



AWEG

Atmospheric Water and Energy Generator

by 3e Danışmanlık

01

Water

- Water scarcity affects **40%** of the global population.
- 1 M people/year **die** from diseases related to hygiene.
- **2.2 B** people lack access to safe drinking water.
- **\$260 B** economic lost/year due to lack of basic water and sanitation.

02

Electricity + HVAC

heating, ventilation, air-conditioning

- **760 M** people have no access to electricity.
- **\$52 B/year** must be provided for universal electricity access by 2030.
- Inefficient heating and cooling causes **40%** of global **CO₂** emissions.
- **50%** of the total energy consumption of the EU results from heating and cooling.

01

Water

Production
of water
from air.

02

Electricity

Electricity
production.

03

HVAC

HVAC energy
production.

Solution

1 facility
3 outputs

Zero CO2 emission.
Highest known output.
No energy need for production.
Local production, local consumption.
Preventing farmland from intruding on natural habitats.
Employment generation, especially for disadvantaged groups.



Solution Plus: Extra Benefits!

01

Water

02

Electricity + HVAC

Climate Action

Health and Well-being

Quality Education

Economic Growth/Impact

Sustainable Agriculture, Cities and Communities

Gender Equality

Industry, Innovation, and Infrastructure

Clean Water and Sanitation

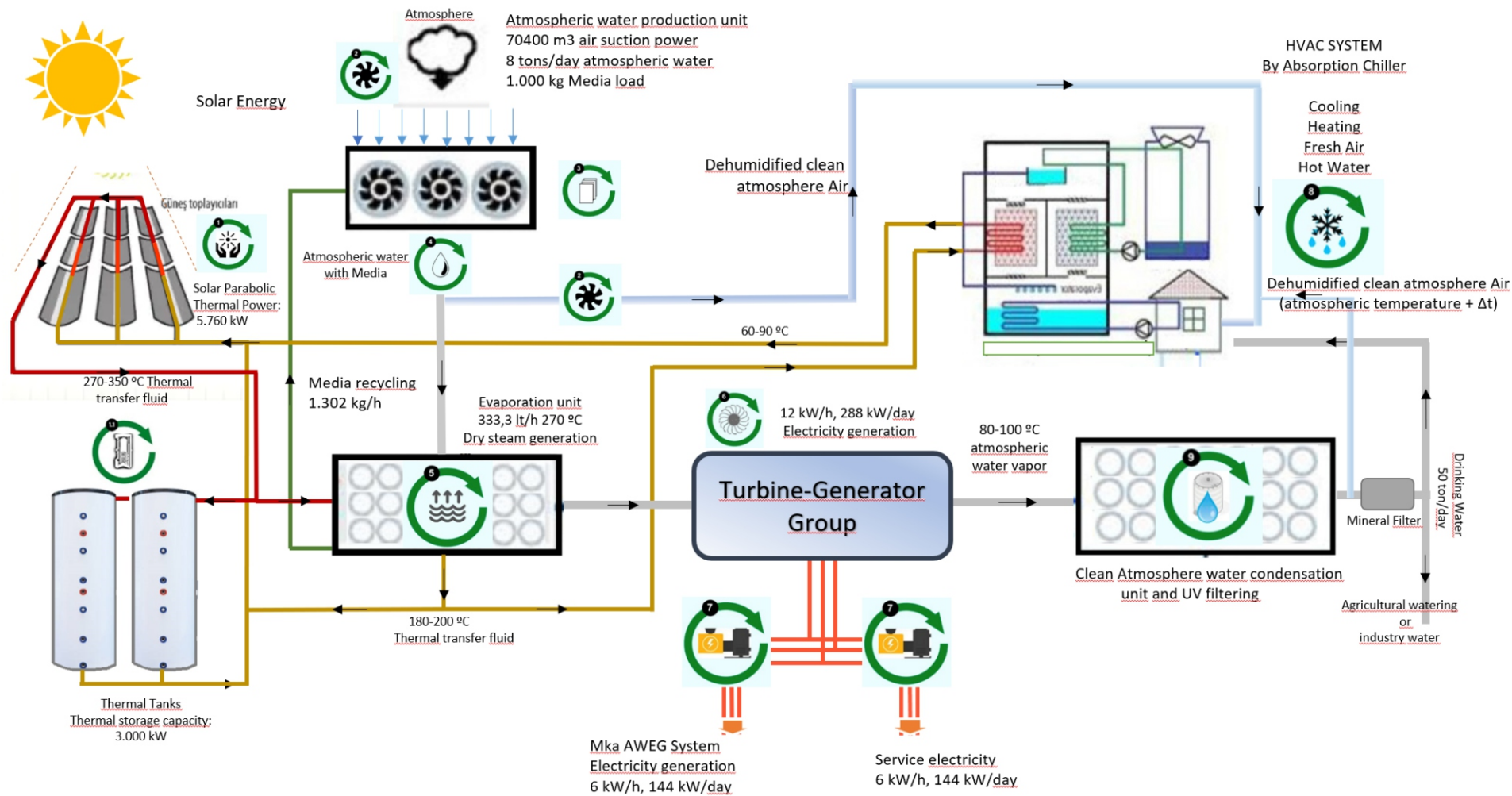
Urban Development

Affordable and Clean Energy

Responsible Consumption and Production

No Poverty

Reduced Inequalities



Functioning Principle

Targeted Use



B2B

B2C

B2G

Zero Co2 Footprint

Negative Water Footprint

Zero Greenhouse Gas Use

Target Markets

B2G

Infrastructure projects, particularly in water-scarce regions or areas with unreliable power grids. Public-private partnership opportunities based on green financing.

B2C

Smaller or home-based versions for residential needs.

