Water that *runs itself.*

Autonomous water units for the places that can't staff a treatment plant.
Sold by the verified cubic metre.



1 in 4

handpumps in sub-Saharan Africa is out of service *at any given time.*

The technology works. The upkeep doesn't: no certified operator, spares that take months, no proof the water was safe. So sites truck water in at up to US$55 a cubic metre, or boil it.



Foster et al. 2019 · Polar Knowledge Canada, Cambridge Bay, 2019

Three shifts make a unit that runs itself *buildable and billable.*

OPERATORS ARE HARD TO KEEP

First Nations water operators earn ~30% less

Communities struggle to keep them. 39 long-term drinking-water advisories remain in 37 communities.

RULES NOW DEMAND PROOF

Water reporting is becoming law

Alberta now requires actual-use reports. Canada's June 2026 bill sets enforceable First Nations standards.

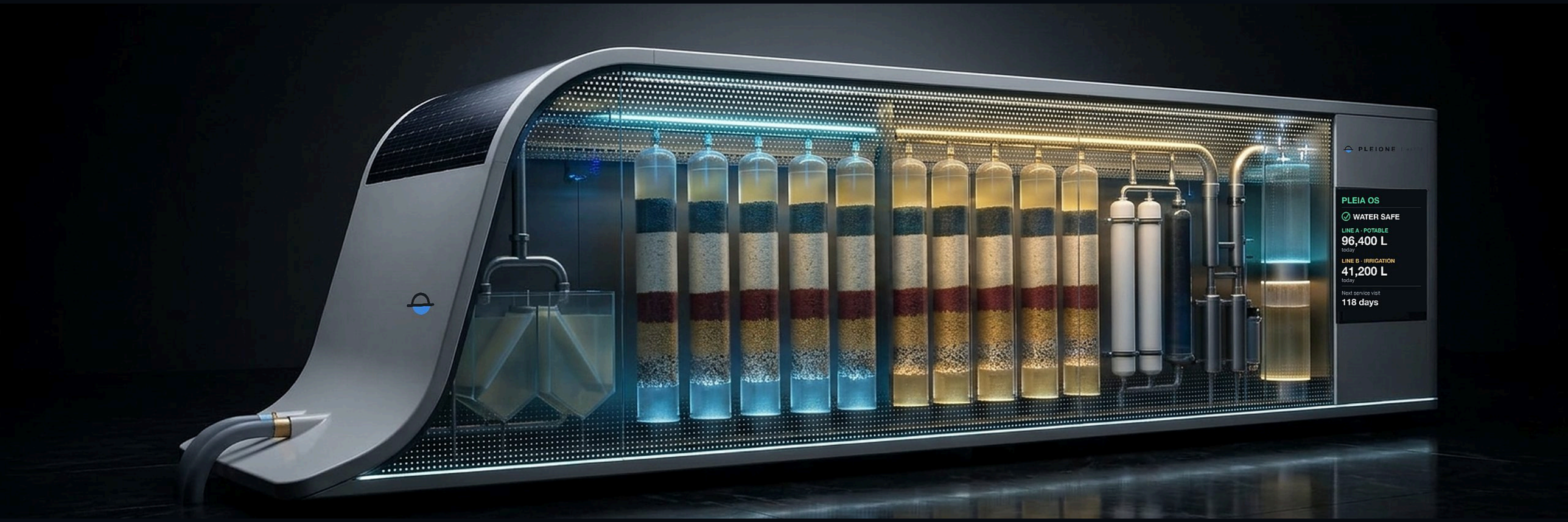
THE PARTS GOT CHEAP

Solar, sensors, edge compute, 3D printing

Together they make a self-running unit affordable to build.

Auditor General of Canada 2021 · ISC, Oct 2026 · Alberta Water Amendment Act 2026 · Law360, June 2026

Meet Pleia 40. *Any water in, clean water out.*



250,000 L
A DAY · DESIGN TARGET

12 months
BETWEEN VISITS · TARGET

2 lines
DRINKING + NON-POTABLE, AT ONCE

0 operators
ON SITE

Design rendering. Pleia 40 is in design, not yet built.

