



# SuSi SuperSilent ecological small windturbine

presented by Dr. Elena + Susanne Möhring | EURO-WINDPOWER oHG

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# SuSi SuperSilent windturbines

## noiseless, sustainable, durable from ecological materials



- Farmers, owners of holiday houses, resorts, individualists, business owners, people living on islands or at the seaside have energy at hand :

## WIND, WIND, WIND

- The SuSi windturbine is the low-cost, easy to build, do-it-yourself DIY wind energy collecting device, that fits perfectly into any living environment.
- It can easily be combined into hybrid-solutions with solar / PV installations.





# SuSi SuperSilent – the vision, the concept, the idea

- The **vision has grown in 2011** to support developing regions all over the world with an ecological, independent and easy to build up power supply.
- Dr Moehring invented and developed the SuSi windturbine starting in year 2011
- **Since 2014 EURO-WINDPOWER oHG**, the family business of Dr Elena Möhring and Susanne Möhring - mother and daughter - further optimized and installed SuSi VAWTs
- The **Do-It-Yourself (D I Y) concept** was first tested by themselves, later with partners and clients. The „low-tech concept“ was intentionally designed as it is, to have each and any SuSi windturbine built on-site and with **local manufacturers and partners**, as „island solution“ or in hybrid-installations together with solar/PV and/or water pump systems.
- The idea and concept of SuSi windturbines was successfully registered 2014 with the Germany Patent and Trademark office.



# B2B Partners and organisations worldwide will join our vision! Let us collaborate in partnership



- **We are looking for further partners**, especially small or medium sized businesses, especially family driven businesses or such run by the owners themselves, craftsmen and manufacturers:
  - **Craftsmen** of woodwork, metal design and carpenters
  - **Businesses** that are already selling products in the renewable energy area, like photovoltaic, warmth pumps and other energy products for houses, resorts, farms, decentralized locations
  - **Partners**, who share our vision to offer SuSi as an independent power supply, power back-up in cases of sudden emergency and as power supply device in case of black-outs from a grid
  - **Project Partners (NGO, schools, communities)**, whose intention is to build the SuSi with a team of young people, unemployed workers or other persons seeking a challenge and looking forward to proudly use and present the result of their own work : **The working SuSi – that is their own !**

*The SuSi concept is principally not meant to be a „money making machine“ for stakeholders.*

# Facts and specifications of SuSi **VAWT** windturbines



- SuSi Windturbines deliver 12V DC to be stored in batteries. From these you can easily take the power to **12V products** like lights or you **can transform 12V to 230V**. Of course you can easily attach almost any products running either on 230V AC and/or 12V DC caravanning products, both in parallel.
- As the **power is saved whenever the wind blows**, the stored in energy is not stored continuously, only when wind blows. The storage capacity of such a AGM or bigger lead battery normally should start at 120Ah and can be increased by adding batteries.
- The SuSi windturbine requires wind speed of at least **20km/h = 6m/s (cut-in speed)** to start producing power to be stored in batteries.
- The SuSi windturbines easily work together with existing renewable energy products like warmth pumps and/or photovoltaic /solar collectors (24V), in ecological projects known as „**hybrid-installations**“. **Ask for more details !**
- The SuSi windturbine is **noiseless**, made of **ecological materials** and **self-regulating** at any speed thus not have to be shut down in storms
- The SuSi windturbine has translucent blades and a **size of 1.5m width** and at **max. 10m height**.



# Places for SuSi to be set up and used as decentral power supply

- **Small farms** looking for a power supply from their own storage batteries (12V DC) in case of a grid black-out
- **Community places** like Kindergarten, primary schools, youth clubs that want to build the SuSi as their common project and afterwards proudly experience the collection of energy from nature for personal use
- **Small companies** that are looking for an eye-catcher spinning in the wind and showing their advertorial information
- **Camping and holiday sites**, camping sites at beaches or in mountain areas and holiday homes, that are not connected to a grid and who would like to have stored electric power for security
- **Coastal areas** with sailors' and surfers' tourism places, and scenic tourist resorts with special interest in ecological power generation and power supply
- **Agricultural sites** at demanding need energy for water pumps without having current power supply





# Steps for SuSi to get to the final place to work for you !

Checking wind speed over at least 3 months.  
Regular wind at more than 30 km/h required.

