



# INTECH CLEAN ENERGY

## Company Introduction



**INTECH**  
CLEAN ENERGY

**Christoph Vollmer**  
Intech GmbH & Co.KG

[www.intechcleanenergy.com](http://www.intechcleanenergy.com)

# Who we are

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Intech is your partner for environmentally friendly **energy production** solutions

- ⊙ More than 20 Years Experience with **renewables**
- ⊙ We offer engineering, energy efficiency assessments, feasibility studies turnkey projects
- ⊙ Our customers are municipalities, industrial clients (energy extensive), and the agriculture

Our mission is to optimize the profitability of your energy projects while preserving the **ecosystem**.

# International reach

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**Intech Clean Energy Inc.**

*Canada 2009*

**Intech GmbH & Co. KG**

*Germany 2000*

**Intech Clean Energy Ltd.**

*England 2011*

**Intech Clean Energy Pty Ltd.**

*Australia 2014*



# Our services

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## **STUDIES / CONSULTING**

- ⊙ Energy assessment studies
- ⊙ Profitability calculations
- ⊙ Implementation of renewables
- ⊙ Feasibility studies



## **Engineering**

- ⊙ Grid stabilization/Off-grid systems
- ⊙ Building services: heating, ventilation, cooling, electrical
- ⊙ District heating systems
- ⊙ Water purification systems



## **CONSTRUCTION MANAGEMENT**

- ⊙ Building supervision
- ⊙ Building inspection



# Our products

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## SOLAR ENERGY

Roof-Mounted PV  
Ground-Mounted PV



## OFF-GRID

Off-Grid  
Hybrid Systems



## Floating PV

Intech floaters



## AGRIVOLTAIC

Intech Agri-PV System

# Intech's contribution in Cape Verde

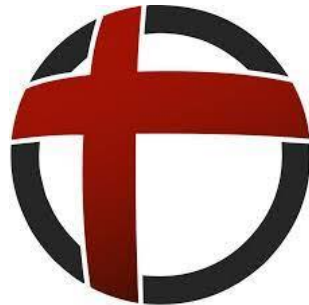
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- ⊙ Energy Containers
  - ⊙ Water pumping systems
  - ⊙ Water purification systems
- ⊙ Know-how
- ⊙ Experience
- ⊙ Quality and Reliability

# Project References

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# Off-Grid

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# All-in-One Solution Energy Container

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## PV PANELS

- Ground-mounted
- Roof-mounted
- Solar Trackers



## BACKUP GENERATOR



## MONITORING



## EXTRA FUEL TANK (OPTIONAL)



## WATER PURIFICATION (OPTIONAL)



Autonomous energy generator designed by Intech and adapted for any off-grid application

