

# ZAKH GROUP

UAE

# FAERS



*A leading renewable energy company providing cutting-edge sustainable energy solutions that transform industries and create lasting environmental impact in the UAE and beyond.*

## Company Strategy

Invest → Build ← Produce ← Innovate

Strong foundation for growth

## Headquarters

UAE

Strategic presence in the heart of renewable energy innovation

## Group Structure

4 Companies

Complete renewable energy ecosystem

## ZAKH GROUP

Parent Holding Company



### ZAKH Investment

Strategic & Financial Arm



### ZAKH EPC

Project Development



### ZAKH Manufacturing

Technology Production



### ZAKH R&D

Innovation Hub



**Complete ecosystem from investment to technology,  
construction, and innovation**



## Role:

Core holding and investment company



## Focus

Attracts investors and allocates capital into **renewable energy projects**, especially solar farms



## Functions

Works with local and international partners  
Evaluates opportunities presented by the EPC company  
Provides financial backing for approved projects



## Goal

Ensure sustainable returns and expand renewable energy infrastructure through strategic partnerships





## Role

Developer and executor of renewable energy projects



## Functions

- Conducts **feasibility studies** and project assessments
- Designs, plans, and manages large-scale solar farms
- Selects and supervises contractors
- Oversees construction and commissioning
- EPC provide after project services



## Strength

Professional team with global experience in mega-scale projects (10 MW – 1,000 MW)



## Outcome

Delivers ready-to-operate renewable energy assets to ZAKH Investment





## Role

Solar panel and technology supplier



## Products

- High-efficiency solar modules: **380–800W**, up to **24.3%**
- Solar tiles, BIPV façades, transparent PV glass
- Advanced technologies :TOPCON, HJT, CdTe thin-film



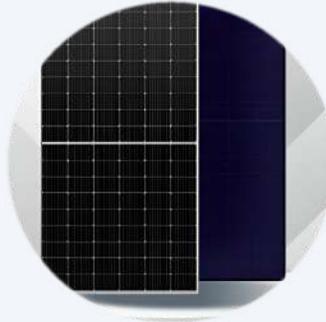
## Strengths

- UAE-based production for reliable supply chain
- **Long-term warranties 50 years on R&D**
- Integration with EPC projects



## Outcome

Provides high-quality solar products for in-house EPC projects and external markets



## Facility Location:

- Ras Al Khaimah (RAKEZ), UAE
- 30,000 m<sup>2</sup> site with warehouse, and laboratory
- 8,000 m<sup>2</sup> manufacturing area.





## Role

Innovation and technology advancement hub for the entire ZAKH Group

## Focus Areas

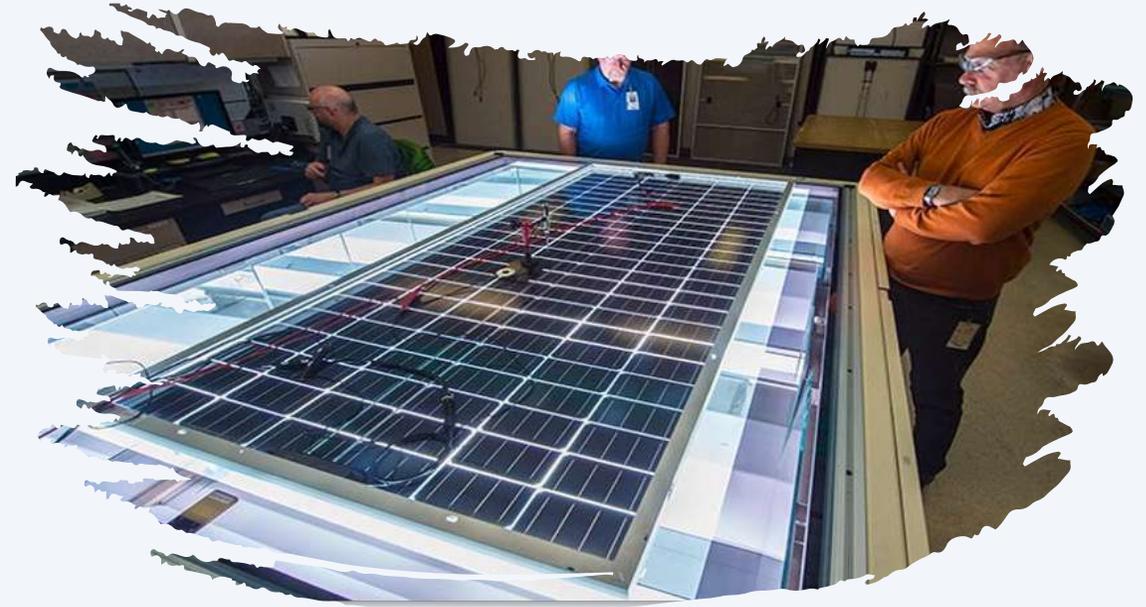
- Continuous development of **next-generation solar technologies**
- Research in building-integrated photovoltaics (BIPV)
- Development of transparent modules
- Hybrid storage solutions innovation