Closest Market:

By 2030, the EU aims to achieve a RE target of at least 42.5% and climate-neutrality by 2050. EU provides various subsidies and support programs (Green Deal) that encourage the adoption of RE.

B2B

Reliable on-site and off-grid water/energy for industries like

- food processing,
- office buildings,
- hotels,
- retail complexes...

Carbon-intensive industries like

- manufacturing (steel, cement, chemicals),
- energy production (oil, gas, coal-fired power plants),
- transportation (automotive, aviation, shipping),
- construction,
- agriculture.

EU Corporate Sustainability Reporting Directive (2024-) for

- all large companies (> 500 employees),
- all companies listed on EU markets (like banks, insurances),
- SMEs (from 2028 on but are encouraged to comply earlier)
- non-EU suppliers = opportunity: Turkish Companies

These companies have to disclose environmental risks (Co2 emissions, water use), outline how their strategies align with broader sustainability goals (Green Deal, Paris Agreement).

And have to **INVEST** in **SOLUTIONS** to **REDUCE THEIR IMPACT**.

Market Size

TAM

6.3 T \$

SAM

1.89 T \$

SOM

126 B \$

INT

Paris Agreement

EU Green Deal
Sustainability Reporting
Co2 & Water Footprint

14/17

Sustainable
Development
Goals

and COP29

Legal Frameworks

NAT

Development Strategy of the Regions (2024-2030)

Priority 2: Attracting local and foreign investments
= requires adequate infrastructure for businesses (water/electricity)

Priority 7: Development of tourism
= remote area infrastructure = high costs

Priority 9: Irrigation water supply
= without affecting the water requirements of rural settlements

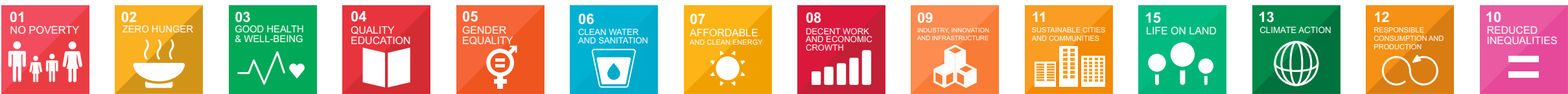
Priority 10: Improving the quality level of electricity and gas supply in villages
= instead of gas HVAC for cooling/heating, **PPP possibilities**