Decision on how to build it  
(DIY or partly pre-assembled)  
Family, friends, project teams

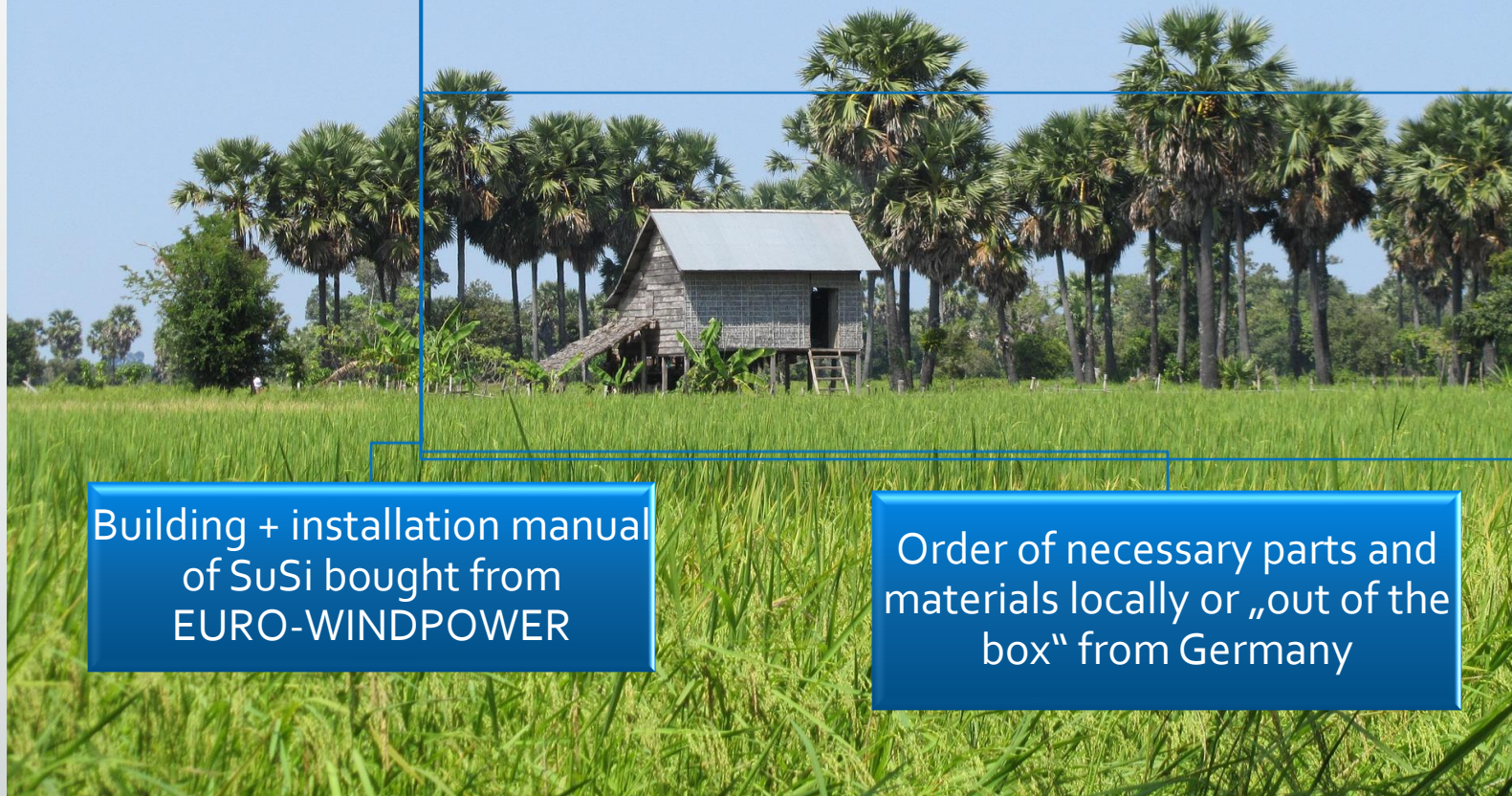


Assembling partly off-site by craftsmen or partners or all on-site

Building + installation manual of SuSi bought from EURO-WINDPOWER

Order of necessary parts and materials locally or „out of the box“ from Germany

Set-up on-site and finish within one day with the team





# Offgrid, Do-It-Yourself (DIY), one single investment



- SuSi windturbines have to be bought once. They have **no subsequent costs**. They offer **12V/24V and 120V/230V supply**. A single SuSi is suitable for one household, shed, small farm, caravan site, house, the pico-grid etc. not for community grids.
- SuSi windturbines offer **independent power supply from batteries** in **offgrid** scenarios or in **blackout** situations. They work perfectly together with PV installations that save power in the same batteries for non-continuous demand of power.
- SuSi windturbines are a **do-it-yourself concept**. They are assembled locally and **set up** manually on-site in **one day**.