## Support Functions

- Provides new designs to EPC and Manufacturing
- Improves efficiency of existing technologies
- Develops sustainable solutions for future projects
- Develop of panels with **50 years warranty**
- Collaboration with worldwide manufacturing **of inverters and other equipment**

## Goal

Position ZAKH Group as a **technology leader** in renewable energy



## Key Innovation Areas



High-Efficiency Solar Cells



BIPV Integration



Transparent PV Glass



Energy Storage



## ZAKH Investment



### Funding

Provides capital for renewable energy projects



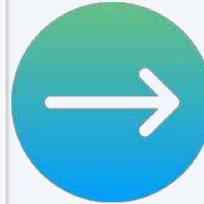
### Partnerships

Connects with local and international investors



### Evaluation

Assesses opportunities presented by EPC



## ZAKH EPC



### Project Development

Identifies and develops renewable energy opportunities



### Project Management

Oversees construction and delivery of turnkey projects



### Quality Assurance

Ensures compliance with international standards



Investment provides financial backing for viable projects identified by EPC





## ZAKH Manufacturing



### Technology Supply

Provides high-quality solar technologies  
locally from UAE



### Reliable Supply Chain

Ensures timely delivery for EPC projects



### Quality Assurance

50 year warranties  
on solar products



## ZAKH R&D



### Innovation Driver

Develops next-generation solar technologies



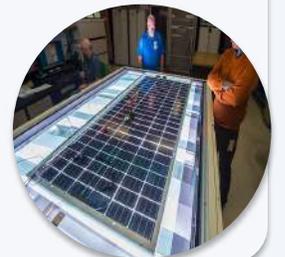
### Efficiency Improvement

Enhances product performance for Manufacturing



### Competitive Edge

Positions ZAKH as technology  
leader



R&D innovations are implemented by Manufacturing to create cutting-edge products





## Solar Panels



**High-Efficiency** Photovoltaic Modules



Durable, weather-resistant construction



Long service life with maximum energy output



Designed for residential & commercial applications



## Solar Tiles



**Aesthetic Design** blends with traditional roofing



Functional integration maintaining roof integrity



Easy installation with standard roofing techniques



Seamless energy generation without compromising aesthetics



## Solar Modules for Parks



**Custom-engineered** structures for public spaces



Optimized for maximum sun exposure



Minimal disruption to existing infrastructure



Dual-purpose: shade provision & energy generation



## Solar Modules for Parking



**Quick deployment** in urban settings



Vehicle protection while generating energy



Reduced carbon footprint for public facilities



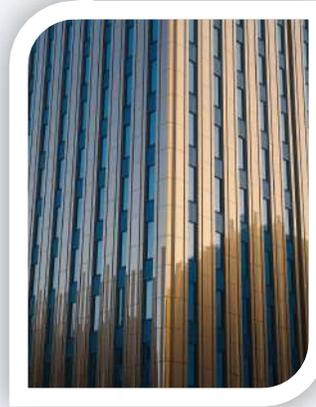
Potential integration with EV charging stations





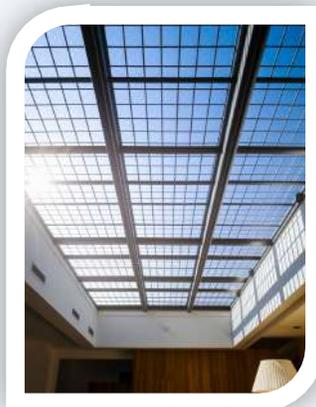
## BIPV Integration

-  **Seamless incorporation** into building materials
-  Replaces conventional building components
-  Enhances architectural design with sustainable technology
-  Reduces energy costs while increasing building value



