



www.aora-solar.com

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05-07 April 2016

System Overview

Solar-Biogas

Plans for Africa



Market segment



PV



CSP



Residential PV

Cheap
Scalable
Night time



Aora Solar

Affordable
Scalable
Hybrid operation
24/7 Utility grade
Heat + Electric



Large Solar Thermal

Scale
Investment
Long lead time

Modular



Key Facts

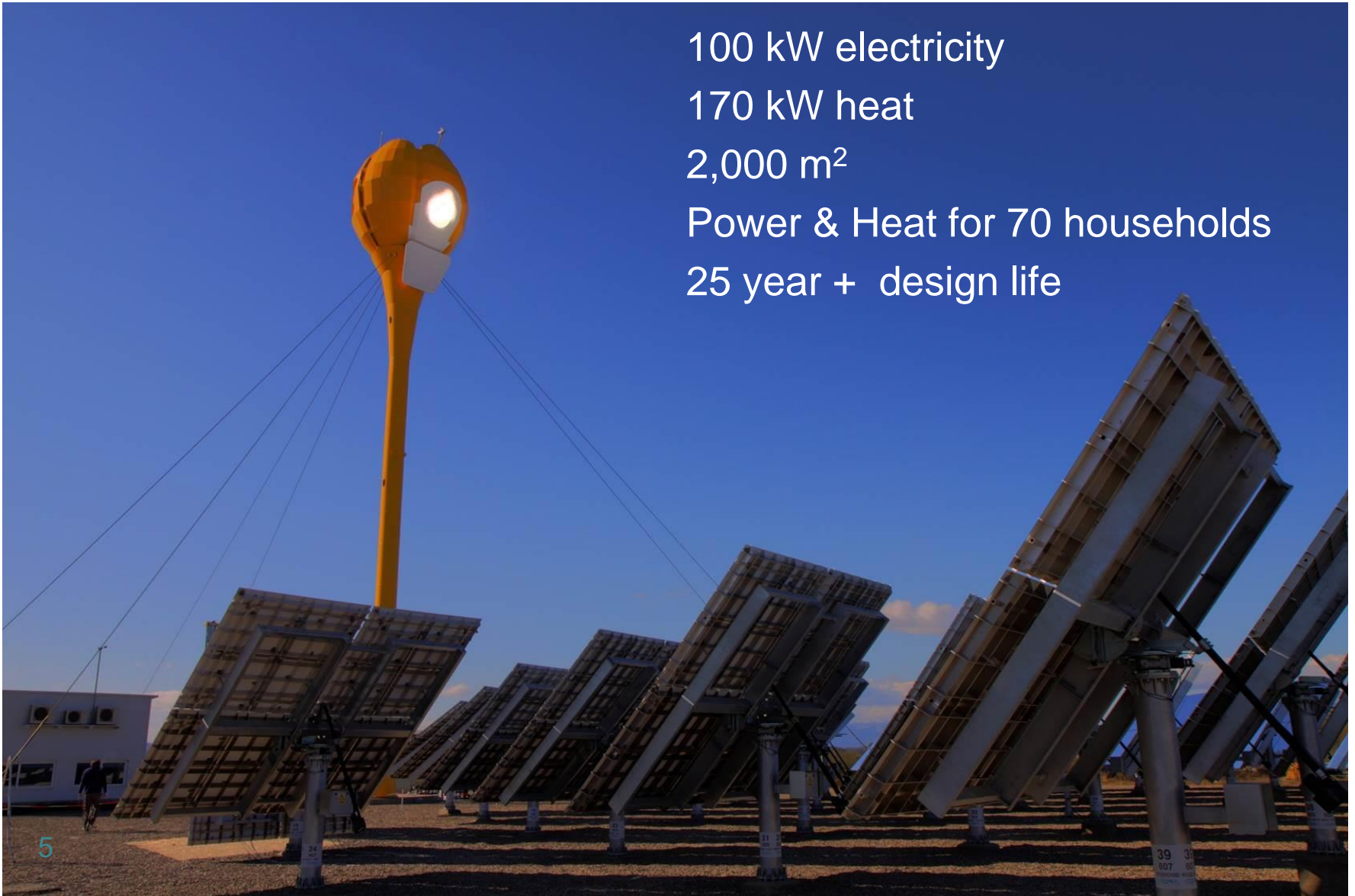
100 kW electricity

170 kW heat

2,000 m²

Power & Heat for 70 households

25 year + design life