Proven treatment. *A new brain.*

Every barrier inside Pleia has decades of regulator acceptance. What's new is Pleia OS, which runs them without a person on site.



01 READS

Fingerprints the source

River, well, brackish, seawater, mine water. Spots storms and salt intrusion.

02 CHOOSES

Runs only what's needed

Drinking, irrigation or cooling, on pre-validated paths only.

03 PROVES

Signs every litre

Unsafe water is held and diverted. Records verify with no network.

04 PLANS

Calls its next visit

One number, the Autonomy Horizon, says when a person is needed.

AI assists operation. Deterministic safety limits decide what is safe.

We sell the water, not the machine. *At a fraction of today's price.*

WHAT REMOTE SITES PAY PER M³ TODAY, US$



Polar Knowledge Canada · The Star · Eye on the Arctic · Public Entity Saba

$0 upfront

We own the unit. The site pays for water.

$5–10 / m³

Fresh, brackish, seawater. 3,000 m³ monthly minimum.

3–5 years

Contracts, with credits if we miss quality or uptime.

Target pricing, not contracted revenue.

Each unit earns $219K a year *at a 65% gross margin.*

At the 100 m³/day minimum. Pleia 40 is designed for 250 m³/day, so every cubic metre above it is upside.

UNIT 1 · 2027

$250K

installed. The R&D unit, built to learn.

FLEET · 2028

$90K

installed. Pays back in about 8 months.

AT VOLUME · FROM 2029

$47K

installed. Pays back in about 4 months.

Printed body, shared software, factory-direct solar. Estimates. Detail in appendix A1.

PLEIONE

Wherever water is remote, it's expensive. *We go where it costs most.*

01 · REMOTE COMMUNITIES

2.1B

people lack safely managed drinking water. Governments are already paying to fix it: Brazil ~US$160B by 2033, Canada C$9.4B since 2016, Australia A$700M.

02 · MINES AND WORK CAMPS

$7.8B

mining water treatment by 2033, up from $4.8B. Remote camps truck water in or run plants they can't staff, from Australia and Latin America to Africa and Canada.

03 · EVERYTHING ELSE

$48B

decentralized water by 2033, up from $19.5B. Industry, agriculture, disaster response and data centres, on the same water-as-a-service model.

Canada alone: 283 off-grid communities and ~200 remote mines, about US$105M a year at minimum volume (our estimate, NRCan).

WHO/UNICEF JMP 2025 · ApexBrasil · ISC · WSAA · Grand View Research · Straits Research. US$ unless noted.

Everyone else sells a machine *and leaves the site to staff it.*

Incumbents are buying their way into remote water. None of them remove the operator.

Grundfos bought newterra	2025
H2O Innovation taken private, C$395M	2023
Xylem bought Evoqua, ~US$7.5B	2023



Full comparison in appendix A3.

The hardware can be copied. *The record can't.*

REGULATORY

Operator of record

We become the licensed operator for each site. The slowest thing for a rival to earn.

TRUST

A record funders pay on

Signed at the unit, checkable offline. It turns water into a contract.

DATA

Every unit trains the fleet

Each site's hours sharpen the Autonomy Horizon for the next one.

COST

Printed, not fabricated

About a fifth of unit 1's cost by 2029. Steel-box incumbents are built the other way.

And a discipline no one can fake: *Pleia refuses to certify what it cannot measure.*

Provisional patent filing planned on the autonomy control and the signed record.

Risk retired on founder money. *Pilots lining up.*

DONE

- ✓ **Process design** independently reviewed
- ✓ **Pleia OS** verifies offline; tamper and honesty tests passed
- ✓ **Pleia 40** drawing set and costed parts list
- ✓ **Lambton College** NDA signed for testing
- ✓ **Saudi GPIW** prize, 3 entries · **Spring Activator**

PILOT TALKS

Ghana	US NGO in West Africa asked to trial a unit; in contract talks
Brazil	Quintessa asked us to pilot in Brazil
Quebec	CTEAU water technology centre: pilot testing talks
Vietnam	VWSA reviewing Pleia for pilot sites
Mining	Unearthed: mining camp pilot track
USA	WaterStart, Nevada: pilot program review

Status November 2026. Conversations, not contracts, unless stated.