## Transparent PV Glass

-  **Dual functionality:** transparency & energy generation
-  Ideal for windows, skylights, and façades
-  Reduces heat gain while generating power
-  Maintains aesthetic appeal of modern architecture



## Solar Street Lighting

-  **Efficient energy collection** during daylight hours
-  Advanced battery systems store power for nighttime use
-  Smart systems optimize illumination based on conditions
-  Modern designs complement urban aesthetics



## Urban Integration

-  **Complete ecosystem** for sustainable cities
-  Integrated systems work together seamlessly
-  Smart monitoring and control capabilities
-  Long-term cost savings and reduced maintenance



# Leadership Team and Expertise

Part 2: Why Our Leadership Makes the Difference



## Technical Innovation

Leaders stay at the **cutting edge** of renewable technology, delivering state-of-the-art solutions



## Proven Track Record

Consistently delivers **complex projects** on time, within budget, and exceeding quality expectations



## Global Experience

Hundreds of successful projects worldwide, bringing **international best practices** to every engagement



## Client-Focused Approach

Designs **custom solutions** that address specific client needs while optimizing for efficiency



## Collective Expertise That Powers Our Success



### Decades of Experience

Combined expertise across engineering and project management disciplines



### Innovation Focus

Pushing boundaries of what's possible in renewable energy



### Commitment to Excellence

Delivering results on time, within budget, and to highest standards



### Global Perspective

International experience across diverse markets and regulatory environments

## Vision for the Future

 Global Impact

 Market Expansion

 Innovation

 Sustainability

## Manufacturing Excellence

 Facility Expansion

 Advanced Laboratory

 8,000 sqm Warehouse

 Regional Hub

## Our Target: Net-Zero by 2050

**Commitment:** Achieve full elimination of greenhouse gas emissions by 2050.

 Dubai, UAE

### Strategy:

Deploy **3 GW of renewable capacity**

 Achieve **5.2 TWh clean power annually**

Reduce emissions by **4.7 million tons of CO<sub>2</sub> each year**

 Equivalent to removing **1 million cars** from the road



Shaping Energy for a Sustainable Future



## Kenya. KILIFI 100 MW Q4 2025-Q1 2027

📍 Kilifi County, Kenya



Planned Capacity

**100 MW**



Solar Panels Needed

**~180,000 pcs**



Growth Potential

**Major expansion opportunity**



## BIPV and Solar 1.13 MW Q1 2025-Q2 2025

📍 Seeb, Oman



Capacity Goal

**1.13 MW**



Panel Requirements

**~1300 pcs**



Partnership

**Global opportunity**



Pre-Feasibility Report for the 100MW On-Grid Solar Farm Integrated with a Food Security Project in Kilifi, Kenya



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MANUFACTURING PT. LTD

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July 2025

KOACH

ENERGIES LTD

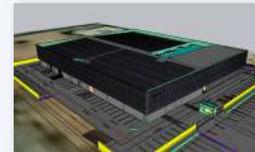
Email to: oman@koach20@gmail.com

100MW On-Grid Solar Farm Integrated with Food Security Project in Kilifi, Kenya

A pre-feasibility assessment for a sustainable energy and agricultural development initiative



1.13 MW BIPV and Rooftop Solar Panel System at BMW's New Building in Al Mawalih North, Seeb, Oman



ZAKH

MANUFACTURING PT. LTD

PREPARED BY: ENGR. ZAKH U. ABDEN-GURESH  
DESIGNATION: ENGINEERING PROJECT MANAGER  
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July 2025

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1.13 MW BIPV and Rooftop Solar Panel System at BMW's New Building in Oman

A sustainable energy solution designed to harness Oman's abundant solar resources while supporting BMW's environmental goals and Oman's renewable energy transition.

