



# Multiconsult - Solar, Smartgrid and Storage

Service offerings | 2024



# Multiconsult Group

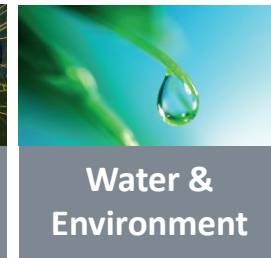
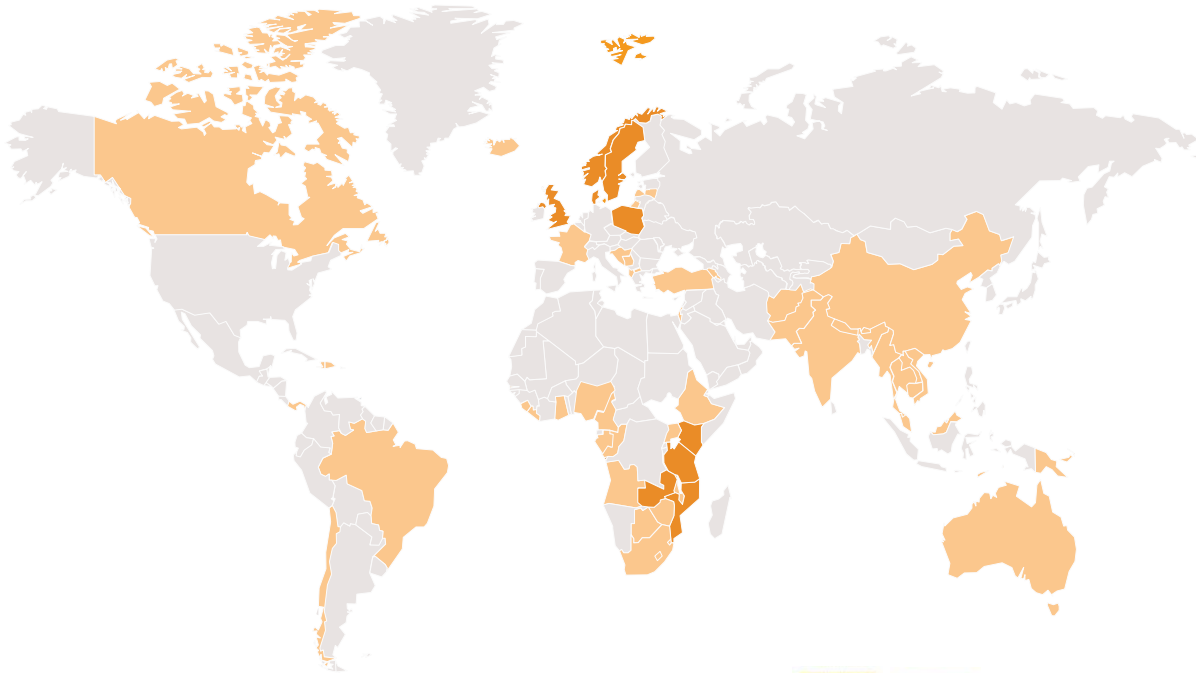
## Global Knowledge - Local Experience

■ **1908**  
Founding Year

■ **3,700**  
Employees

■ **USD 453 million**  
Net Operating Revenue (2023)