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Rural Off-grid



Jordan-Israel Valley

Date fields

Population: 250 people

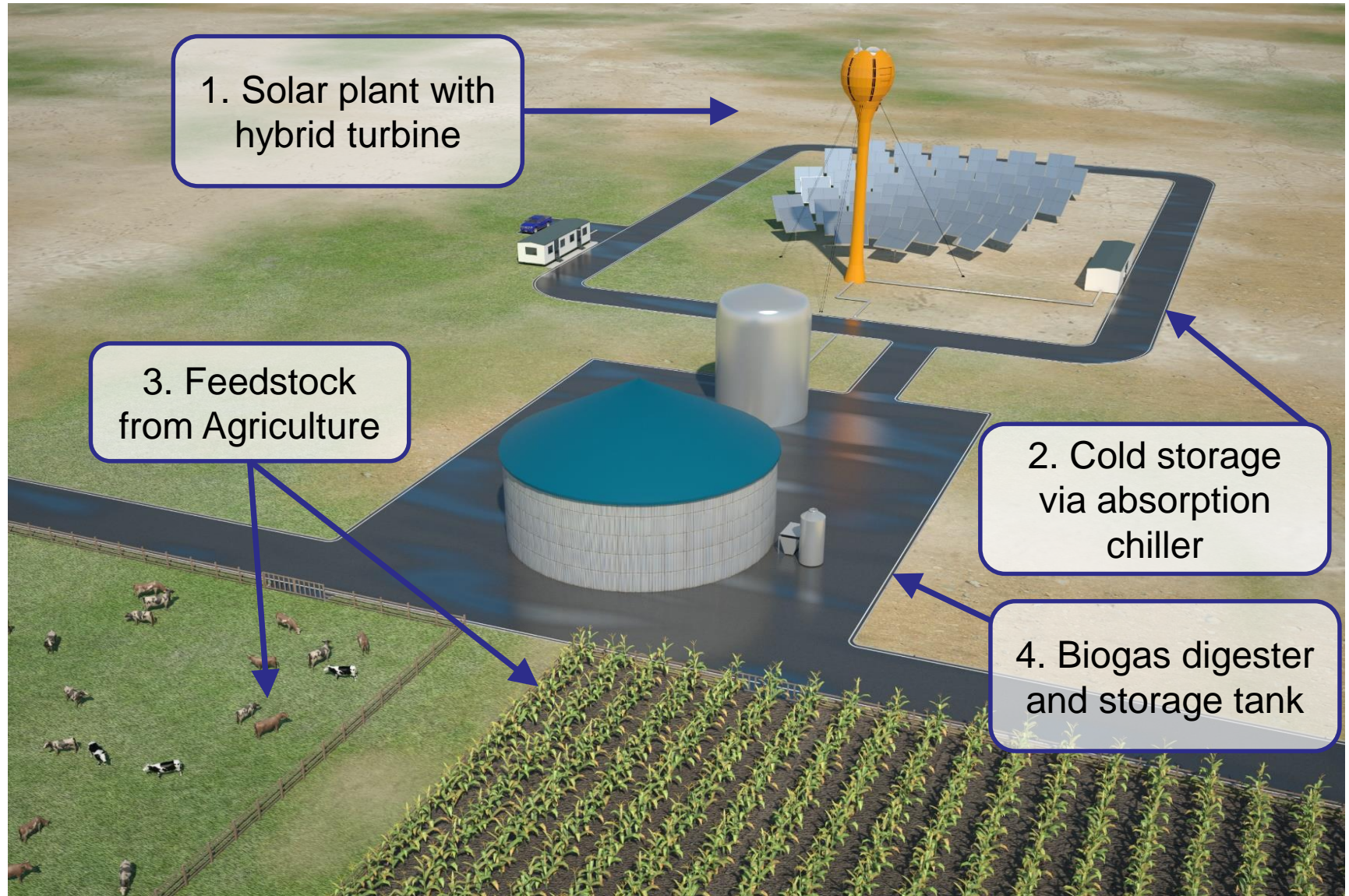
Dairy cows

Solar panels

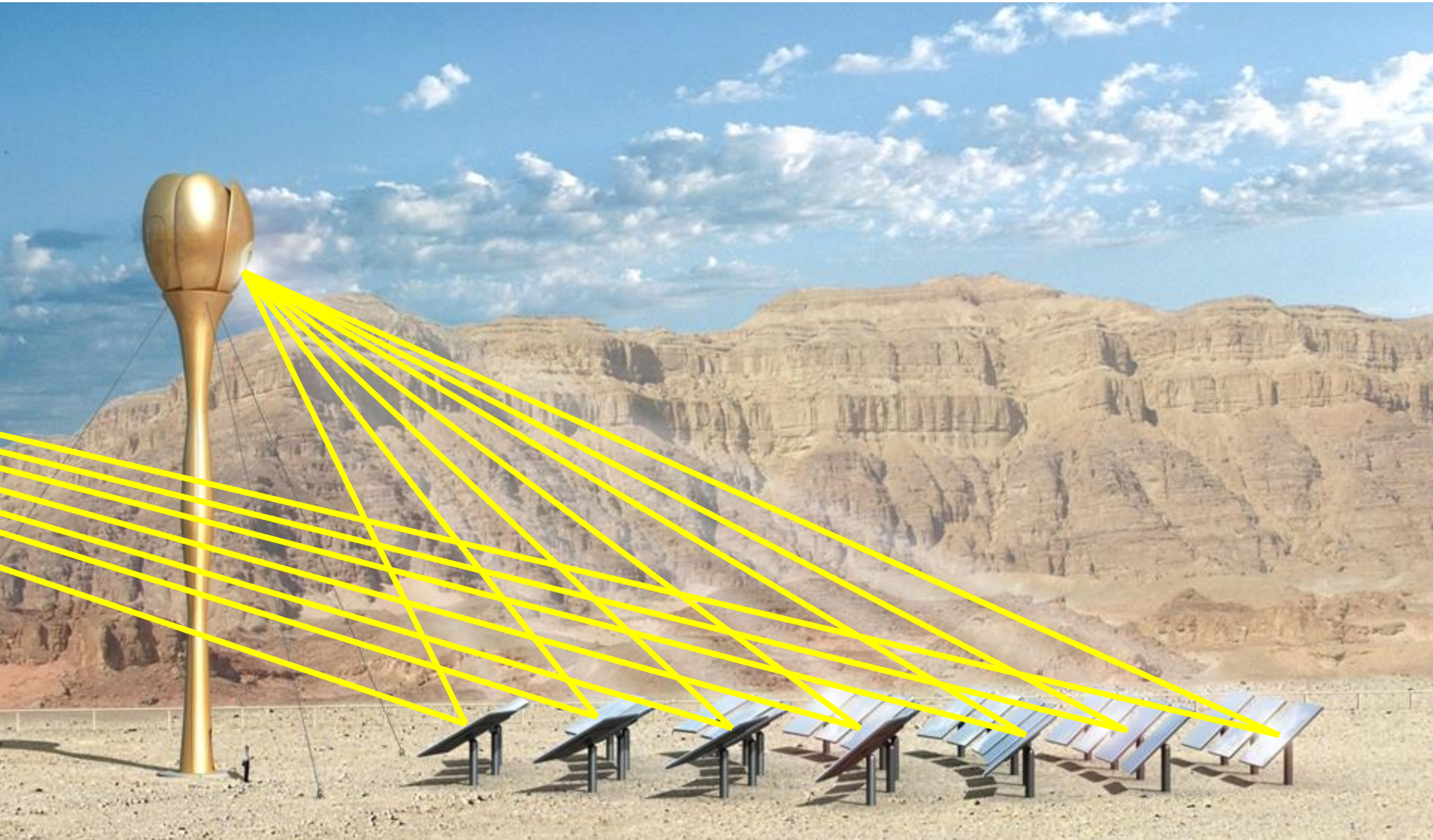
AORA unit #1

Kibbutz Samar (pop.250)