# Steps to get SuSi to your place in Cambodia:

## Contact us

We provide the plan and details which parts are necessary

## Contact local parts suppliers or us

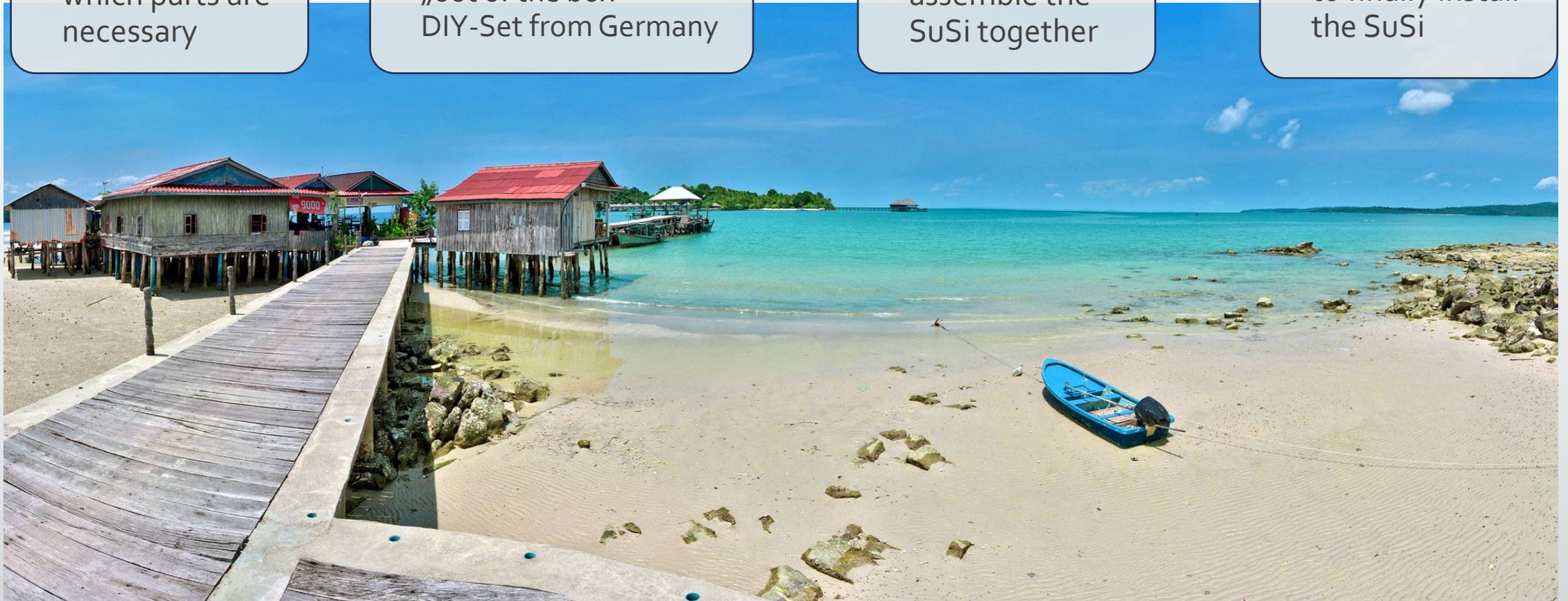
Order parts locally or the „out of the box“ DIY-Set from Germany

## Build the team

Decide which persons will assemble the SuSi together

## Install the SuSi

Choose one day with low wind to finally install the SuSi



# Contact us for further information

- SuSi windturbines can be used as stand-alone and independent power supply, as well as part of a whole energy concept at your place.
- Ideal for most ecological projects!  
NGO and governmental projects welcome.
- **Ask for further information  
on how to implement it at best into  
your idea, your concept or your project.**
- **Feel free to ask any questions!**
- Thank you for taking the time and listening.
- Yours Dr. Elena + Susanne Möhring



## Contact information :

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