Priority 11: Provision of drinking water
= 7,5 PH drinking water quality + sanitation use

Priority 14: Combating climate change
= global priority

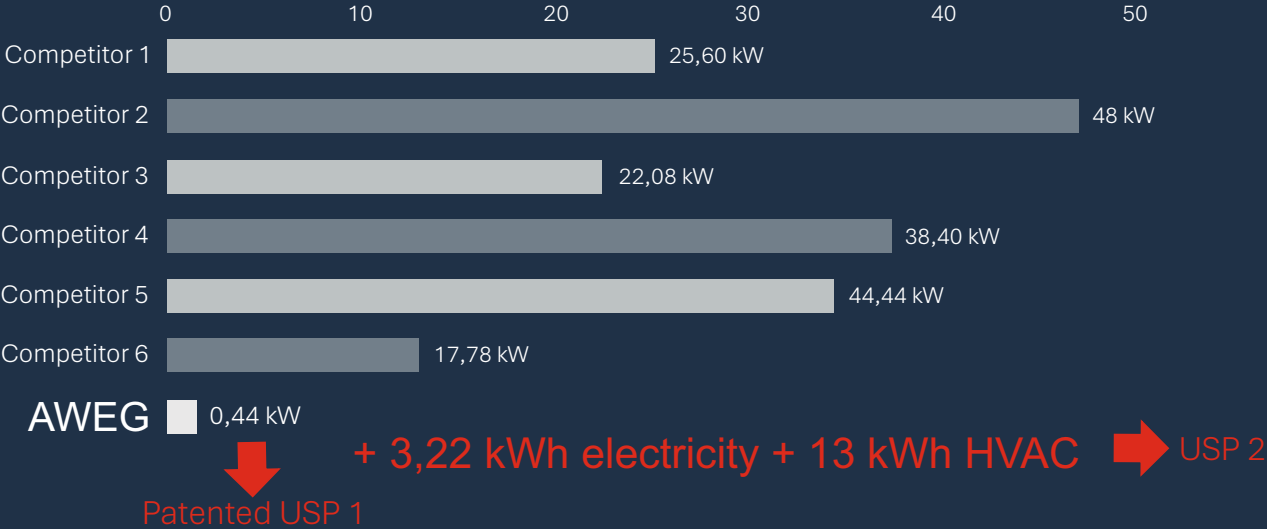
Funding Sources

- State budget, 2024-26, Ministry of Economy
- Private Funding, 2024-26, Ministry of Economy with SOCAR, Azergold JSC, National Confederation of Entrepreneurs (Employers) Organizations
- Funds of international organizations, donors and funds, 2024-26, Ministry of Economy