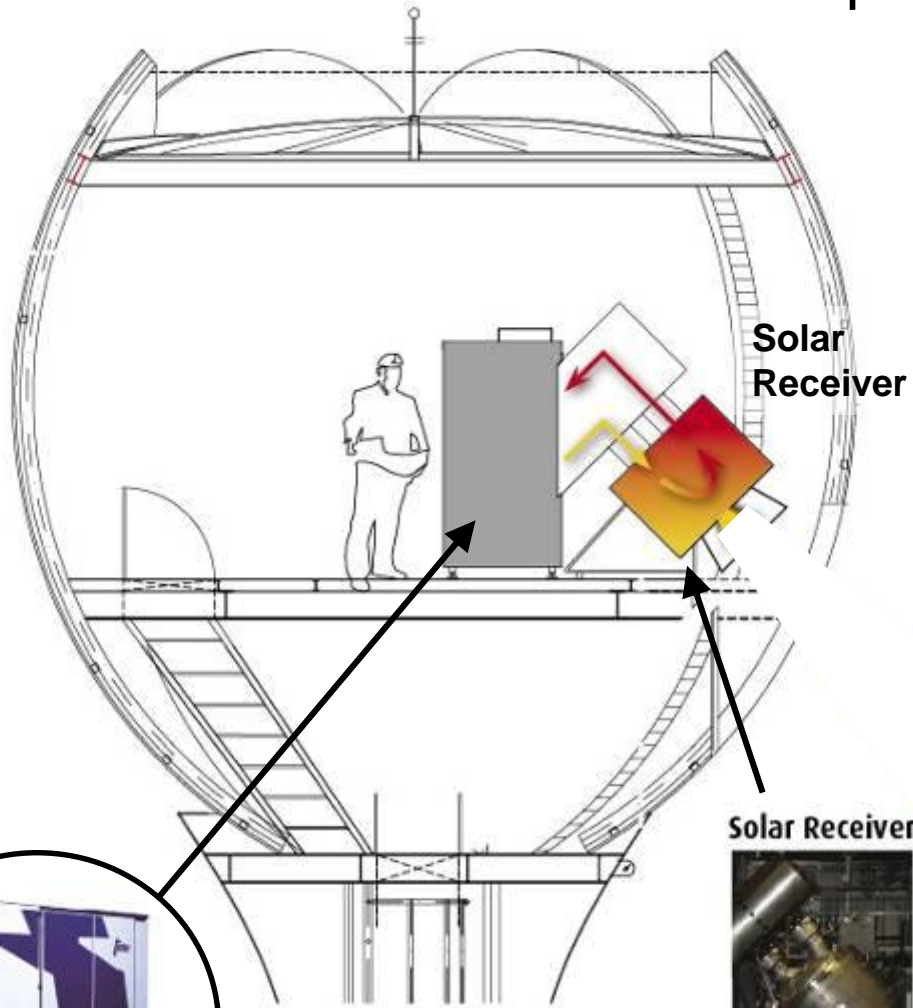
Hybrid (Biogas + Solar)