July 2025

## Kenya, Dongo-Kundu 25MW Hydrogen

Kilifi County, Kenya



Planned Capacity

**25 MW**



Solar Panels Needed

**~35,000 pcs**



Growth Potential

**Major expansion opportunity**



## Zambia 60 MW

Seeb, Oman



Capacity Goal

**60 MW**



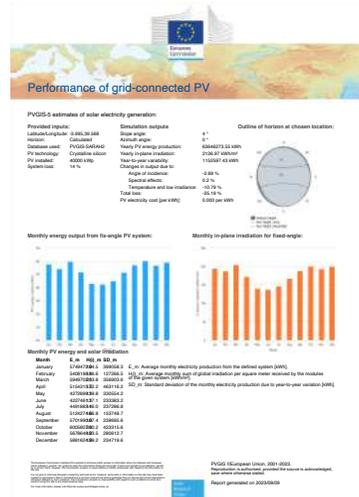
Panel Requirements

**~90,000 pcs**



Partnership

**Global opportunity**



Green Hydrogen Production Company  
- Dongo Kundu Special Economic  
Zone, Mombasa County, Kenya

Registration: PVT-5JUEJVG2 | Date: 15th February 2023 | Stage: Green  
Field

KOACH ENERGIES LIMITED



**DanAon Energy**  
DANAON RENEWABLE ENERGY ZAMBIA LTD  
KASIMA, MUTONGO VILLAGE, MONGU, WESTERN PROVINCE  
ZAMBIA

### FEASIBILITY STUDY REPORT

60MW KASIMA, MONGU SOLAR PHOTOVOLTAIC (PV) POWER PROJECT  
DANAON RENEWABLE ENERGY ZAMBIA LTD



Document No: WSP 005/07/25

60MW- Mongu Solar PV Plant GIS Inception Report

July 2025

Prepared By	Date	Reviewed By	Date	Approved By	Date
Independent Consultant	28/07/25	DanAon Renewable Energy Limited	28/07/25	DanAon Renewable Energy Limited	28/07/25

**POWER PURCHASE AGREEMENT**

Between:

**DANAON RENEWABLE ENERGY ZAMBIA LIMITED**

And:

**ZESCO LIMITED**

MARCH 2025

## Contact Details

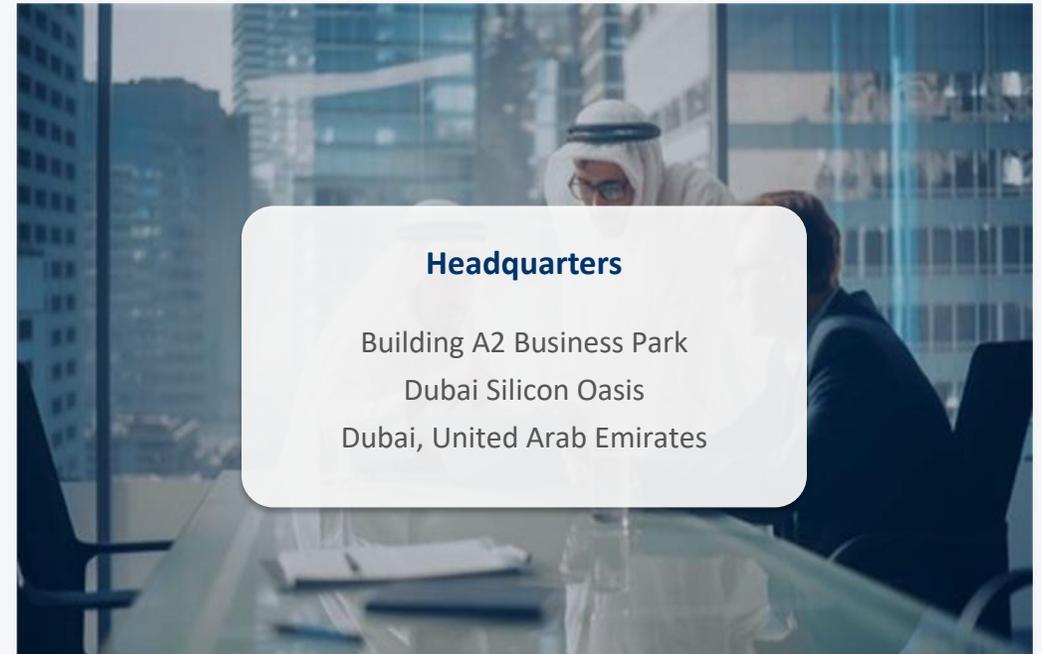
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**+971 52 585 3307**

Company  
**ZAKH Investment Group FZCO**

## Office Location



### Headquarters

Building A2 Business Park  
Dubai Silicon Oasis  
Dubai, United Arab Emirates