

COMPANY PROFILE



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Alternatives of Tech-enabled Decentralized Infrastructure.
Providing Safe Water & Clean Energy to less-served
Communities.







Main Office: Office 115, TIEC Building, Smart Village, Giza, Egypt



- 28.8 km Alexandria - Cairo desert road, Abu Rawash Industrial Zone, Giza, Egypt

- Industrial Unit no.67, Industries Complex, Hurghada, Red Sea Governorate



www.noornation.com



hello@noornation.com





ABOUT NOORNATION

The first African Egypt-based renewable energy start-up to bridge life essentials through decentralized infrastructure solutions for less-served areas in Egypt and Sub-Saharan Africa.

Our name is inspired by the word **Noor** in Arabic, it means light, and light is not only the essence of renewable energy resources but also the beacon of hope. From Egypt, NoorNation is spreading aspiration to Africa by using innovation to **bridge life essentials**; clean electricity and safe water from solar energy empowering farming, tourism and rural businesses in less-served communities.

VISION

We have the vision to empower 1 million people in Africa with their life essentials of accessible energy and water from renewable resources.



NOORNATION AS A MANUFACTURER

We are approaching our vision by manufacturing the infrastructure solutions locally with our calibers, contributing directly to the industrial localization movement as well as sustainability governance globally to give peace of mind to our customers; farming & tourism businesses and rural communities for achieving their triple bottom line; social, financial, environmental growth. Since our factory has been up and running, we are enabled to take control of various aspects including costs, manufactured products, and services.

Our manufacturing model consists of 2 essential parts, solution-based production, and service offering commitments.



NOORNATION MILESTONES



670 kWp Installed



\$200,000 Money Saved



2 GWh Energy Produced



3000 m² Land Saved



1500 Tons CO2 Mitigated Emission



5 Million Liters Water Desalinated



2,260,000 m³ Water Pumped



1200 beneficiaries from LifeBox

NOORNATION SOLUTIONS

Currently, We are developing and manufacturing tech-enabled solutions by renewable energy.





LifeBox is tech-enabled and ready-made for every need, it's available from 3 to 130kWp, either water pumping for irrigation, water desalination or electricity for home appliances or even all together customizable for your agriculture and farming needs using only solar power.



I.DECENTRALIZED INFRASTRACTURE



LIFEBOX FEATURES

Ready-made for Every New

Available from 3 to 130 kWp, either electricity or water production and desalinated water up to 45000 ppm.

Dual Supply of Clean Energy

Water pumping for irrigation, powering and lighting labour houses + water desalination & purification all for farms, camps, and eco-lodges.

Remote Control & Monitoring

Each LifeBoxcontains remote control & monitoring system using IoT for optimal system monitoring, fault prediction, and maintenance notification.

Area Effectiveness

Consumes 73% less footprint than regular PV systems.



Plug & Play

Rapid installation & operation



LIFEBOX FEATURES



10 years operational Green Warranty excluding water desalination consumables



10% higher efficiency for elevated Bi-facial solar modules due to LifeBox innovative design



50% Less in infrastructure compared to regular ground mounted systems





Can work in **Hybrid** with Diesel Generator or Electricity Grid (Optional)



LIFEBOX COMPONENTS

Durable Mounting Structure

Industry-leading solar mounting structure; best in class hot dip galvanized (HDG) steel structure, withstands 5 times its load, multi-layer protective coating, highest wind load durability yet designed to offer ultimate flexibility that built to last.

Solar Panels

Withstands high temperature like no other! Tier 1, Mono Crystalline mounted on plug & play, sub-assembled and HDG corrosion-resistant steel structure, easy-fast assembling or dismantling with zero damages.

Fresh Water Out

Reservoir for fresh, hygienic, and ultra-filtered safe water for drinking, agriculture, livestock, domestic use, esuring quality and well-being.



Inlet Water

Reservoir for contaminated or high salinity water from bore wells, canals, lakes or sea water.

| Container

The containing unit safely houses the solar system components, extends their lifetime and improves performance. It's innovative pre-fabricated design makes it completely plug & play, portable and easily deliverable to the most hard-to-access locations.

