

INFORSE-Europe Sustainable Energy Seminar  
August 21-24, 2017

Nordic Folkecenter for Renewable Energy, Denmark

**INFORSE-EUROPE**  
International Network for Sustainable Energy

## Nordic Folkecenter for Renewable Energy

by Leire Gorroño; August 21, 2017

Nordic Folkecenter for Renewable Energy



See the Program and the Proceedings at: [http://www.inforse.org/europe/seminar\\_17\\_DK.htm](http://www.inforse.org/europe/seminar_17_DK.htm)

# Nordic Folkecenter for Renewable Energy

*Working for a world running on 100%  
renewables since 1983*



# INTRODUCTION

# Danish NGO focused on renewable energies



## VALUES:

- 100% renewable energy
- energy saving
- reduction of pollution
- local and global sustainability
- universal access to energy
- energy democracy
- local development
- local support to renewable energies
- equality and respect



## Preben Maegaard

- Founder and Director Emeritus
- Renewable energy pioneer
- Responsible for the technological innovation of several renewable technologies
- Project manager
- Author
  
- Chairperson, WCRE
- Member of Board, EREF
- Member of Board, Danish Small Wind Turbine Association
- President Emeritus WWEA
- Founding President of SolarSuperState
- Honorary Member of Board and Vicepresident, EUROSOLAR



# Folkecenter in the world



- Collaborates with universities, research centres, international organisations and companies of all over the world
- Member of various associations
- Member of the Danish Network of Green Tours and the Danish Network of Living Labs

Among others...



AALBORG UNIVERSITY  
DENMARK



World Wind Energy Association



SolarZentrum  
MECKLENBURG-VORPOMMERN  
DORF MECKLENBURG

EREF

European Renewable Energies Federation



WCRE  
World Council for Renewable Energy

YORK



UNIVERSITÉ  
UNIVERSITY



DTU Technical  
University of  
Denmark



IWPA  
helping mankind with energy from nature

INFORSE

International Network for Sustainable Energy



COMMUNITY  
POWER



CWEEA



energiblog.dk

EUROSOLAR  
The European Association  
for Renewable Energy

# **MAJOR WORKING FRONTS**

# 1

**Development and implementation of renewable energy systems and elaboration of energy policy recommendations.**

Testing of various technologies:

- Small wind turbines
- Photovoltaic panels
- Solar thermal collectors
- Wave energy
- Transport: hydrogen, electric, biofuels
- Off-grid solutions
- etc.

# The test field for small wind turbines



# The test field for photovoltaic panels



# The test field for wave energy



# 2

**Support and consultancy to SME and other relevant stakeholders.**

- Assistance in product development
- Assistance in the process “from idea to market”
- Testing facilities
- Assistance in preparation of funding applications
- Consultancy on the potential of products
- Training of staff and teams
- Market analysis and strategies
- Event organisation





Engineers from the small-wind company Wind Harvest assisted by Folkecenter's team at the test field

# 3

**Information and training about renewable energies to public institutions, politicians, citizen groups, SME, students, etc. in Denmark and abroad.**

In 2016 more than 6,000 people visited Folkecenter to learn and discuss about renewable energies. Approx. 25% of the visitors were international.

Folkecenter's website gets approx. 1.7 million visitors per year.



K FOLKCENTRUM  
FC



**Community Power and Energy Storage Conference, 12 Dec 2016**

# One-week study tour for representatives of 4 Turkish municipalities






**French law student researching about wind energy in Denmark makes a stop at Folkecenter**



**Conference about the upcoming EU Directives  
and their impact on community power,  
Danish Parliament, Sep 2016**

Conferences in Japan,  
WWEC2016 and the  
first World Community  
Power Conference



THE 15th World Wind Energy Conference and Exhibition  
**WWEC2016 TOKYO**  
*"Concentrating efforts for wind power growth in Japan and worldwide!"*  
The University of Tokyo, Japan  
31 October - 1 November 2016 / Technical tour and workshop on 2 November