# Energy Container

Application: Off-grid

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Commissioning: 2022

System capacity: 9,9 kWp

Number of panels: 30

Inverters: 1 solar inverter / 6 Off-grid inverters

Back-up generator: 20 kW

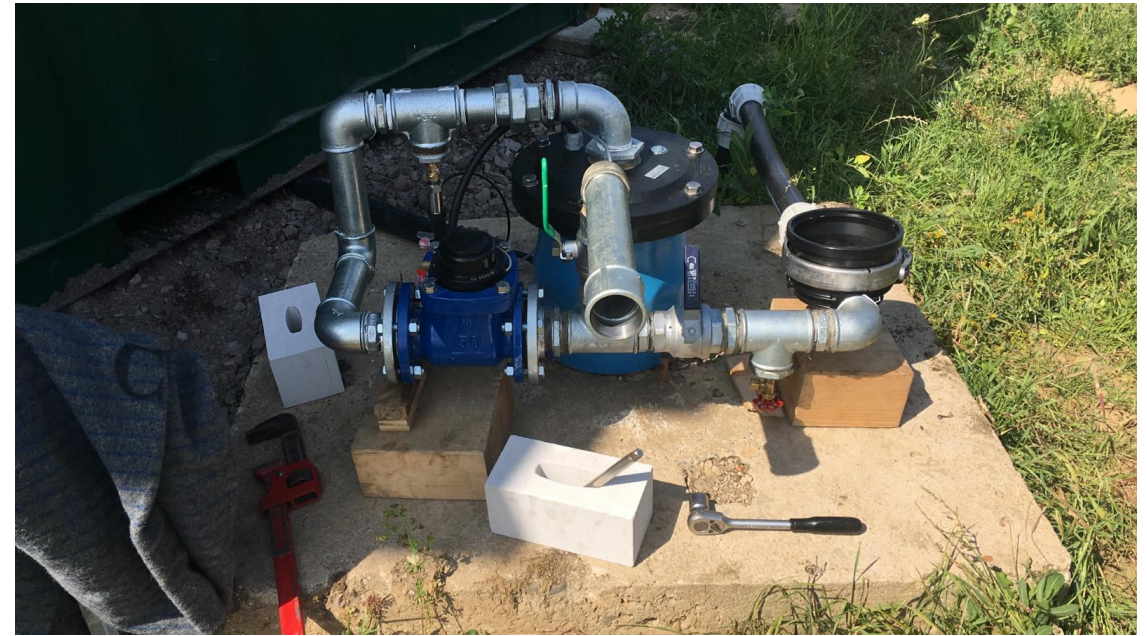
Batterie capacity: 30.8 kWh



# Energy Container and Solar Pump

Application: Off-grid

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Commissioning: 2022  
System capacity: 4 kWp  
Number of panels: 12  
Solar pump: 1,8 kWp

# Water purification system

Application: Grid-connected

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Commissioning: 2013  
System capacity: 8,8 kWp  
Number of panels: 42  
Battery capacity: 55 kWh  
Solarpumpe 1,8 kWp

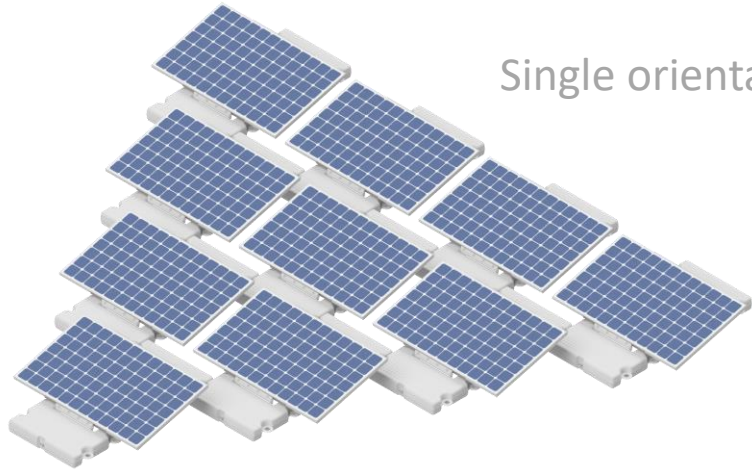


# Intech's floater

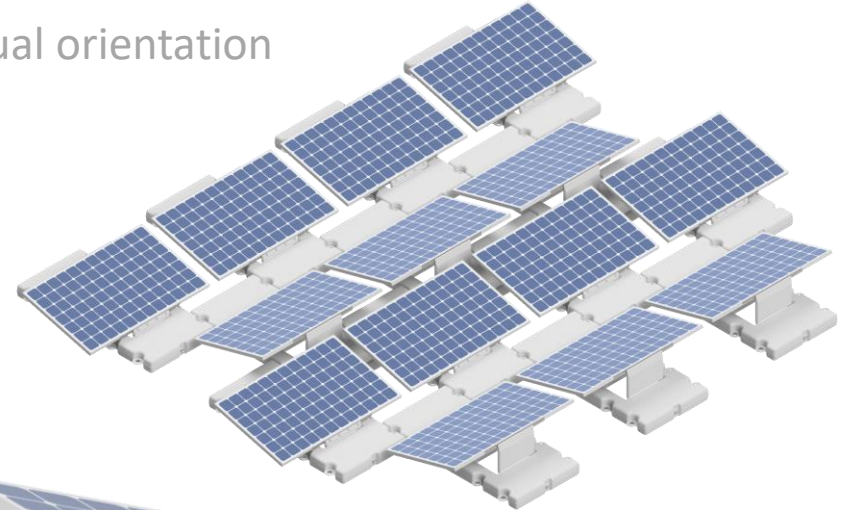
## One floater – all options

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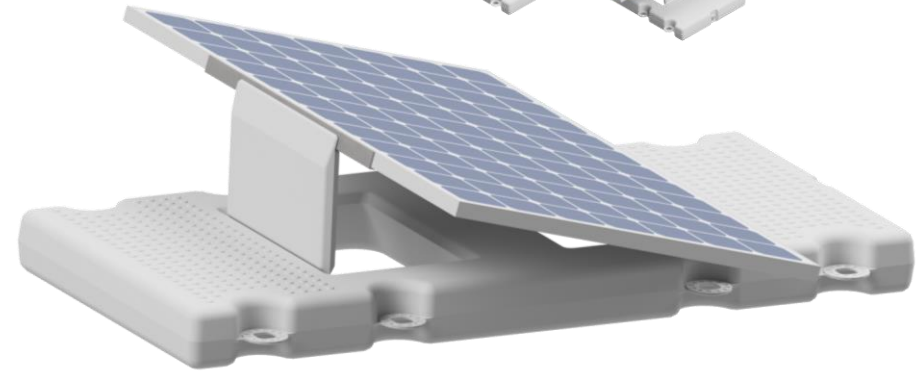
Single orientation



