

# Aren Energy & Water Systems Holding

A Strategic Infrastructure Division of MEGA HOLDING | GOD AI FATHER  
Where Sustainable Power Meets Intelligent Water Sovereignty

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## Vision

Aren Energy & Water Systems is Israel's flagship infrastructure division — dedicated to replacing fossil-based dependency with AI-managed green energy and multi-grade water desalination systems for both national and remote ecosystems.

This division operates at the intersection of climate resilience, energy independence, and water equity — exporting Israel's technology to drought-stricken and off-grid regions.

All core members are recruited for deep technical expertise in energy autonomy, fluid engineering, and algorithmic control systems. AI is used not only to optimize performance but also to forecast consumption, regulate grid behavior, and automate critical environmental response.

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## Core Positions, Skills, and Tools

### *1. Sustainable Power Grid Architect*

- **Skills:** Power grid simulation, infrastructure design, resilience planning
- **Tools:** ETAP, PowerFactory, AutoCAD Electrical
- **Experience:** 5+ years in national or microgrid energy planning

### *2. Smart Solar & Wind Infrastructure Engineer*

- **Skills:** Renewable energy systems, turbine and PV configuration
- **Tools:** PVSyst, WindPRO, MATLAB
- **Experience:** On-site deployment and testing of hybrid energy farms

### *3. Autonomous Battery Storage Systems Specialist*

- **Skills:** Battery chemistry, AI-driven energy storage logic
- **Tools:** HOMER Grid, BMS software, Simulink
- **Experience:** Integration of smart storage with grid dynamics

### *4. Real-Time Power Distribution Analyst*

- **Skills:** Load balancing, fault prediction, control optimization
- **Tools:** SCADA systems, GridOS, Python-based AI models
- **Experience:** 24/7 live monitoring experience in high-load environments

#### 5. Microgrid Planning & Off-Grid Integration Lead

- **Skills:** Decentralized energy systems, demand forecasting
- **Tools:** HOMER Pro, OpenDSS, R
- **Experience:** Rural electrification and NGO-partnered deployments

#### 6. Water Desalination Systems Engineer (multi-grade)

- **Skills:** Reverse osmosis, nanofiltration, AI tuning of purity levels
- **Tools:** ROSA, WAVE, custom AI filtration control systems
- **Experience:** Industrial-scale water treatment systems

#### 7. Fluid Purity Monitoring Specialist (AI-based)

- **Skills:** Sensor calibration, contamination prediction, lab-to-field validation
- **Tools:** IoT sensors, TensorFlow, LabVIEW
- **Experience:** Deployment of smart water safety systems

#### 8. Environmental Load Balancer – Energy & Water

- **Skills:** Cross-resource simulation, resilience optimization
- **Tools:** Simscape, GAMS, Excel Solver
- **Experience:** Holistic modeling in resource-constrained regions

#### 9. Leak Detection Algorithm Designer

- **Skills:** Signal anomaly detection, pressure modeling, pipe behavior prediction
- **Tools:** Python, ANSYS Fluent, custom AI models
- **Experience:** Smart city water infrastructure projects

#### 10. Atmospheric Water Capture & Deployment Expert

- **Skills:** Air moisture condensation tech, remote-area logistics
- **Tools:** Condenser design tools, Autodesk Inventor, AI weather data
- **Experience:** Deployment in arid zones

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### Salary

#### Base Salary: €7,200 / month

Final compensation is performance-based and linked to engineering innovation and international deployment impact.

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*Note: Additional AI and automation roles (e.g., ML model developers, UI engineers) are sourced via internal cross-division talent pools.*