■ **Oslo**  
Headquarter

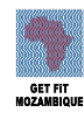


### Delivering multidisciplinary services

Light orange square: Ongoing or completed projects

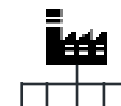
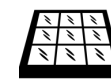
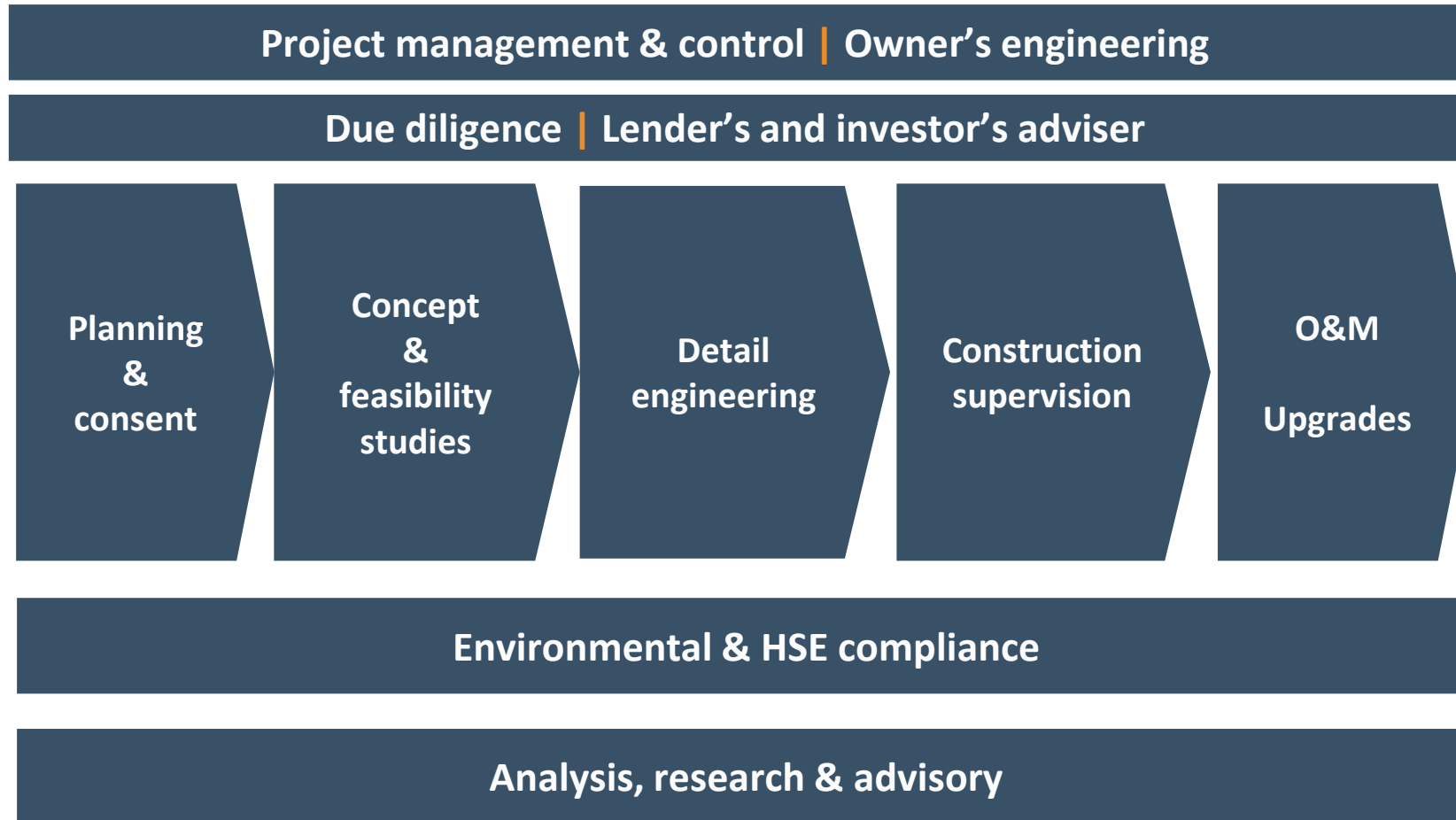
Dark orange square: Permanent office