Dual orientation



Front Side



Back Side

# Advantages of our Floating\_solar\_systems

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Easy maintenance via  
integrated footbridge

Reduced algae growth  
and water evaporation

Structural design  
approved to withstand  
rough conditions

Self cleaning of panels  
thanks to the 15° inclination



Generates more electricity  
than conventional systems

Suitable for drinking  
water reservoirs

1,3 MW/hectar

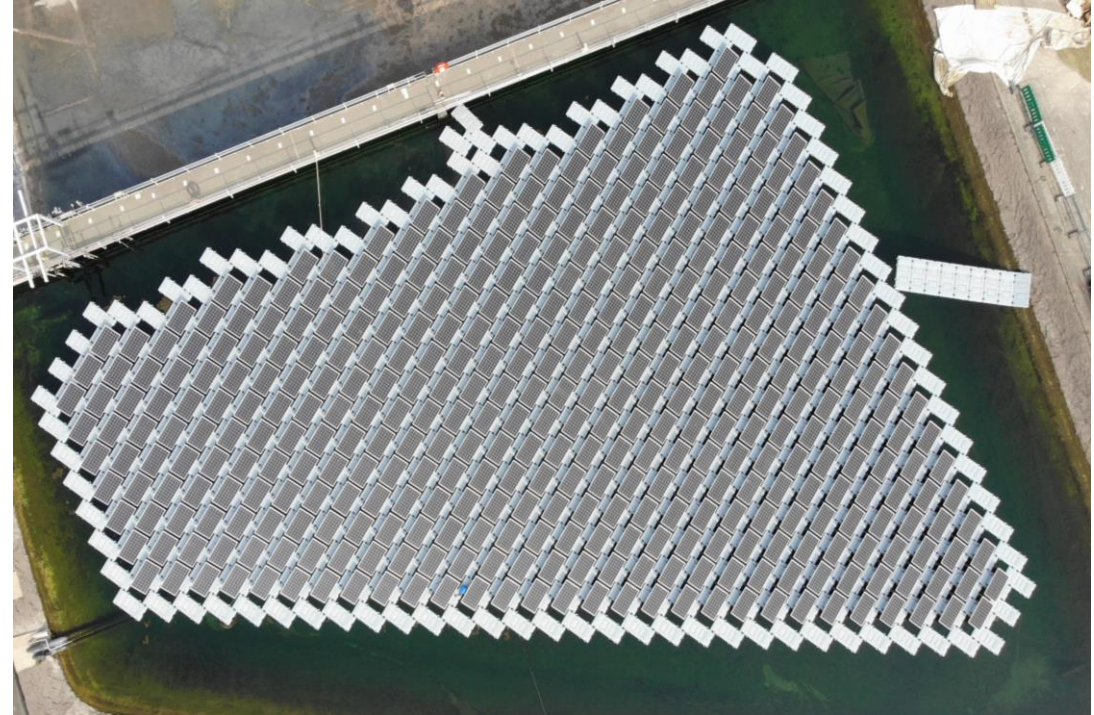
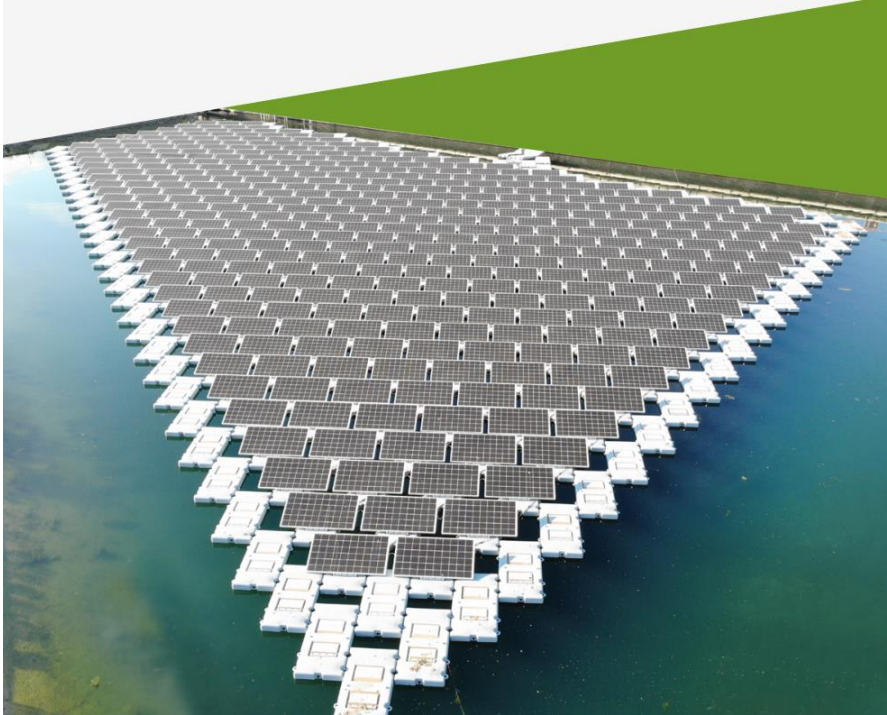