IT'S CUSTOMIZABLE FOR YOUR NEEDS LIFEBOX

II.REMOTE CONTROL & MONITORING SYSTEM



NoorNation's LifeBox is providing IoT feature for real-time data and securing constant water and energy supply. The system allows users to monitor many parameters such as daily water pumped, energy production, CO2 avoided, and many more.

Also, it is an innovative tool for the sustainable operation of reliable performance, longer lifespans of components, fault prediction and maintenance notifications.



III.SERVICE OFFERING COMMITMENT

NoorNation offers easy payment and quick installment options, available for up to 5 years, allowing customers to enjoy the benefits of clean energy within 3 to 5 years. Moreover, for financing partners, NoorNation's remote control and monitoring systems are an attractive financing facility for banks, "buy now, pay later" companies, impact investors and donors.



A. Green Warranty

10 years overall warranty for operation, efficiency and performance plus each component product warranty



B. Competitive Prices & Payment Facilities

In-house development, engineering, and production in their factory in October & Hurghada allow them to offer competitive prices and flexible payment facilities suits customers' needs.



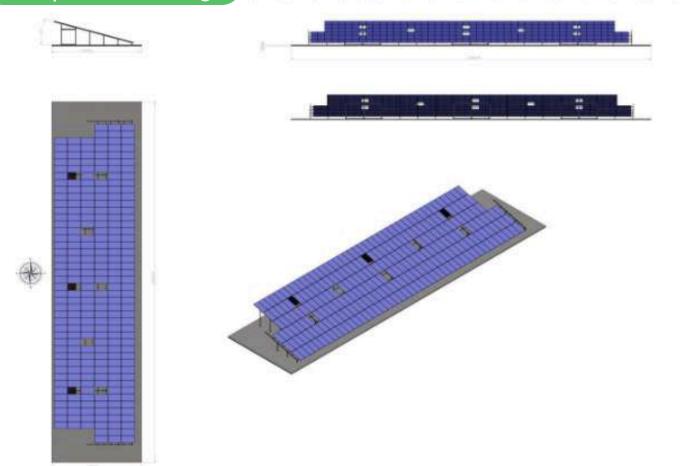
C. After buy & maintenance services

NoorNation offers one-year free maintenance services and serves various locations, ensuring that customers receive reliable and efficient services.

Solution overview

LBPVP150, **165 kWp LifeBox**, offers an innovative solution for operating a 150 hp submersible pump, providing 1350m3/day on average. The pump can be switched to run by diesel in certain circumstances of operation at Linah Farms. With this sustainable approach, our advanced LifeBox, equipped with remote monitoring and control, can provide cost savings, enhanced efficiency, and reduced environmental footprint.

Sample 3d design



IV.INCLUSIVE ACCESSIBLE CLEAN ENERGY & SAFE WATER SERVICES



LifeBox Water Purification through **PayG** or lease-to-own for rural communities in Sub-Saharan Africa.



SlaaS (Solar Irrigation as a Service), integrating our solar power solutions with smart irrigation as a service for small farmers.



EcoFlex, a sustainable mobile and plug & play containing units for recreational, agriculture, construction businesses and more!



Design, Engineering and constructing all applications for **small-scale solar PV systems.**



Providing state-of-art Training and Consulting Services.

SOLUTION-BASED MANUFACTRING SHOWCASE

Fish wastes used as fertilizers

NoorNation believes in combining sustainability with innovation to address fundamental problems like access to safe water, food, and electricity.

LifeBox focuses on the user journey and utilize solar energy in unique ways. In their latest project, LifeBox Water-Energy-Food Nexus, solar energy is used to pump water for irrigation, desalinate water, and fill a fish reservoir

Water-Energy-Food Nexus

LifeBoxpumps underground water for irrigation













The innovation demonstrates how our decentralized infrastructure solutions can create a sustainable and reliable value chain for food production, irrigation, and water management.