2 Active in Africa for more than 50 years



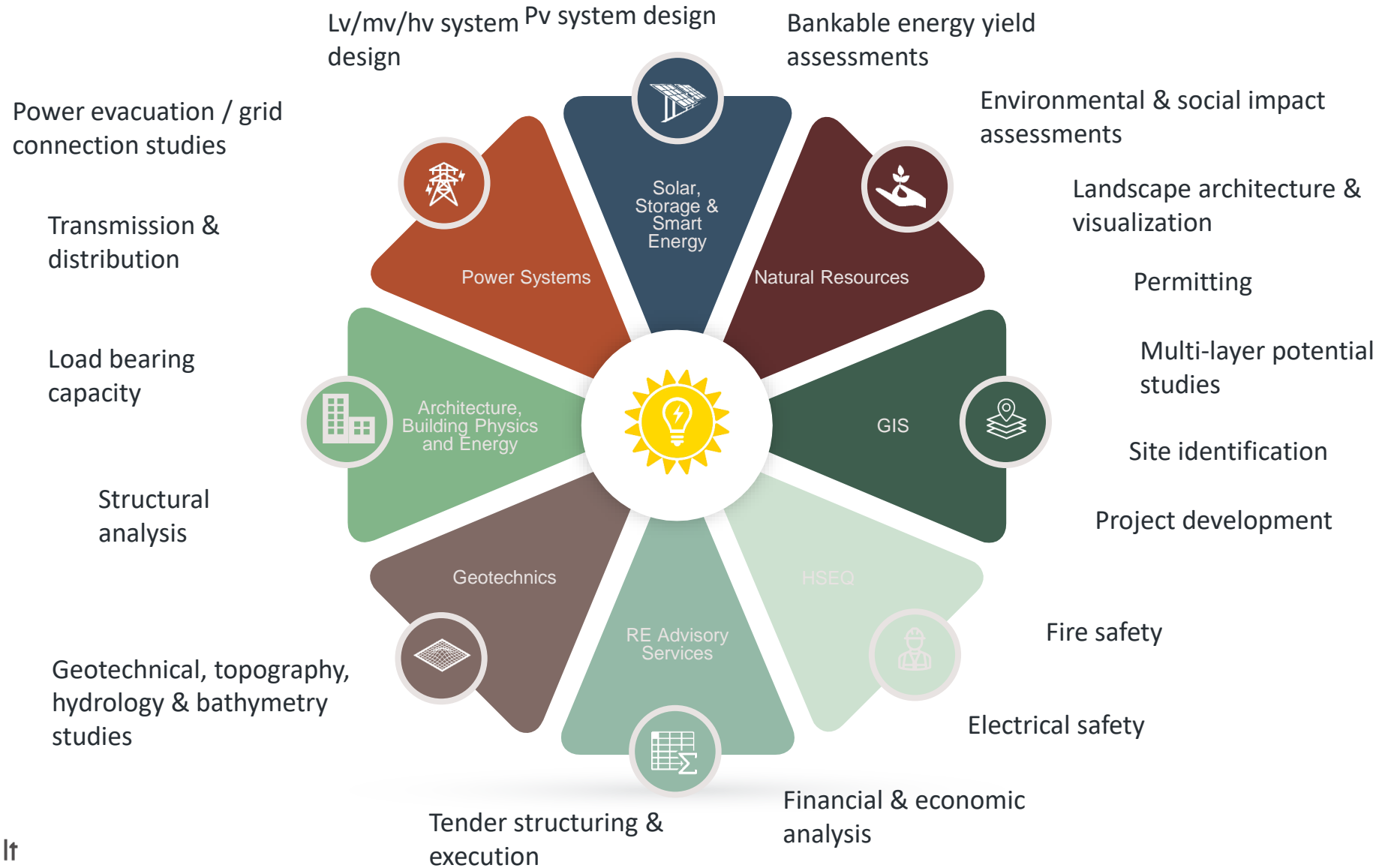
# Renewable energy business area

Support throughout the full value chain and covering all project phases



# Multidisciplinary Support

## One-stop Shop For Solar PV



# Solar, Storage and Smart Energy Applications

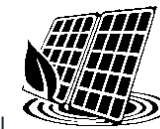
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«Unlocking clean and affordable solar energy – everywhere»



## Ground-mounted utility-scale PV systems

From detailed engineering to third party verification. We are involved in all phases from design to installation and maintenance. Our services ensure bankable quality without compromising the environment.



## Floating solar PV

Market leader in the niche of FPV. We are experienced in market / technology studies, system design, hybridization and project procurement services.



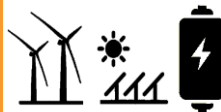
## Smartgrids and flexibility

At the forefront of distributed generation, smart control and flexibility. Providing advice on load requirements & generation potential. Control systems, power trading and value added by flexibility services.



## Rooftop solar PV

From feasibility to commissioning, Multiconsult's long experience in commercial and industrial rooftop solar PV also focuses on mechanical and electrical interfaces as well as fire and electrical safety.



## Hybrid systems

From small off-grid systems to hybridization of utility-scale solar, hydro and wind plants. Multiconsult can help develop the business case, assure system compliance, design the control hierarchy and procure the plant.



## Building-integrated PV

Architects, building specialists and solar experts work hand in hand to provide aesthetic and efficient energy solutions.



## Microgrids and rural electrification

Micro and mini grid developments where an integrated view of solar, smart energy and storage is crucial to success.



## Infrastructure-integrated PV

From carports to sound barriers for highways or railways, Multiconsult can help make full use of solar PV's flexibility.

# Solar, Storage and Smart Energy Services

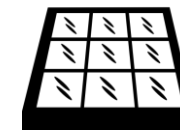
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«Solar PV and related services to design the energy systems of tomorrow – today»



## Strategic advisory

Guiding companies and public sector through strategic choices related to positioning and technology in solar, storage and smart energy.



## Project development

Providing a full suite of services for project developers seeking technical and commercial support



## Training courses and capacity building

Tailored lectures and seminars to enable clients to understand their requirements, model their own systems and procure competitively priced systems.



## Engineering design and optimization

From concept design to ready-to-build. Techno-economic optimization.



## Due diligence

Screening, due diligence and deal structures to optimize value creation



## Procurement support

Defining the procurement needs and developing the necessary documentation within solar, storage and smart energy.



## Analysis and studies

Technical and commercial analysis – and a stepwise plan for obtaining your ambitious goals. Concept studies, design of solutions, bankable full feasibility studies and technology analysis.



## Operations & maintenance

Maximize the performance and longevity of your solar PV plants while enjoying peace of mind. Comprehensive O&M services that ensure optimal energy production, swift issue resolution, and regular inspections.