The operator of record for *the water no one else can run.*

1 unit
2027

250 units
2031

a grid
UNITS THAT WORK AS ONE SYSTEM

The disciplines a water unit needs. *The round adds the rest.*

FOUNDER · CEO

Mohamed Yousuf

Auditable AI in regulated and critical settings. Built Pleia OS.

PROCESS

Hamide Elaribe

Chemical engineer, water and wastewater.

HARDWARE

Sasa Jefic

Ex-manufacturing manager, Linamar.

THERMAL

Mahir A

Municipal HVAC engineer.

SENIOR ADVISOR

Abdulrahman M

40 years oil and gas electrical and instrumentation.

HIRING · MONTH 3

Head of Engineering

10+ years shipping packaged treatment systems.

HIRING · MONTH 6

Controls & Software Lead

PLC and edge controls, safety-rated systems.

HIRING · MONTH 9

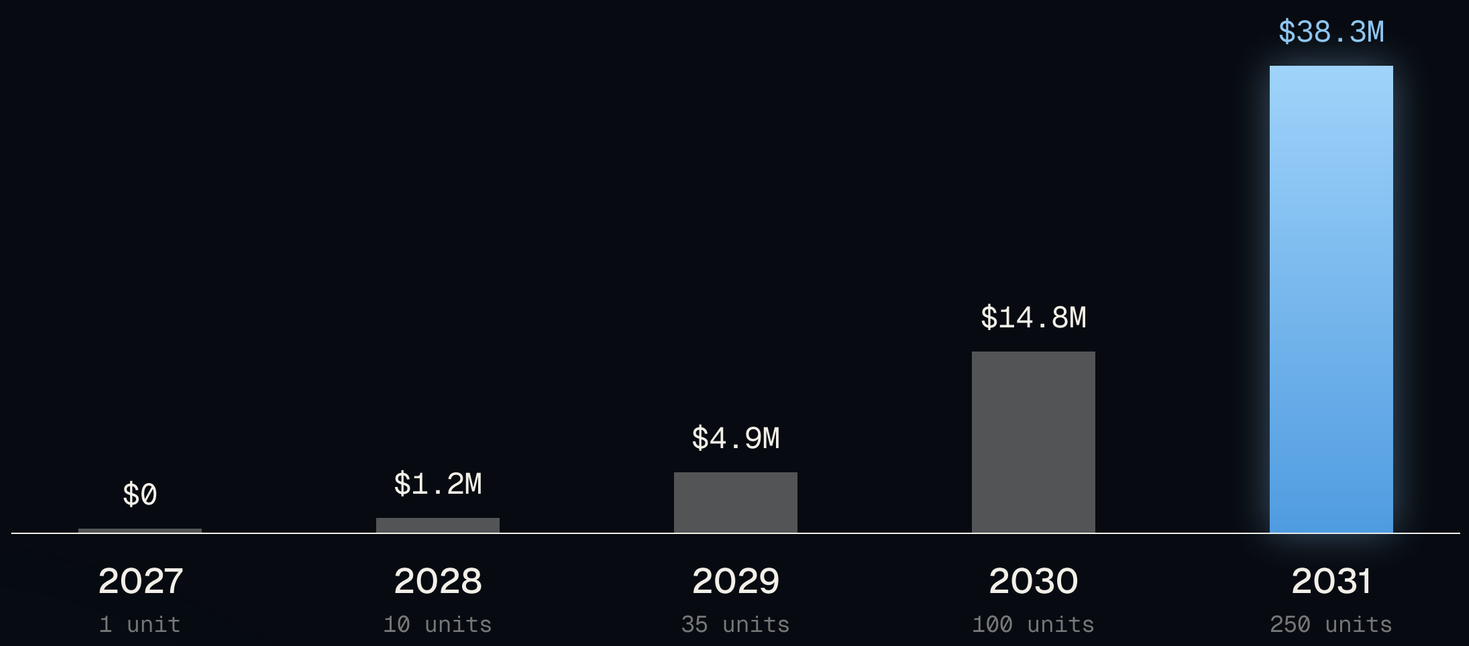
Field Operations Lead

Certified operator; becomes our operator of record.