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wwec@wwec2016tokyo.com, <http://www.wwec2016tokyo.com/>

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30/10/2016



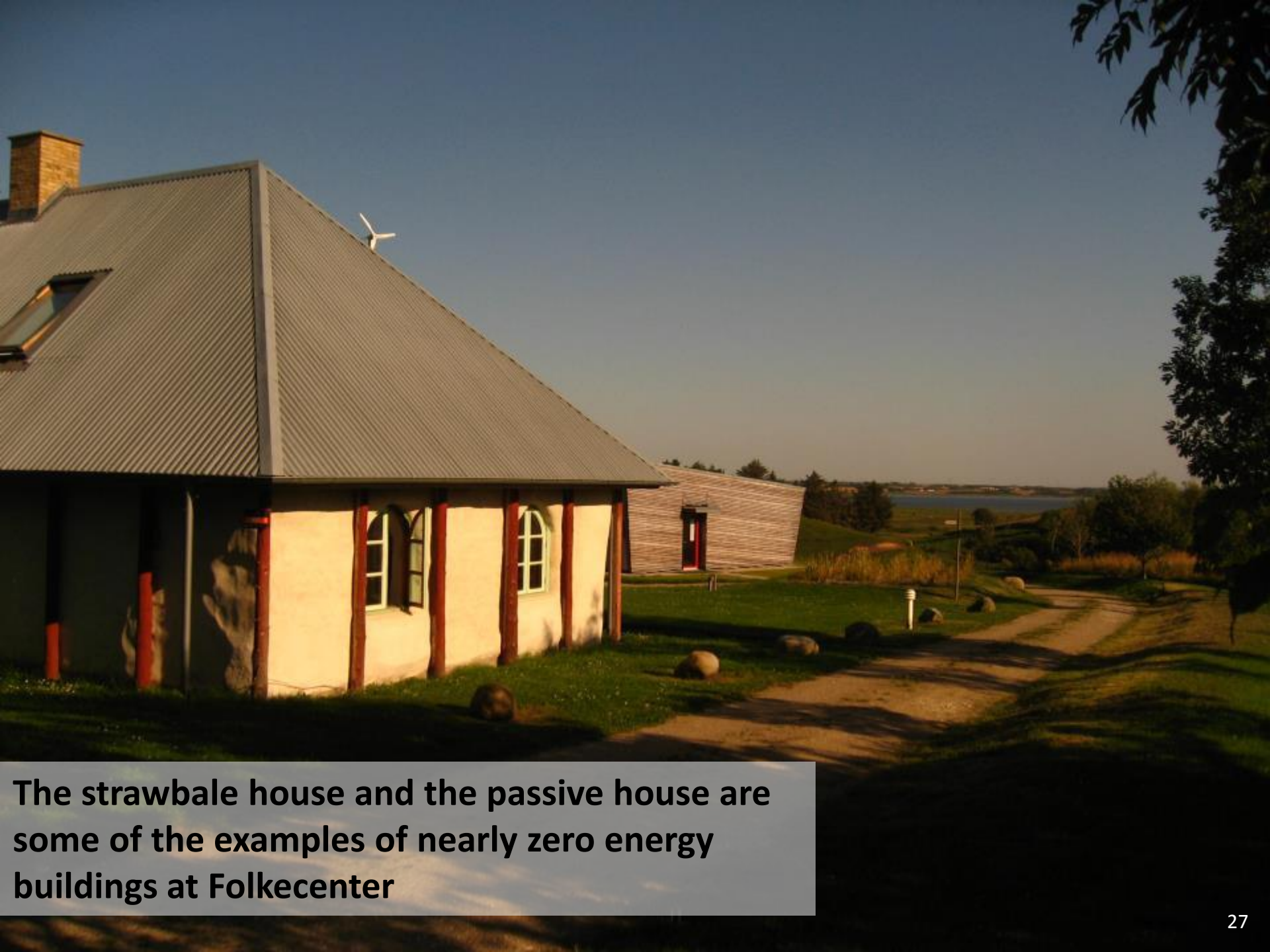
# 4

**The Village for Green Research demonstrates practical examples of integration of several energy solutions, solar housing, water recycling systems etc. as an experimental and functional example of a future ecological society.**