# Utility-scale Ground Mounted PV

## From Early Phase To Implementation

Selected references



**GET FiT Uganda:**  
construction and commissioning supervision of two 10 MW plants



**Norway:**  
FS for innovative Agri-PV and Eco-PV solutions



**Suriname:**  
Site risk assessment for hybrid solar and hydropower



**Eight license applications** to the Norwegian regulatory authorities in the last year

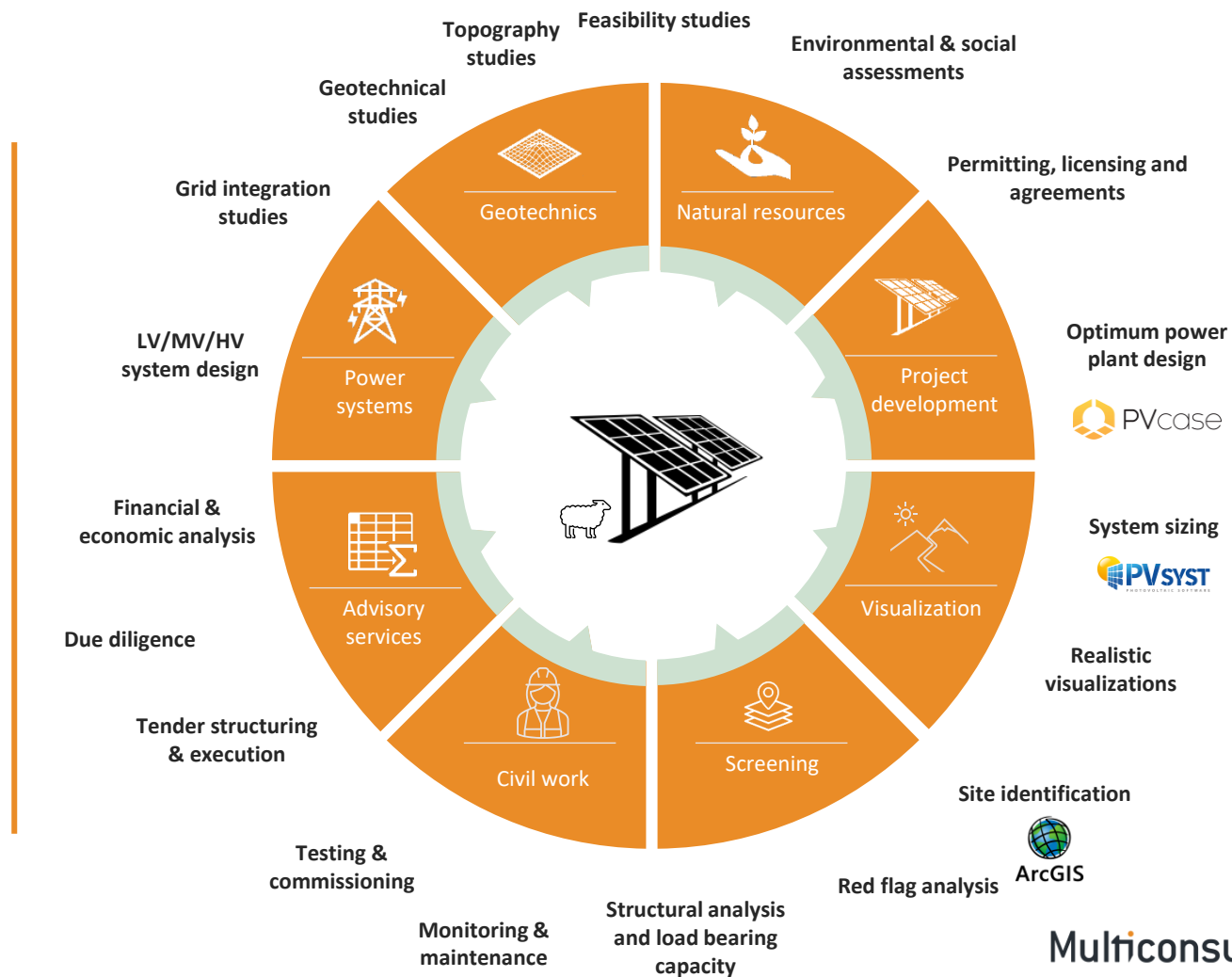


**Ethiopia:** ESIA for a 100 MWp plant



**Ukraine:** project development and engineering for a total of 300 MWp (six projects)

## Multidisciplinary support





# Solar PV On Buildings

## Building Adapted PV (BAPV) & Building Integrated PV (BIPV)

Selected references