PLEIONE

1 unit in 2027, 250 in 2031.
EBITDA positive in 2030.

REVENUE, US$



48¢

of each eligible R&D dollar returns as cash (Alberta grant + SR&ED).

60–75%

of fleet units asset-financed from 2029.

2 rounds

This pre-seed, then a US$8M seed in 2028.

Management estimates, pre-revenue. Full model in appendix A1.

US$2M

to put the first Pleia 40 *on real water, and measure it.*

POST-MONEY SAFE · US$10M CAP · US$1.5M FIRST CLOSE

45%	30%	15%	10%
ENGINEERING	FIRST UNIT	PILOT	IP, LEGAL

FOUR GATES TO SEED

MONTH 3 — **Patent filed**
Autonomy control and the signed water record.

MONTH 9 — **Pleia 40 built and tested**
Independent lab confirms drinking-water limits.

MONTH 12 — **First field pilot**
Producing on site, the record open to the client.

MONTH 18 — **First measured Autonomy Horizon**
Months between visits, on the record.



Every litre *proven.*

MOHAMED YOUSUF · FOUNDER & CEO

moe@pleionewater.com

PHONE

+1 587 887 5325

Confidential. Pre-revenue; the first unit is not yet built. Figures are management estimates and design targets.

The detail.

A1 Unit economics and five-year model

A2 Engineering: Pleia 40 general arrangement

A3 Competitor comparison

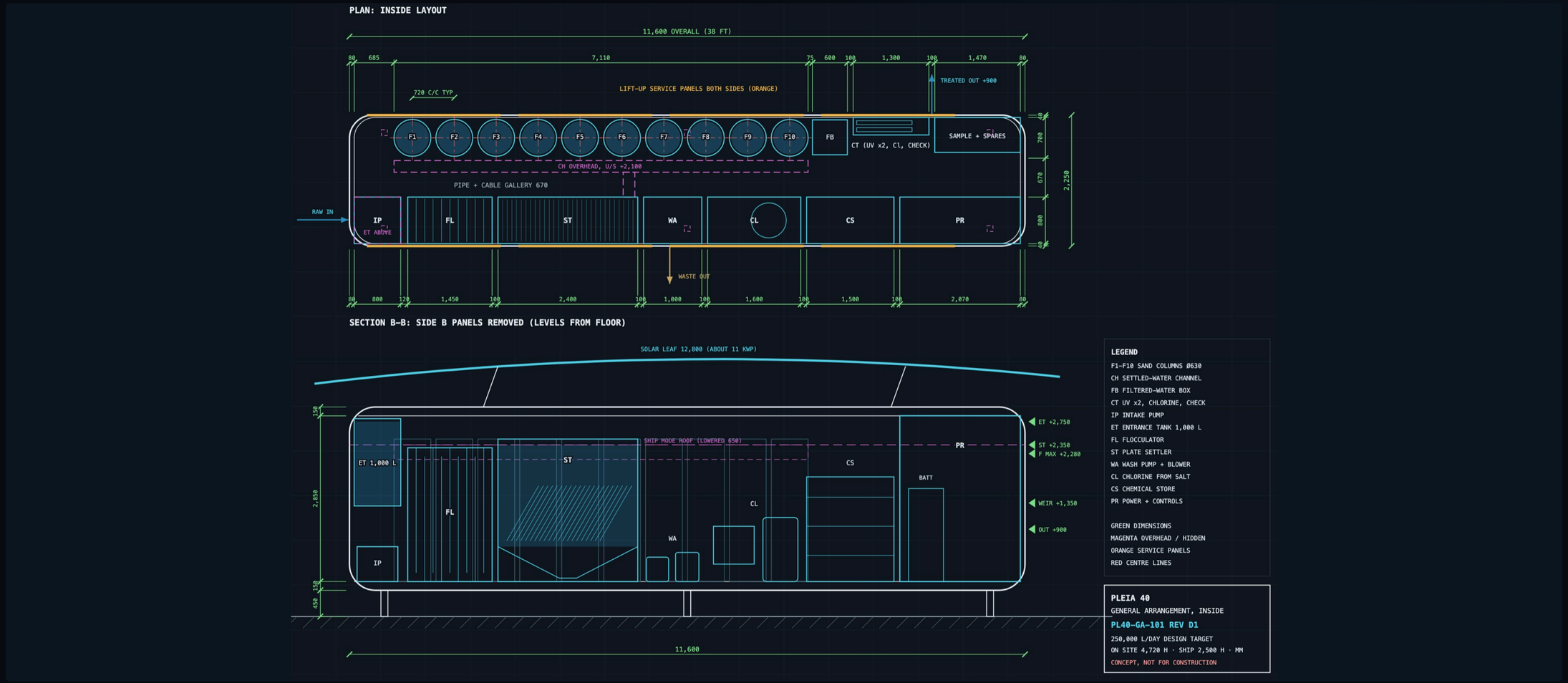
A4 Pleia OS verification test

PER UNIT, PER YEAR	MINIMUM VOLUME
Water billed · 100 m³/day	36,500 m³
Revenue at US$6/m³	$219K
Consumables, energy · $1.00/m³	−$37K
Supervision, visit, insurance, logistics	−$40K
Gross profit	**$142K · 65%**

YEAR	UNITS	REVENUE	GROSS PROFIT	EBITDA	EQUITY	CASH, YE
2027	1	$0	$0	−$1.2M	$2.0M	$928K
2028	10	$1.2M	$784K	−$1.4M	$8.0M	$7.2M
2029	35	$4.9M	$3.2M	−$869K	$0	$6.5M
2030	100	$14.8M	$9.6M	$2.2M	$0	$8.7M
2031	**250**	**$38.3M**	**$24.9M**	**$12.4M**	**$0**	**$20.7M**

