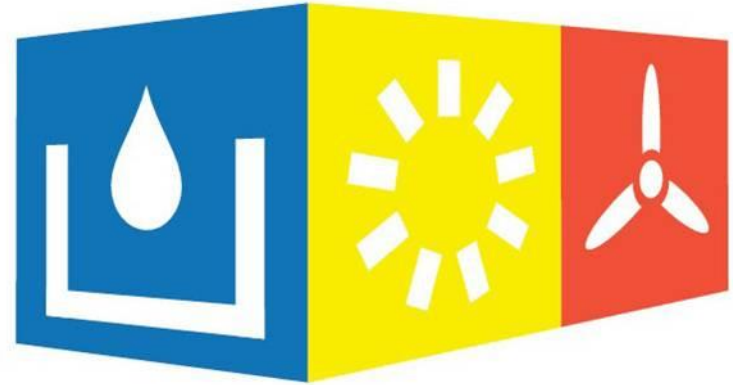


TOMENSO – TOMORROW'S **ENERGY** SOLUTIONS

power&Life
container



Distributed Renewable Energy

www.TOMENSO.com

The Environment

- Worldwide, 2 billion humans have no access and another 2 billion have only limited access to electricity
- Worldwide, 1.5 billion humans have no access to potable water
- Worldwide, only 27 % of people living in rural areas have direct access to water
- In 2021, 5.21m towers exist in the world, with an annual 4% growth rate
- 88% of off-grid and bad-grid towers run on diesel, amounting to 309,000 towers
- Only 41,000 off-grid and bad-grid towers are fully powered by renewable energy
- 6.91m metric tonnes of CO₂e/year from diesel generators of those towers

The "Power&Life Container"

- Independent and stand-alone energy supply
- Self-sufficient (renewable) energy 24/7
- Low operating costs ensure cost efficiency
- Minimal supply needs simplify supply logistics
- Energy efficient water treatment/ desalination
- Versatile modular design
- Mobility enhanced using a standard shipping container

"Power&Life Container", system components

- 10 / 20 / 40-foot shipping container – housing the entire system
- PV power plant – mounted on a customized versatile rack (> 7kW)
- Solar thermal power plant – container roof mounted (> 5 – 30 kW)
- Wind power plant – small wind turbine with high efficiency (5-60 kW)
- Energy storage – (Battery or solar thermal) ensures constant energy supply
- Control system – 24/7 active management of all system components
- Optional: Water treatment unit (3 - 50 m³ p.hr.)
- Optional: Water desalination unit (0.5 - 5 m³ p.hr.)
- Optional: (Bio-)Diesel gen-set – compensating power peaks

""Power&Life Container"", unique proposition

- Low cost of operation – through the use of renewable energy (minimal fuel and supply logistics)
 - Reliability – combination of state-of-the-art modules ensures uninterrupted power supply
 - Quality assurance – all key components certified
 - Eco-friendly and efficient – meets or exceeds established pollution control standards
 - Clean, tidy and quiet – can be used in residential areas and near hospitals
 - Mobility – mobile, flexible and adaptable
 - Versatile – can be operated under extreme climatic conditions
 - Modular design – system can easily be upgraded
-

"Power&Life Container", fields of application

Energy supply in off-grid locations

Energy and potable water supply in locations that have no connection to the national grid

Energy supply back-up system

Uninterruptible and climate friendly power back-up in areas of weak grid supply

Disaster / relief applications

Rapid, mobile and stand-alone energy and potable water supply in disaster situations

"Power&Life Container", customer groups & business models

Customer Groups

- Communities
- Governments
- Foundations
- Industry
- NGOs
- University / Research

