alone, on mast or roof top
- In various sizes and shapes

With the latest cutting edge components we created hybrid solar & wind micro power plants

- All-in-one, plug-and-play solution
  - Easy to install, ready to use
  - For small to large scale customer needs
- New, dual vertical axis wind turbine
  - independent of wind direction
  - silent and no danger for birds
  - aesthetically beautiful eye catcher
  - efficient and robust
- Advanced electric controller and inverter
  - smart, all-in-one, low consumption
- Newest photovoltaic
  - for power generation, air flow guidance, weather protection, aesthetics

# Innovative Vertical Axis Wind Turbine



Vertical axis wind turbines (VAWT) are:

- Wind direction independent
- Self starting at low windspeed
- Robust and gust-resistant
- Ideal for low heights
- Maintenance-free and durable
- Quiet and - aesthetically beautiful
- No danger for birds

## Catching Accelerated Winds

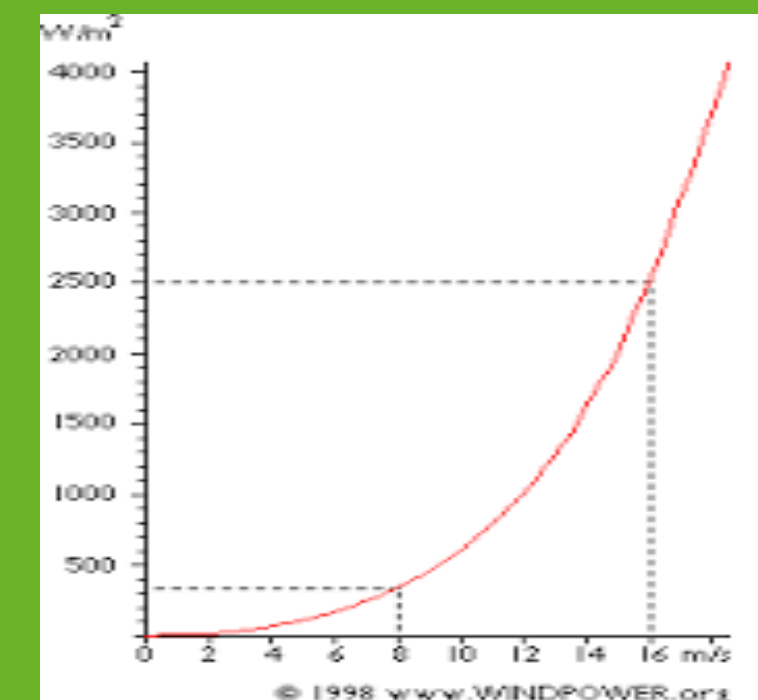
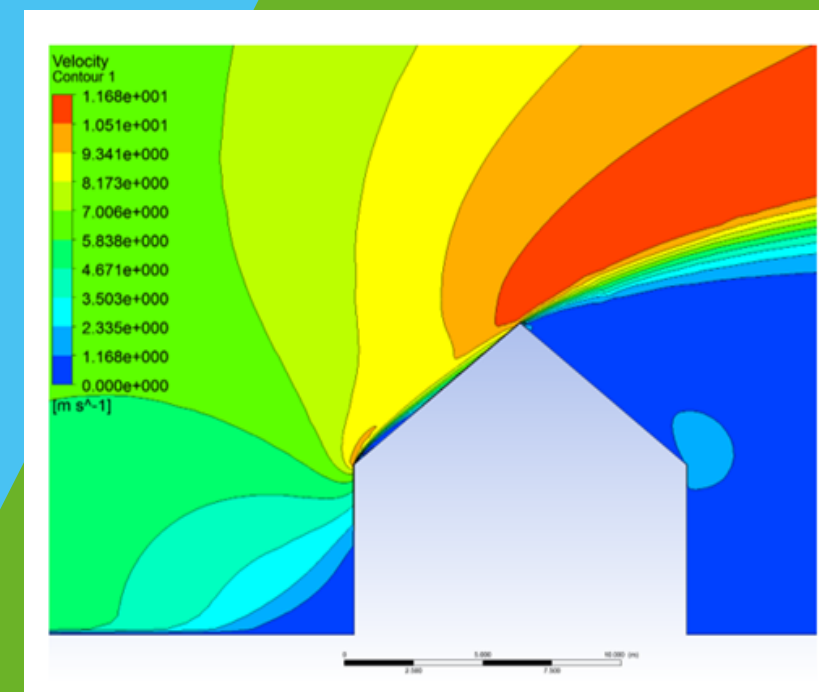
You catch more wind on roof tops

- Dynamic pressure generates high wind speeds

Progressive increase in wind energy production

@ 2 m/s = 100 watts

@ 4 m/s = 800 watts



## Market Potential

Solar installations in 2021:

CH: 27'000

DE: 196'000

EU: 600'000 (estimate)

Competitors mostly offer either solar or wind solutions. No one offers hybrid solutions with vertical-axis wind turbines; we are the first in DACH.