**Asko and Unil:**  
Owner's Engineer for a total of 12 MWp on C&I rooftops



**Strand church: 1<sup>st</sup>**  
Norwegian church with BIPV, design and procurement



**Empower NE:**  
Technical and E&S DD for solar energy projects in Africa



**Brynseng school:**  
BIPV facade: design, procurement and construction supervision



**Clog warehouse:**  
Design for a total of 3.7 MWp on rooftop and facade

### Key value proposition







# Smartgrids and Flexibility

## At the Forefront of Distributed Generation

Selected references



**Login Narvik:** industry area energy solution



**Filipstad:** holistic energy solution for new established suburb

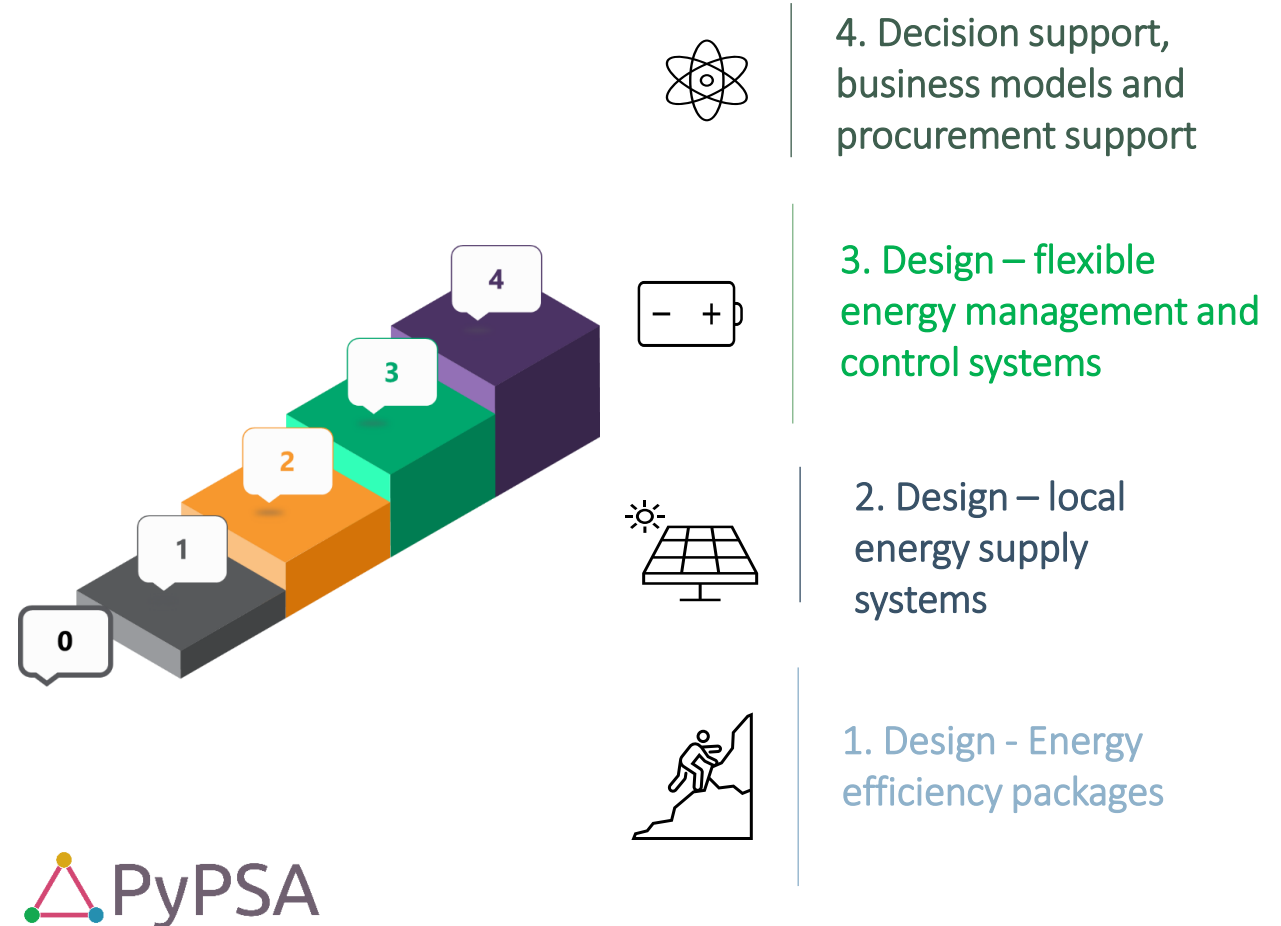


