

# Hybrid Energy Systems – Autonomous Energy Supply 24/7

## Company Presentation

Graduate Engineer Joachim Sroka

Kap Verde, 25.11.25



## Development

Entwicklung

Produkte

Alleinstellungsmerkmale

Anwendungen

Erfahrungen

Kontakt

- 2002 Sales, installation, service and development of small wind turbines
- 2019 Integration with photovoltaics and battery storage
- 2021 Addition of charging infrastructure
- 2023 Autonomus off-grid system 400 V 50/60Hz
- Up to 250 kW per hybrid component



## Products

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- Photovoltaics
- Small Wind Turbines
- Energy Storage Systems
- Autonomous HET Hybrid Energy Tower and HES Hybrid Energy Systems



## Unique selling points

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merkmale

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- Everything from a single source:
  - Consulting
  - Energy demand analysis
  - Component planning
  - Installation
  - Commissioning
  - Service
  
- Years of experience

Sizing of the individual components:  
As large as necessary, as small as possible



## Applications

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Kontakt

- Power supply for remote communities and projects
- Generate – store – release energy
- Production of hot water and heating energy
- Electricity generation for electric cars, operating systems, household



## Applications

Entwicklung

Produkte

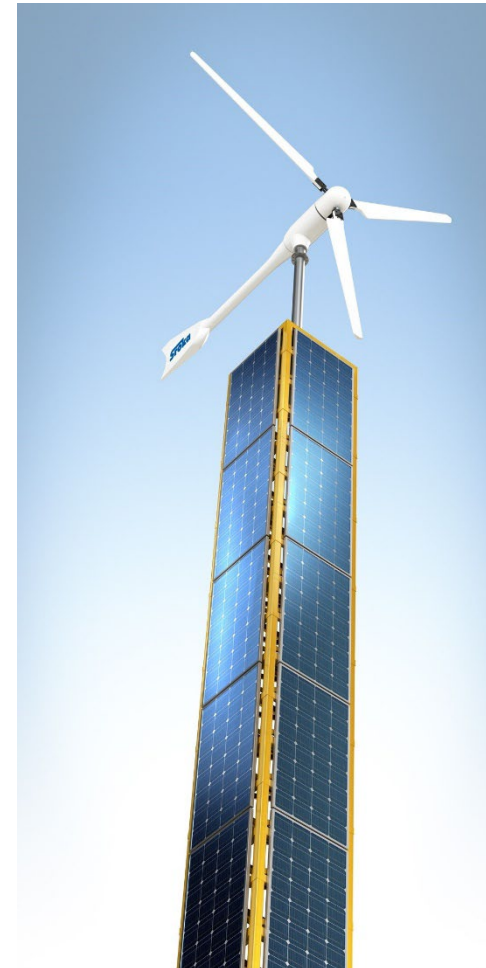
Alleinstellungsmerkmale

Anwendungen

Erfahrungen

Kontakt

- Pumping and supplying water
- Production drinking water
- Operating wastewater treatment plants
- Energy supply for communication systems/radio masts, data centers
- Temporary energy supply in emergency situations