## The main building





**The strawbale house and the passive house are some of the examples of nearly zero energy buildings at Folkecenter**

**The “Biodome” represents some of the attempts to reduce the use of chemicals and the energy consumption in agriculture**



**The centre has 3 different plants for biological treatment of used water**





**The e-mobility centre**

# **CURRENT PROJECTS**

# For Europe and industrialised countries



## Powering Communities

- capacity building
- 100% renewables and community power in Turkey
- EUROSOLAR Turkey
- Turkish-European projects



[www.poweringcommunities.org](http://www.poweringcommunities.org)

## VVMplus

- research
- integration of social impacts in EIA in order to increase local acceptance of new renewable energy installations
- Aalborg University and The Technical University of Denmark
- Danish project



[www.vvmplus.dk](http://www.vvmplus.dk)

# For Europe and industrialised countries



## RE Future

- capacity building
- study tours, renewable energy courses and workshops, etc.



**RENEWABLE ENERGY FUTURE**  
*The Green Road from Denmark to the World*

[www.folkecenterevents.org](http://www.folkecenterevents.org)

## CEVELA

- capacity building
- Centre for Renewable Energies in Rural Areas
- Danish Association of SME
- Danish project



**CEVELA**

# For Europe and industrialised countries



- **Community Energy for the World**
  - information, energy policies, capacity building, research
  - tools to promote energy democracy, local development, local support to renewable energy projects and affordable energy prices
- **Power-to-Gas**
  - research, development, energy policies, support to SME
  - biogas for transportation and other applications
- **THYmøllen**
  - support to SME
  - internationalisation of the company

And others...

# For Africa and developing countries



## Sun Generator

- support to SME, innovation and development
- off-grid solar systems without batteries

*Expand your horizons, forget batteries, enjoy the sun power*



## Light Over Africa

- implementation, training, information, awareness raising
- electrification of rural areas, mostly schools and health clinics
- Mali Folkecenter, JEEP Folkecenter Uganda, Kologh Naba (Burkina Faso)