**Ecofisk:** holistic energy solution for the aquacultural industry



**Finnøy:** planning energy transition for entire island

Key value proposition



0 Mapping base case CO<sub>2</sub>-emissions and energy / power demand

# Microgrids

## From Programme Implementation to Design & Technical DD

Selected references



**Cameroon:**  
technical DD  
microgrid rural  
electrification



**Zanzibar:**  
design and  
procurement  
microgrid island  
power system



**Isfjord radio,  
Svalbard:** FS,  
design,  
procurement  
and  
commissioning

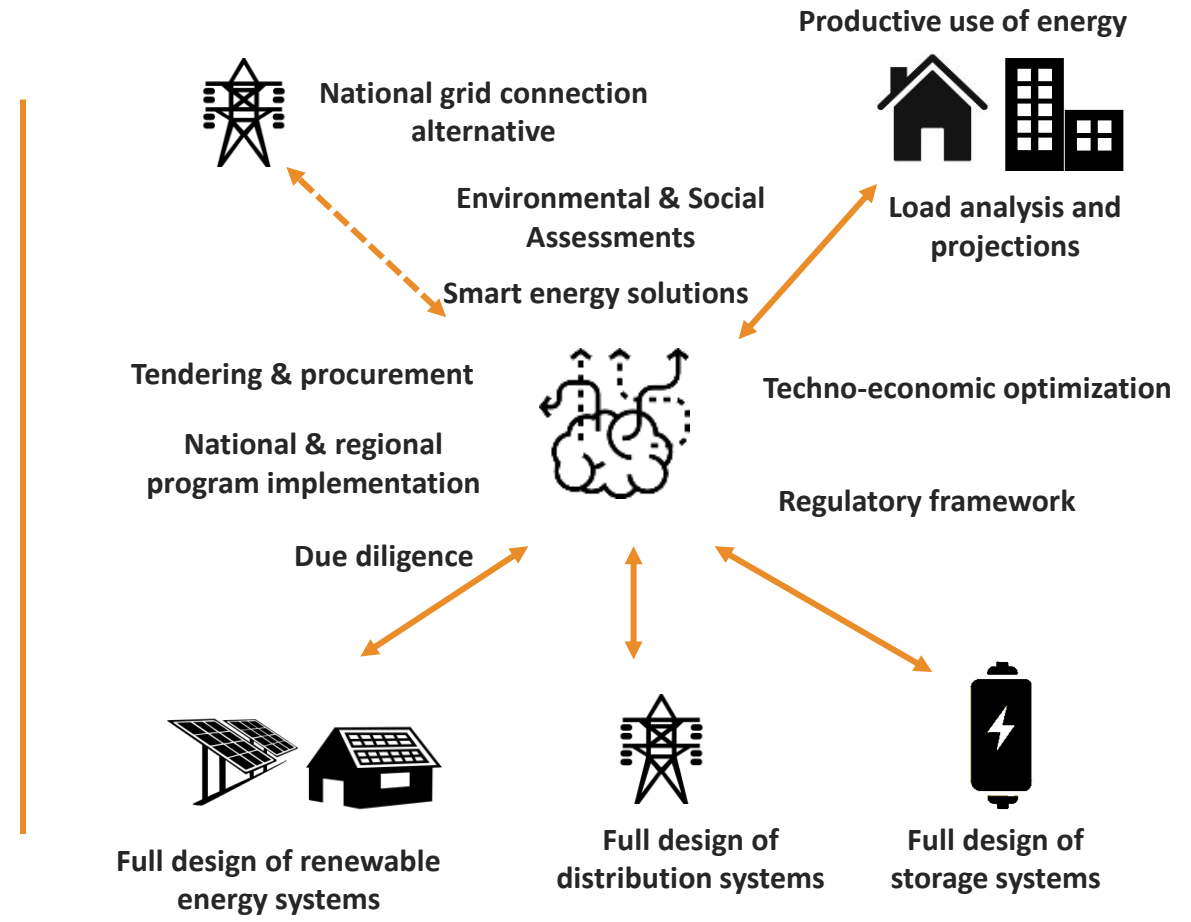


**Green People's  
Energy for Africa  
– Mozambique  
(KfW):**  
implementation  
consultant for  
development of  
microgrids