# Experiences / Insights

Entwicklung

Produkte

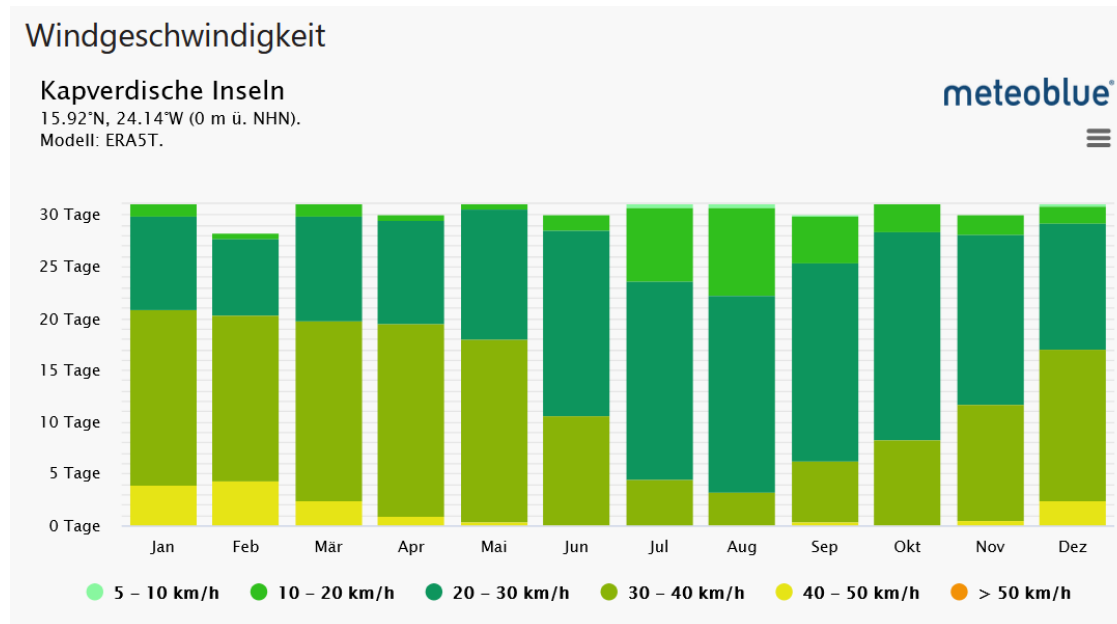
Alleinstellungsmerkmale

Anwendungen

Erfahrungen

Kontakt

## High wind speeds



## Experiences / Insights

Entwicklung

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Alleinstellungs  
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- Heavily dust-covered photovoltaic systems/ performance loss
- Limited capital availability vs. costly small wind turbines



## Experiences / Insights

Entwicklung

Produkte

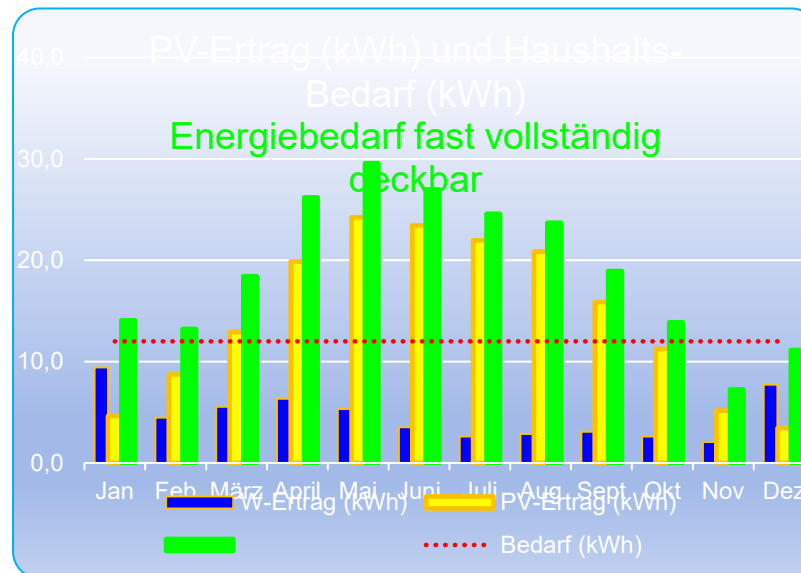
Alleinstellungsmerkmale

Anwendungen

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- Instead of pure photovoltaics or small windturbines, hybrid energy systems
  - More consistent energy supply
  - Cost reduction
  - Mitigation of disadvantages (lower output and high costs)



## Contact

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Alleinstellungsmerkmale

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Kontakt

- Well-connected cooperation partners in sale
- Persons responsible in the areas of telecommunications, civil protection and energy supply in rural areas
- Agricultural and forestry businesses, water supply companies, operators of water desalination plants
- Projects developers and construction planning offices for tourism, agriculture and hotel projects
- Investors as well as tax and financial advisors looking for investment opportunities (in renewable energy)

## Contact

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merkmale

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Kontakt

**Thank you very much for your attention!**

**Your specialist company for small wind  
turbines und HES Hybrid Energy Systems**

Sroka Erneuerbare Energien GmbH  
Doberow 3  
D-14797 Kloster Lehnin

Fon: (+49) 3382 / 7415-0

[sroka@sroka.de](mailto:sroka@sroka.de)

[www.sroka.de](http://www.sroka.de)