Solar Operation Principle



Solar Operation Principle



Solar Receiver



Micro Turbine

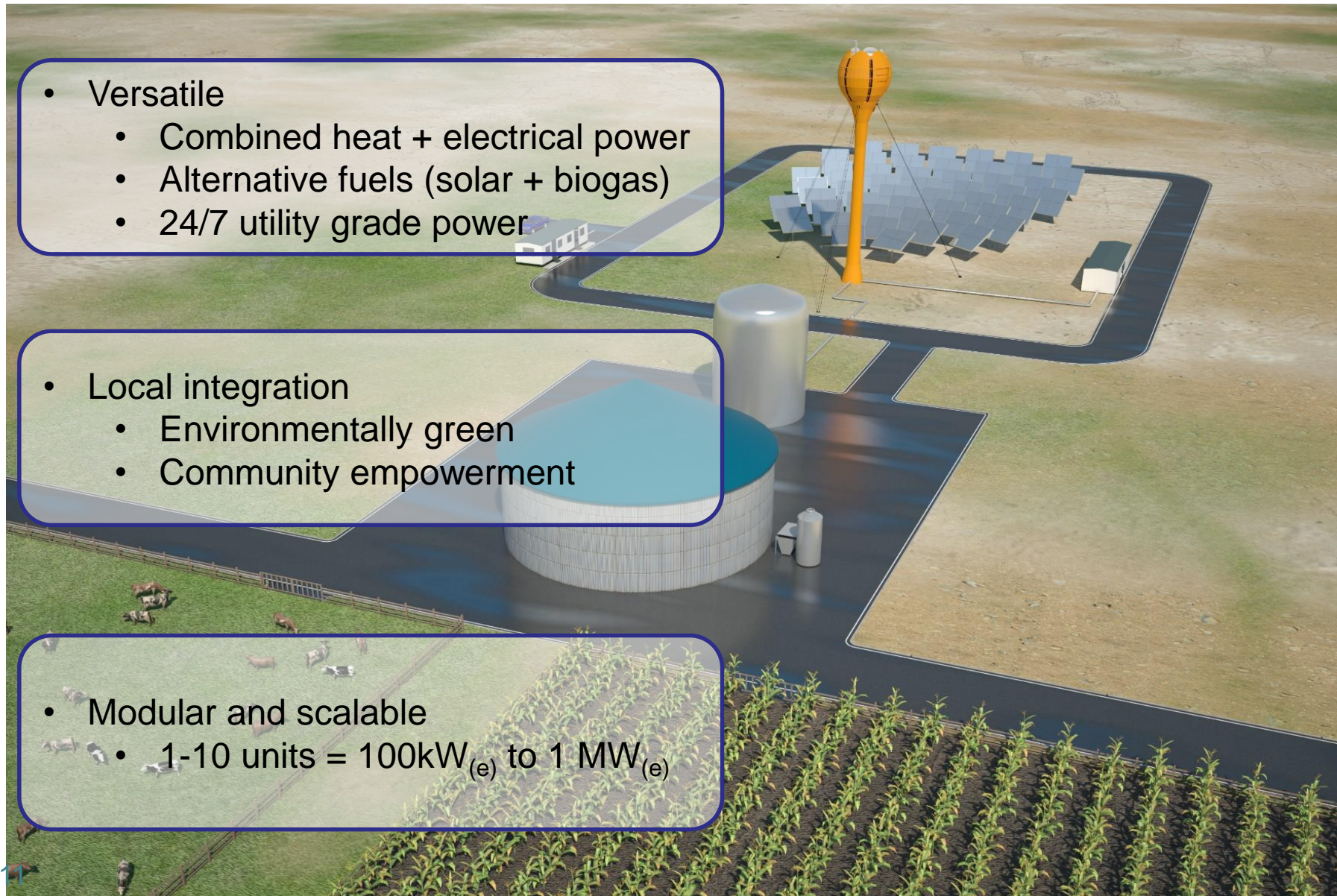
Key Points



- Versatile
 - Combined heat + electrical power
 - Alternative fuels (solar + biogas)
 - 24/7 utility grade power

- Local integration
 - Environmentally green
 - Community empowerment

- Modular and scalable
 - 1-10 units = $100\text{kW}_{(e)}$ to $1\text{ MW}_{(e)}$