**Seychelles:**  
technical DD  
microgrid island  
power system

Key value proposition



# Battery Energy Storage Systems (BESS) and Storage

## From Early Phase To Implementation

Selected references



**Longyearbyen, Svalbard:** design, procurement and construction supervision of 8 MWh/6 MW



**Evenstad, Norway:** design, procurement, commissioning 200 kWh/120 kW

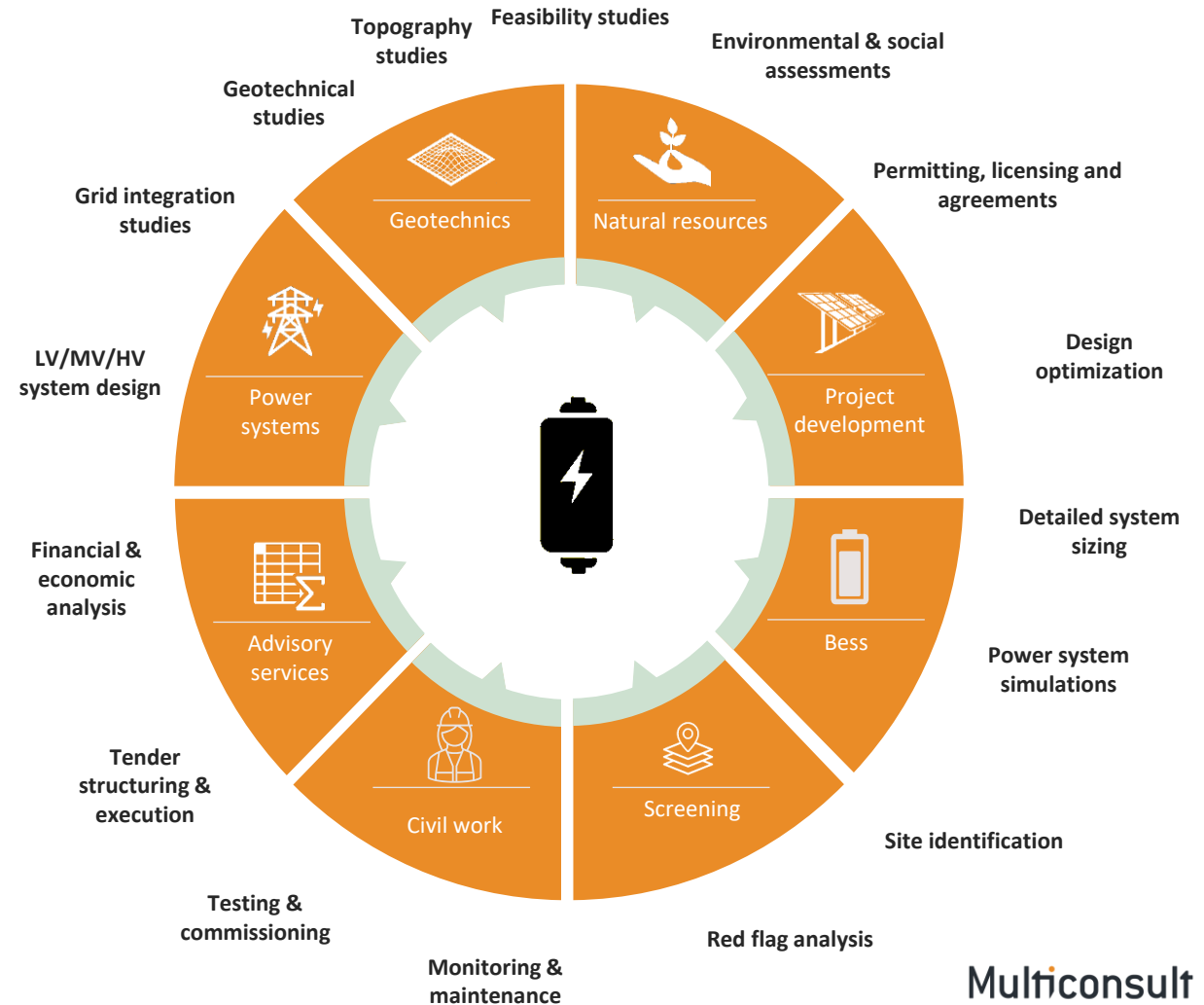


**Peak Shaper:** strategic business development and technical advisory



**Senja, Norway:** design and procurement 3 MWh/3 MW

### Key value proposition

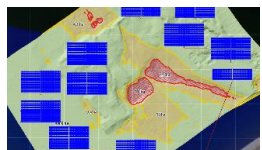