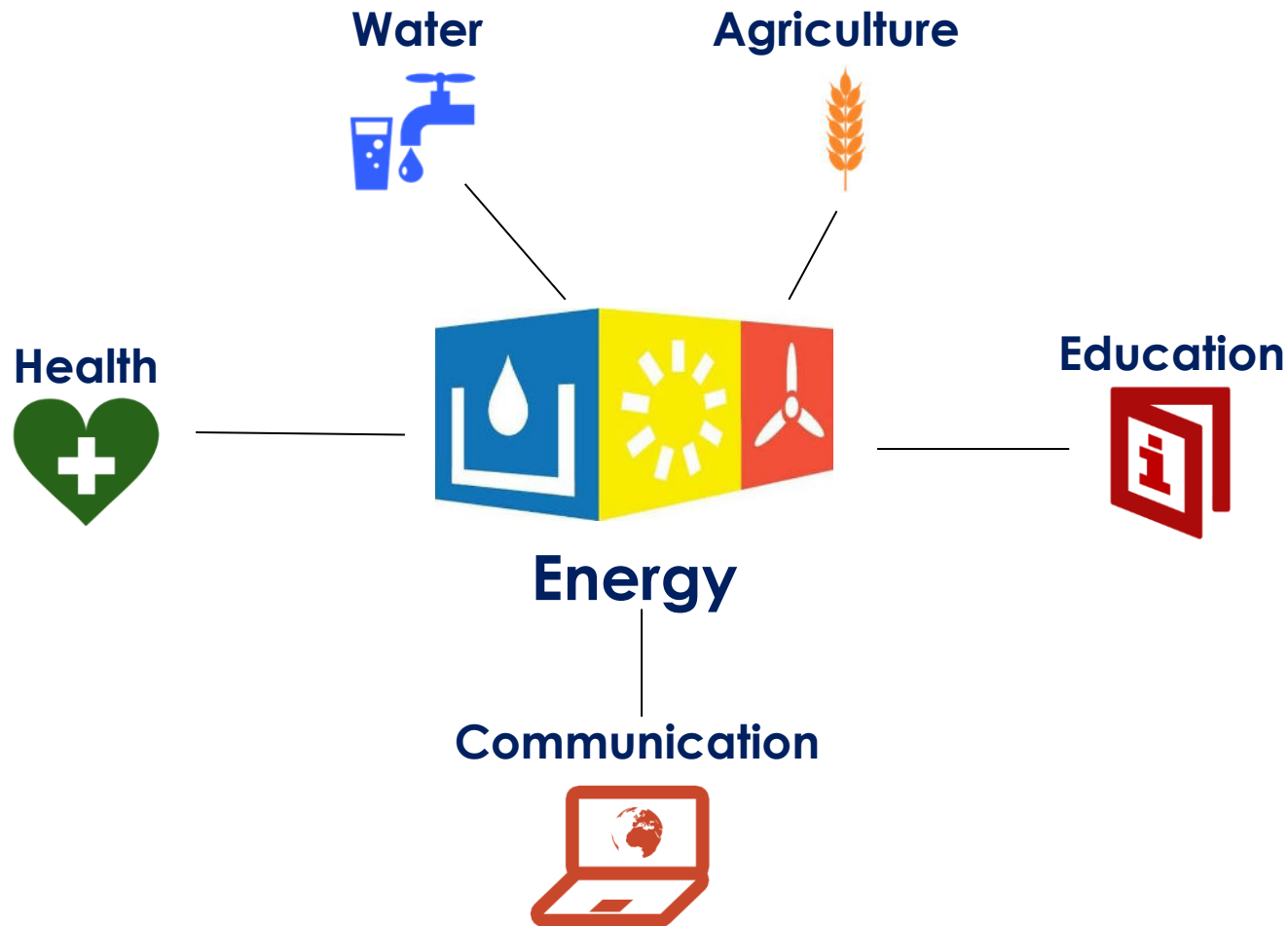
Business Models

- Energy as a Service (EaaS)
- Leasing / hire purchase
- Direct sales
- Sale via dealers
- Sale, white label



Energy, potable water and reliable communication need to become bankable products & services.

""Power&Life Container"" – The Nucleus



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