# Project Reference

## Installation on a retention pond

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Power: 135 kWp  
Number of floats: 635 floats  
Number of panels: 409  
Commissioning: 2021



# Project Reference

## Solar pumping project

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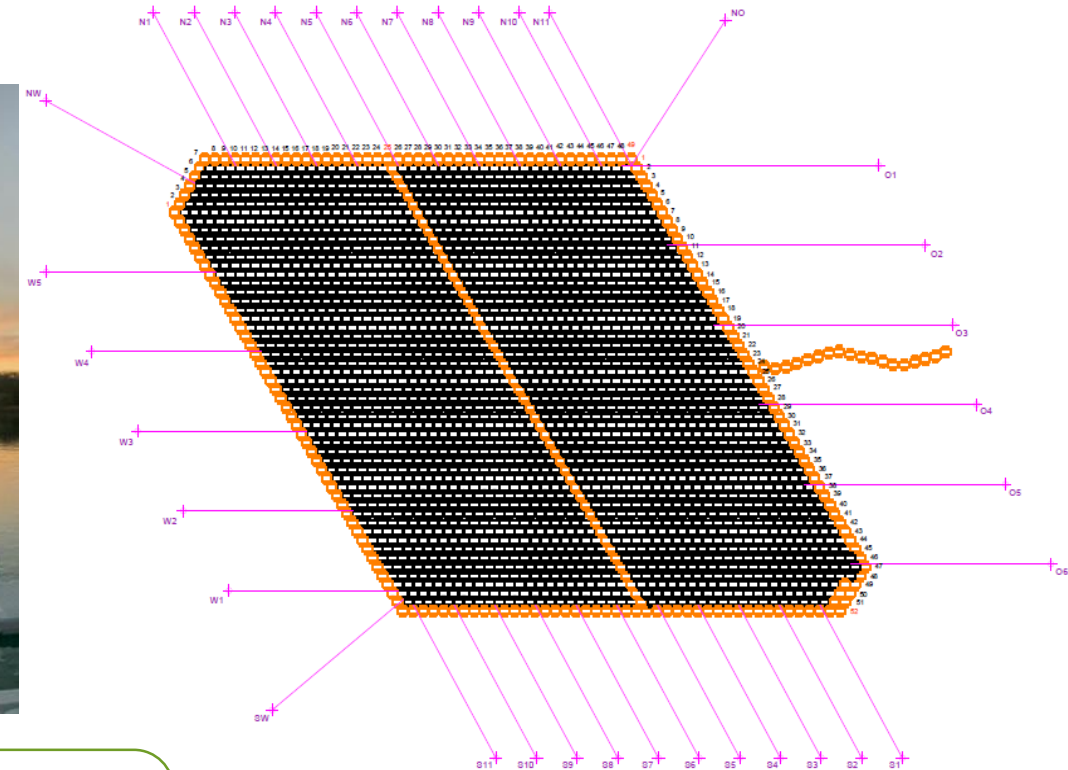
Power: 5.3 kWp  
Number of floats: 16 floats  
Number of panels: 16  
Commissioning: 2021



# Current project

## Installation on the Waldsee Germany

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Number of floats: 2527  
Number of panels: 2272  
Planned commissioning: December 2022

# THANK YOU FOR YOUR ATTENTION

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