PEOPLE OF NOORNATION



Ragy Ramadan Founder & CEO REP



Mohamed Khaled Co-Founder & СТО



Anton Tarek Mechanical Engineering head



Mayar Technical-Sales Engineer



Salah Eldin Business Development Engineer



Abdelrahman Tarek Project Engineer



Eman Wahby Advisor 13 years of international development experience with the World Bank Group

THE WORLD BANK



Maelis Carraro Advisor Co-Founder of Catalyst Fund











Impact-driven

Empathy

Commitment

IMPACT



2 GWh Energy Produced



1500 Tons CO_2 Emission Mitigated



5 Million Liters Water Desalinated



3000 m² Land Saved



200,000 USD Money Saved



Up to 120 Farmers Empowered









SCALABILITY IMPACT IN AFRICA

The impact we leave after deploying our solution: environmentally, socially and financial is focused on expanding decentralized infrastructure solutions for supplying modern and sustainable energy services. This is obvious in how renewable energy can close the gap of 2.8 billion people lacking access to basic services infrastructures such as water and electricity.

An opportunity to expand: Morocco, Kenya, Zanzibar, Tanzania, and sub-Saharan Africa.

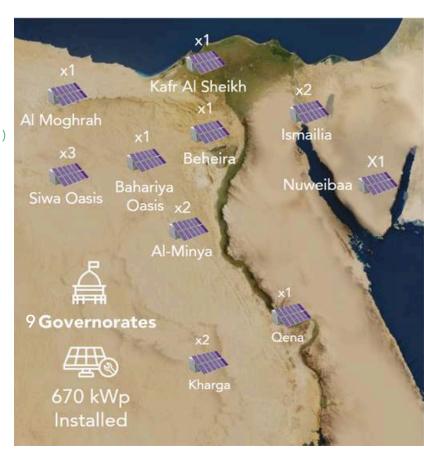




IMPLEMENTED PROJECTS

NoorNation team successfully implemented 15 projects on off-grid areas across Egypt.

- Remenkimi Orchards, Cairo-Ismailia Road (Nov. 2021)
- Shahin Farm, Cairo-Ismailia Road (Jan. 2022)
- Golden Land Farm, Moghra (May 2022)
- Bore'l Farm, Al Alamein Road/Natroun (Aug. 2022)
- Khedr Farm, Baharia Osais (Dec. 2022)
- Al Amal Farm, West Minya (Oct.2022)
- Upper Egypt Sons Farm, Minya (Jun, 2023)
- K.Nahas Farm, Qena western road (May 2023)
- Santar Ecolodge (x3), Siwa Oasis (Jun. 2023)
- Wady Natroun Farm, Wady Natroun (Dec. 2023)
- LBX Ways, Kafr Al Sheikh (Dec. 2023)
- Kharga, New Valley (Mar. 2024)





























Name: LB-PVP-3.5 .ocation: Wadi El-Natron



● On map

(Under development)

SlaaS by NoorNation, is an innovative model that transforms flood irrigation into modern/smart irrigation systems driven by LifeBox (solar powered), where farmers can pay as per use for time of water pumped during pre- or after post-harvest. This model eliminates the need for large upfront investments, allowing farmers to pay with ease based on their usage. Ownership can be transferred to farmers within 5 to 7 years.

ور نيشن للطاقة المتحددة



within 5-7 years



Ease of Payment



Smart irrigation



Reduces High upfront investments

SlaaS

A revolutionary new model that solves problems



Over flood irrigation



Very low irrigation efficiency



Low profitability



50% energy share for production



SlaaS Solar Irrigation as a service (Under development)





Our SlaaS pilot on a 2 feddans farm testing both ground-water and simulating stream/canal surface water pumping built with smart irrigation through field sensors and remote monitoring & control web platform, while optimizing the system operation, controlling on/off functions based on







RECOGNITION, AWARDS, and PARTNERSHIPS



November 3rd., 2022 NoorNation was awarded by H.E. Egypt Prime Minister Dr. Mostafa Madbouly as Egypt's 1st Place Winners in the COP27 National Initiative for Smart Green Governorates.





1st Place worldwide in One Creation Award for environmental innovation



CNN Arabic media appearance



Innovation 30 Award for the best young inventors from UNICEF

















NOORNATION نور نيشن للطاقة المتجددة

BRIDGING LIFE ESSENTIALS