## Target Customers



B2C through resellers / installation companies

Owners of building in wind-prone areas that want to generate own clean energy energy / electric cars etc.

B2B Large real estate / office owners who need to reduce carbon footprint, and create a greener image

Applications:

farms, mountain restaurants, remote buildings, SMEs, recreation resorts, public buildings, high rises, condominiums, schools, clinics, border guard & research stations, water treatment, communication equipment, tourism infrastructure, gas station, ski resort etc.



# Newgreentec Impact

Multiple Awards:

- Future Energy Start up
- Klimapreis
- Swiss Energy Cluster Future Days
- Climate kick



# Already several installed systems

On energy efficient buildings in Männedorf and Urdorf



Walter Schmid: "The Newgreentec PowerPyramid delivers the energy for the lifts in our buildings"







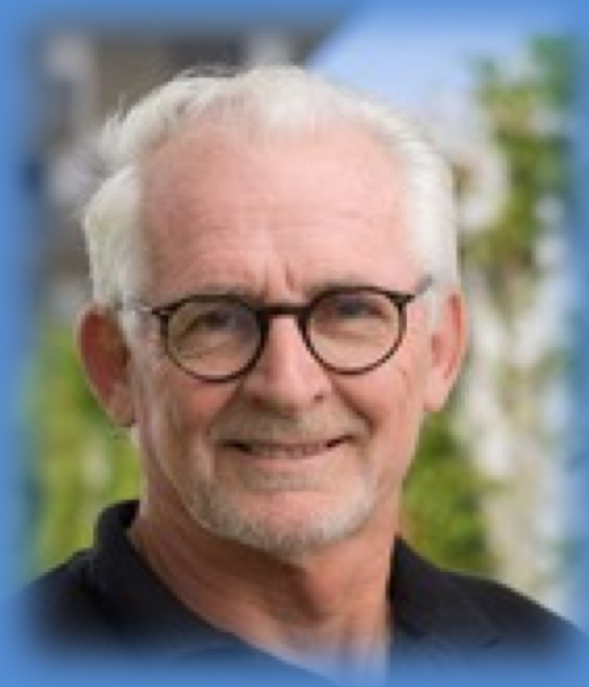
## Summary



1. PROBLEM: Energy transition needs smart solutions that combine multiple green energy sources
2. SOLUTION: First and unique hybrid wind-solar mini power plant for roof tops. There is no direct competitor
3. PRODUCTS: All-in- one, plug & play system, 24/7 power supply, low installation cost, minimal maintenance costs, silent, aesthetic
4. MARKET: 135M CHF / year potential in EU; fast growing, promoted by governments, urgent demand for CO2-reduction and trends. Both home owners and businesses
5. COMPETITION: No direct competitors that combine wind & solar in one solution
6. TEAM: Top experts, wide experiences, passionate, highly motivated and ready to work and contribute to a greener world



# Meet the Team



Frido Stutz, founder

Entrepreneur, flight captain, flight engineer and founder at NewGreenTec GmbH & V-Locker AG

He developed products for automated parking systems for vehicles and hybrid systems for the generation of sustainable electrical energy from solar and wind energy and founded several companies for this purpose

Board Members

Jolanda Eichenberger – extensive experience in energy and finance industry

Raphael Jäger – Lawyer, business angel

May Wyder – entrepreneur, solar-and-roof building expert

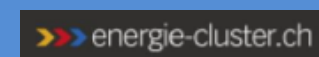
Advisors

Reto Seiler (wind), Prof. Hendrik Nordberg (renewable energy), Paolo Varisco (finance)

Team members:

Mark Hogenboom (sales & marketing), Marianne Müller (administration), Edgar Schlenk (sales & product development), Walter Isoton (electro engineer)

## Partners



Schmid GU und Architekt; Innovationspark Dübendorf;  
OST FH Rapperswil; FHNW Windisch



# Thank you!

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