Installed cost: unit 1 $250K · 2028 $90K · from 2029 $47K; unit 1 sits inside our cost study's first-build range, later costs to be confirmed with quotes and build data. Team grows 8 → 75. Revenue counts units in the field for part of each year. R&D tax credits ≈ 48% of eligible R&D. Asset finance covers 60–75% of fleet units from 2029. Fleet capex 2027–31: $0.25M, $0.81M, $1.18M, $3.06M, $7.05M.

Management estimates.



Gravity layout. Water lifted once, then falls through treatment.

~2.5 t lighter. Light frame, printed recycled skin.

Ships in a 40 ft box. Roof rises 650 mm on site.

Serviced from outside. No confined space.

COMPANY	CUSTOMER PAYS FOR	OPERATOR	GAP PLEIA FILLS
newterra (Grundfos), **Ovivo / FilterBoxx**	Buy or rent a camp plant	Yes	No operator, no capex
Veolia, **Xylem / Evoqua**	Mobile plant rental	Yes	Built for staffed industrial sites
H2O Innovation, **BI Pure Water**	Plant plus O&M contract	Yes	Community must staff it
Desolenator, **Elemental Water Makers**	Water contract, seawater only	Local	One source, no proof record
Hach Claros, **Pani**	Software subscription	Yes	Watches a plant, doesn't run it
Chinese RO containers	US$66–105K unit	Yes	No autonomy, no verified record
Pleione	**US$6/m³ of verified water**	**No**	**Any source, no operator, every litre proven**

It will not certify *what it cannot measure.*

- ✓ Statement verified with database and network off
- ✓ One digit changed: verification fails, names the file
- ✓ 25% coverage returns INCOMPLETE, not a pass

```
$ pleia-os verify audit-pack/ · db: off · net: off
✓ Manifest · files · hashes · pack hash
✓ Evidence root · statement hash
✓ Ledger chain · 4 entries
✓ Signatures · 4 valid
· Reproduction · coverage 25.1%

RESULT · INCOMPLETE
```

Demonstrated on simulated site data.