



One intake. Four yields.

An offshore platform that pulls seawater once and sells it four times over — as drinking water, firm power, desert fertilizer, and food grown in local greenhouses — starting with an MVP on the La Guajira coast, Colombia.

NOT UNPROVEN TECHNOLOGY

Every major system here already runs at multi-billion-dollar scale.

- **Sundrop Farms** (Australia) — 20ha seawater-fed greenhouse, 17,000 t/yr produce, 300 jobs, 10-year supermarket contract.
- **NEOM Green Hydrogen** (Saudi Arabia, \$8.4B) — solar+wind powering desalination and green ammonia export.
- **Ras Al-Khair** (Saudi Arabia) — 2,400MW cogenerating with 1M+ m³/day desalination.
- **FuelCell Energy** (global, NASDAQ: FCEL) — SureSource fleet in commercial service, with Capture and Hydrogen configurations; hydrogen is a Phase 2 option here.

Full source list and 2 more comparable projects in the companion investor deck.

TEAM & CONTACT

Incubated by an accelerator for humanity-scale ventures, hiring FEED-stage leadership with this round.

Developed at hugoaristides.com — an accelerator backing startups that solve humanity's biggest challenges. This round hires a marine/offshore engineering lead, a desalination process lead, a controlled-environment agronomist, and Colombia environmental-permitting counsel.

ACCELERATOR

hugoaristides.com

SITE

La Guajira, Colombia

LA GUAJIRA, COLOMBIA

Four shortages, usually solved four separate times.

WATER

Chronic scarcity — arid, low rainfall, trucked or over-drawn groundwater.

ENERGY

Strong wind resource, but little firm, dispatchable power.

JOBS

Sandy desert soils and few local employers beyond salt-harvesting.

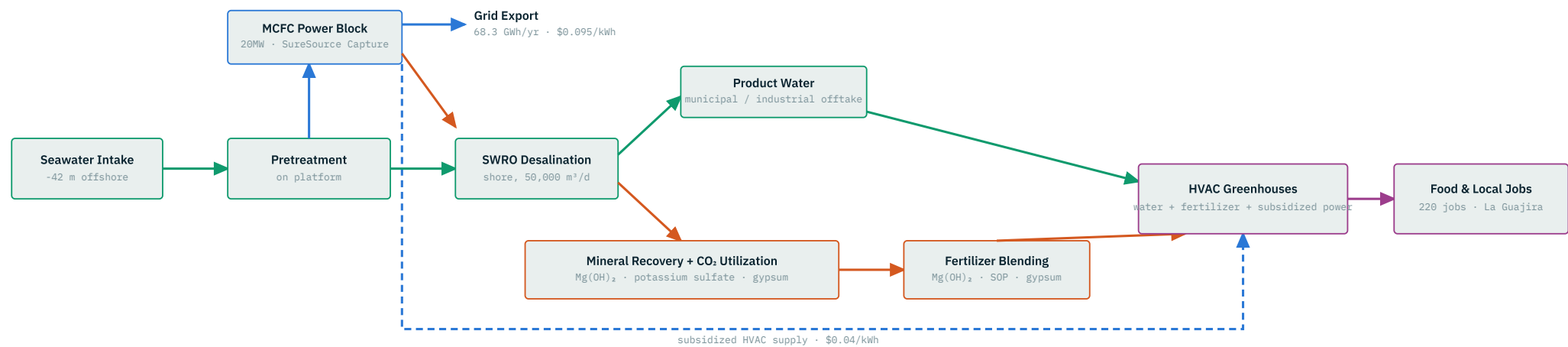
THE INSIGHT

Share the intake, the power block and the site — four plants become one.

A single offshore intake feeds one platform. Its fuel cells power the process and produce captured CO₂ as a byproduct. Onshore, that seawater becomes product water — its leftover brine and CO₂ become fertilizer — and water, fertilizer and power together grow food in HVAC greenhouses that employ the local workforce. Four offtake contracts, one shared piece of infrastructure.

PROCESS OVERVIEW

One seawater intake, four engineered outputs.



MVP site: north of Manaure, La Guajira · strong wind resource, existing salt-harvesting economy, water- and energy-stressed communities.

ILLUSTRATIVE, PRE-FEED — FULL MODEL IN COMPANION DOCUMENT

Stabilized economics, and what \$3.5M unlocks next.

REVENUE LINE	ANNUAL
Product water	\$16.0M
Power export (market)	\$6.5M
Minerals, fertilizer & CO ₂	\$4.9M
Greenhouse produce	\$13.8M
Total revenue	\$41.2M
EBITDA (~48% margin)	\$19.7M

ILLUSTRATIVE CAPEX

\$373M

LOCAL JOBS

~220

USE OF SEED FUNDS (\$3.5M)	AMOUNT
FEED engineering & subsea design	\$0.95M
Pilot demonstration skid	\$0.80M
ESIA + consulta previa	\$0.50M
Permitting (ANLA / DIMAR)	\$0.40M
Greenhouse pilot plot (0.5ha)	\$0.35M
Project manager (FEED-stage hire)	\$0.15M
Core team & operations	\$0.15M
Government & multilateral engagement (Colombia, World Bank, IDB)	\$0.10M
Offtake & commercial development	\$0.10M
Total — 20 month runway	\$3.50M

NEXT STEPS

Government and multilateral engagement, plus a project manager to run FEED.

- Present the project to the Colombian national government (energy and environment ministries) and La Guajira regional authorities.
- Engage the World Bank Group (IFC) and the Inter-American Development Bank (IDB Invest) on blended-finance and advisory support.
- Hire a project manager to lead FEED-stage execution and coordinate vendors.

POTENTIAL VENDORS & CONSULTANTS TO CONTACT

- **IDE Technologies** (Israel) — SWRO desalination EPC, built Sorek and Carlsbad.
- **DNV** (Norway) — marine/offshore engineering & certification.
- **Worley** — global EPC with Colombia & LatAm energy/water delivery.
- **ERM** — environmental & permitting consultancy, Colombia office.
- **INGETEC & HMV Ingenieros** — Colombian infrastructure/water engineering.
- **Priva, Dalsem, Certhon, KUBO** (Netherlands) — desert-climate greenhouse technology.