# Floating Solar PV

## One-stop Shop, From Early Phase To Implementation

Selected references



**Ghana:** FS and ESIA, HP reservoir, 50 MW



**Brazil:** technical support for FPV pilot



**Seychelles:** tender technical support, 5 MW nearshore



**Liberia:** Pre-FS hybrid FPV/HP



**Vietnam:** POC amphibious PV, 1.4 GW



**Kenya:** feasibility study for 3 HP reservoirs

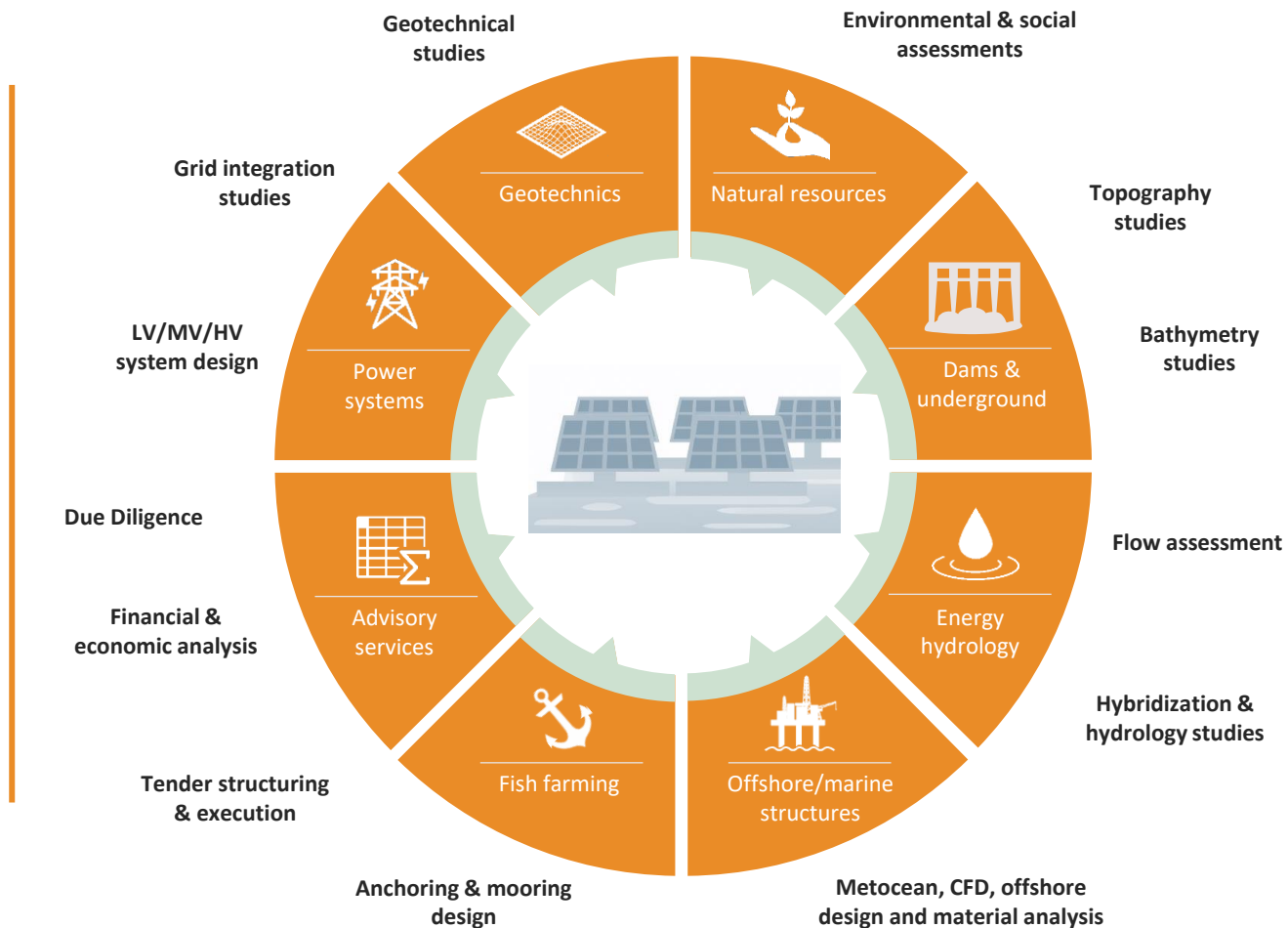


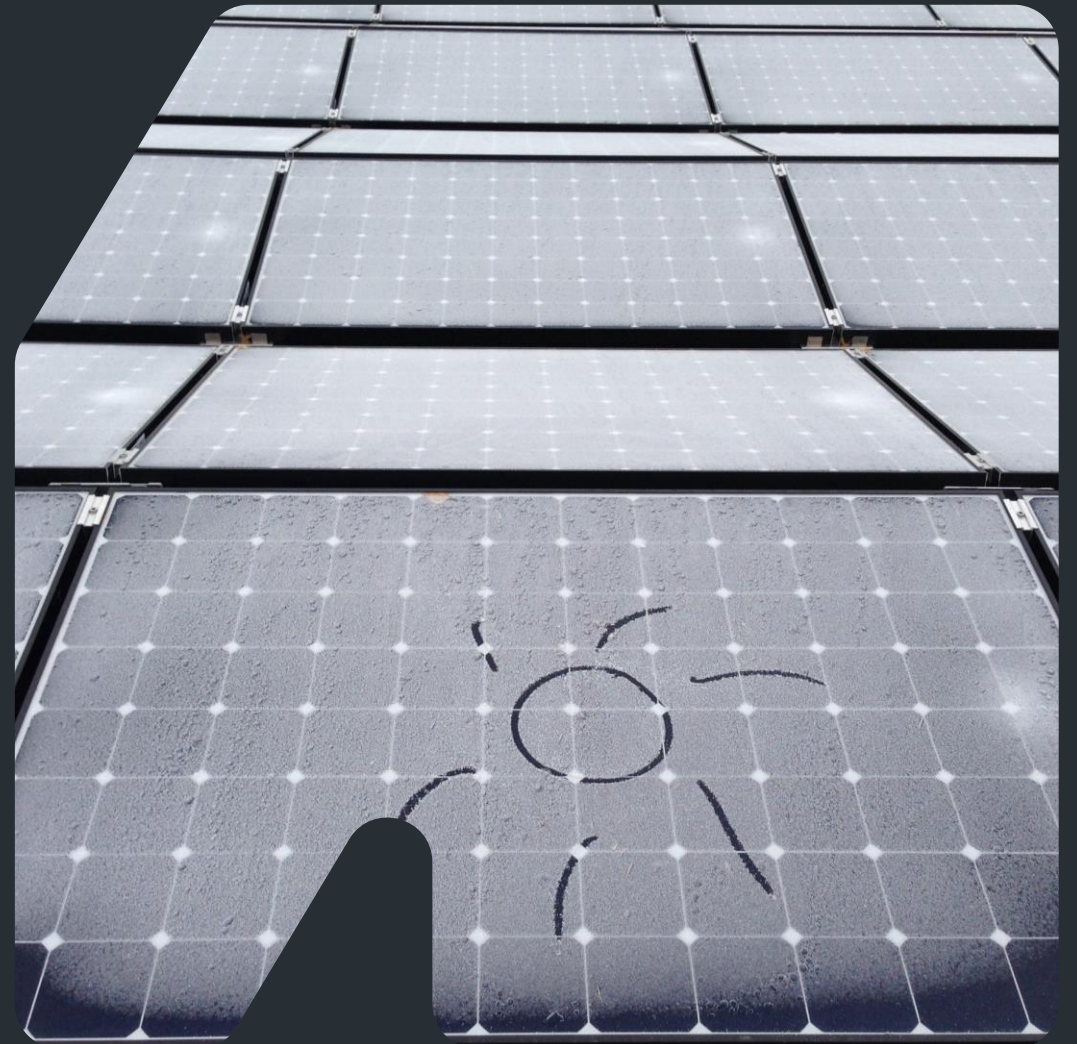
**Norway:** design nearshore FPV fuel saver



**Sri Lanka:** assessment of 7 HP reservoirs

Key value proposition





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