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Plans for Africa



Key Value Proposition: Economic and Social

Promoting local ownership and improving sustainable livelihoods

- Energy independence
- Industrial development
- Local manufacturing
- Knowledge sharing
- Strategic partnerships

Energy

- Electrical
- Heat

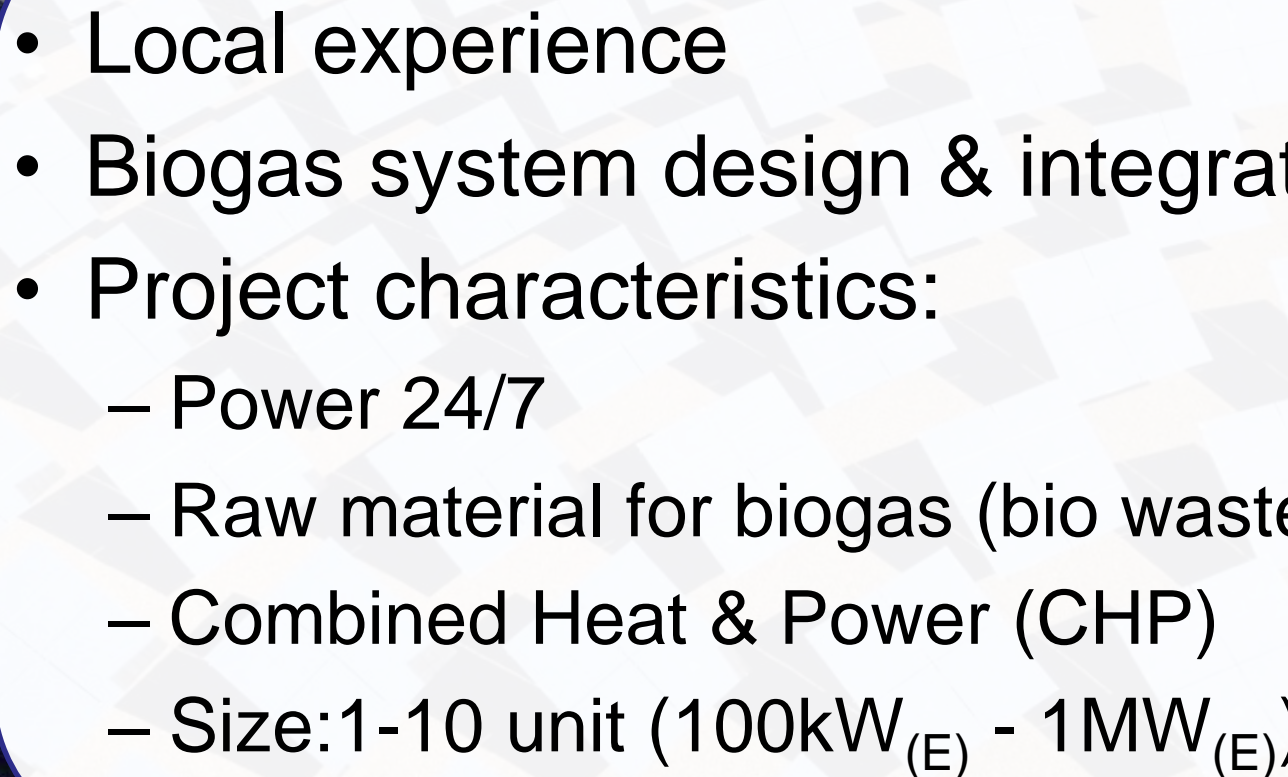
Market Segments

- Agriculture
- Industry
- Community buildings
- Institutional buildings

Applications

- Off grid/ On grid
- Chilling
- Heating
- Drying
- Power for machinery

Developing Ethiopian partnerships

- 
- Local experience
 - Biogas system design & integration
 - Project characteristics:
 - Power 24/7
 - Raw material for biogas (bio waste)
 - Combined Heat & Power (CHP)
 - Size: 1-10 unit ($100\text{kW}_{(E)}$ - $1\text{MW}_{(E)}$)

Thank You 😊

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