Use of electricity to produce 100 lt water from the air

Water from Air
... not a new technology



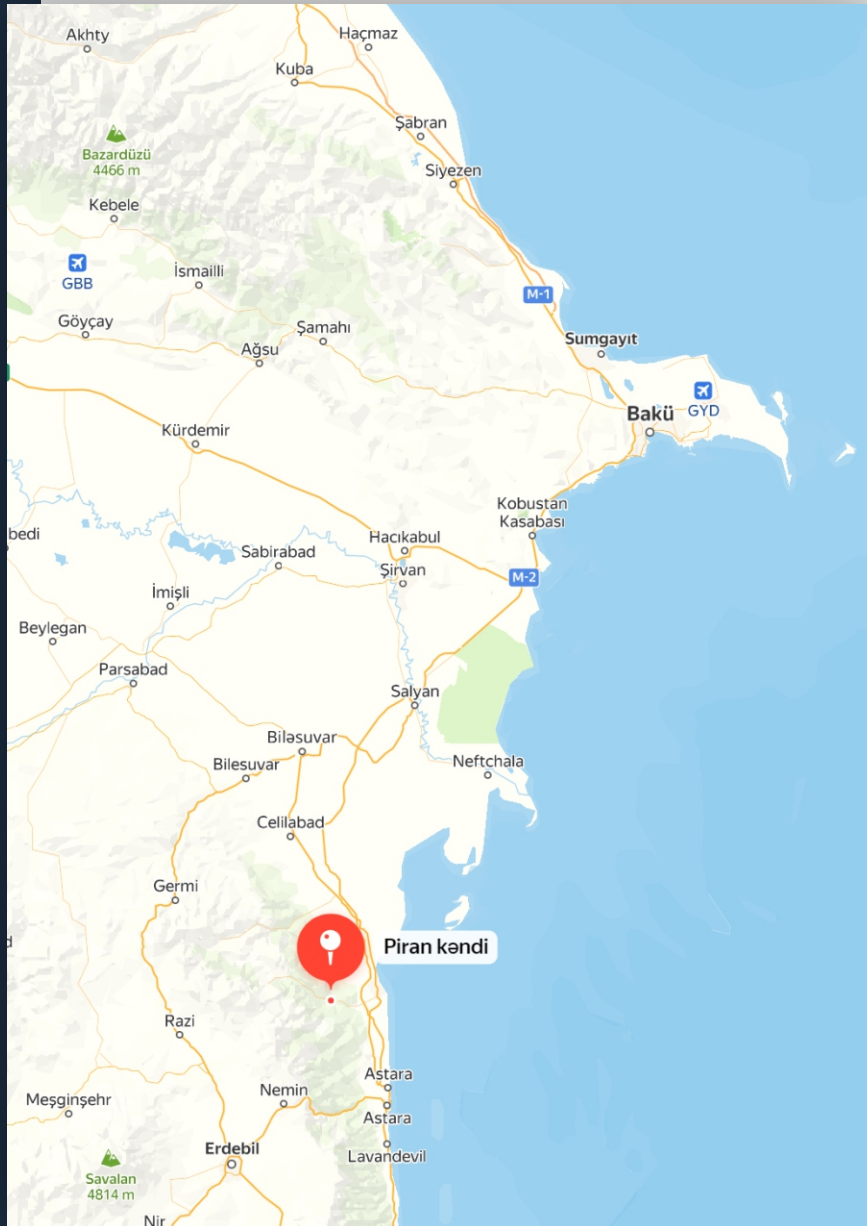
Competitors

Production of 8 MW electricity/day

	Electricity	Area	+ HVAC	+ Water
AWEG	8 MW	0,55 ha	+ 37 MW	+ 100 tons
Photovoltaic	8 MW	2 ha	X	X

AWEG vs Photovoltaic

PPP Case



Brief Case Study

Piran Village / Lerik - Azerbaijan

2,000 inhabitants = 500 households

Needs:

60 tonnes of water/day

185 kw hours of electricity

845 kW/h HVAC energy

Costs:

Establishment of distribution channels and other technical infrastructure

Investment cost of approx. 7 M €.

Funding through international green funding.

Company

3e Danışmanlık founded in 2003

- + 38 years HVAC experience
- + 36 years Logistics and Foreign Trade experience
- + 33 years Distance Technical Crew Management experience
- + 26 years Innovation and R&D experience
- + 22 years Legislation Formulation for EU harmonisation
- + 19 years Technology Development (Water, Energy, Agriculture, Industry etc.)
- +15 years Consulting in Carbon Foot Print, Water Foot Print and Energy Efficiency

Staff: + 40 Engineers + 300 Technicians (employed/freelance)

Companies: +10 Group companies in different operational fields



Türkiye

T E A M



Rüçhan Derici
CEO



Uğur Otaran
CTO



Prof. Dr.
Eda Bayrak
CGO



Azerbaijan

Enkytech Inc. Co. will be established for the operation
in May 2024 in Baku/Azerbaijan.

Awards



Egypt