**1 school = 1,000 EUR**

Donations accepted

Office of JEEP Folkecenter



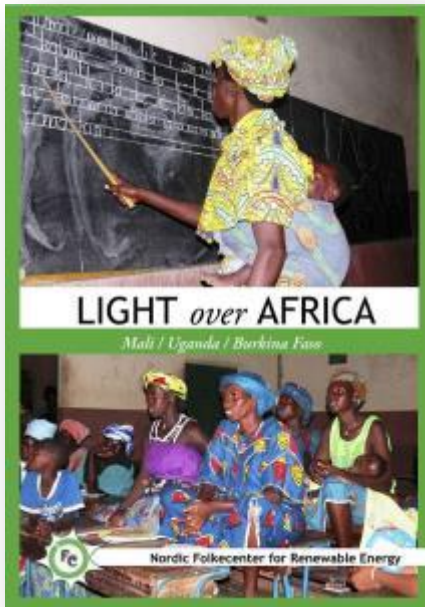
Light Over Africa

# For Africa and developing countries

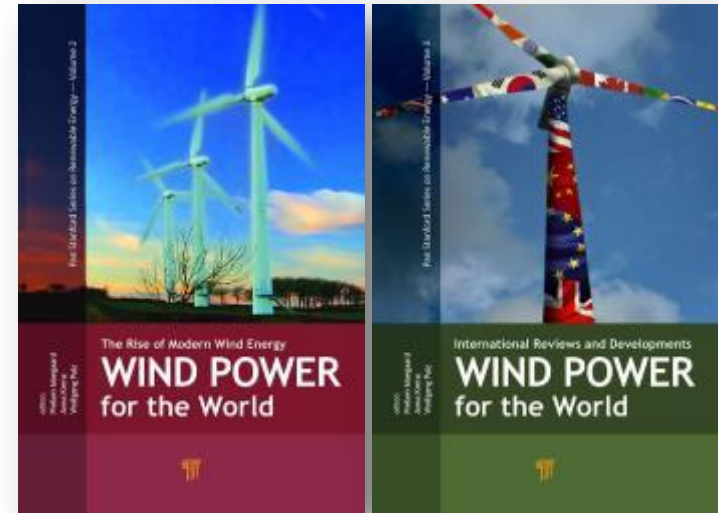


- **KAL**
  - implementation, training, information, awareness raising
  - knowledge, advocacy and lobbying for the benefit of renewable energy and climate change mitigation in Uganda
  - JEEP Folkecenter Uganda
- **EAP**
  - training, information, awareness raising
  - Environmental awareness
  - JEEP Folkecenter Uganda
- Innovative solutions to reduce electricity consumption in schools of developing countries where solar systems with batteries are used
- Training programmes for the acceleration of renewable energy integration and the promotion of universal energy access in West-African Countries
- Development of a mini-grid solution for a town in the northern part of Paraguay

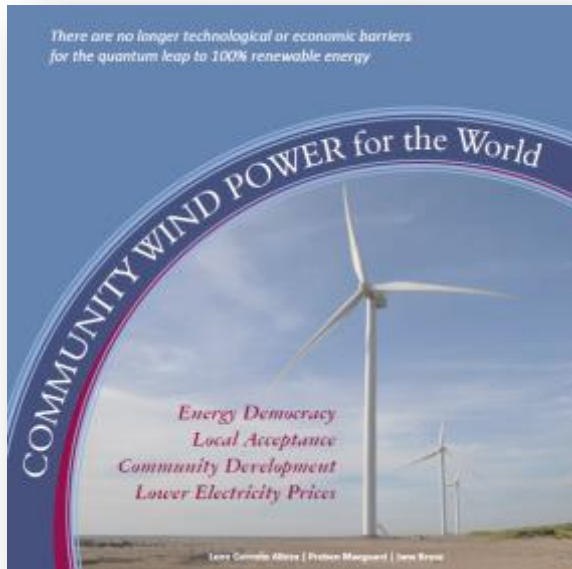
# PUBLICATIONS



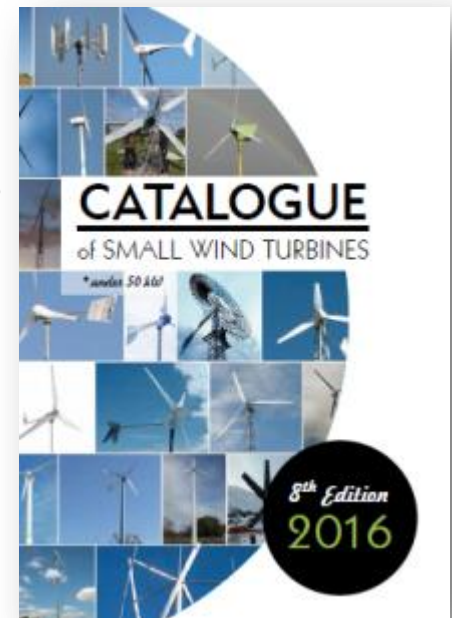
Books: Wind Power for the World 1-2



Book:  
Light Over Africa



Catalogue of Small Wind Turbines



Community Wind Power for the World

# **FOLKECENTER'S TRAINEE PROGRAMME**



- Since 1986 Folkecenter has hosted hundreds of trainees from all over the world
- Engineers, economists, PhD fellows, electricians, philosophers, students, professionals in the sector...
- All have the same goal: learning about renewable energy



# Nordic Folkecenter for Renewable Energy

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[www.folkecenter.net](http://www.folkecenter.net)

[www.folkecenterevents.net](http://www.folkecenterevents.net)



Nordisk Folkecenter

