



INFRABOX Apollo

Autonomous infrastructure systems.

Independent, local, modular. Water, sanitation, energy and control.

10-600

M3 PER DAY

8-4,800

USERS SERVED

16 kW-1 MW+

ENERGY STORAGE

12-20

YEARS SYSTEM LIFE



Utility in a box.

INFRABOX Apollo builds containerized infrastructure that works where the grid does not reach. Each system arrives as a sealed unit, powers itself from the sun, treats and reuses what the site produces, and reports to a remote operations screen. A unit is craned onto a prepared pad and is working within days, not seasons. This portfolio covers the five systems we deliver today.

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Sites beyond the grid pay for isolation twice. Sewage leaves by tanker truck, week after week, on exposed roads. Power arrives by diesel or a connection line priced in the millions. The spending never stops, and it never becomes an asset.



LOGISTICAL
DEPENDENCE

Heavy vehicles and a fixed weekly removal run to and from the site.



SECURITY
EXPOSURE

Every removal is a movement, a route and an operational weak point.



RECURRING
COST

Removal fees continue forever, with no asset and no return.

1.7

RETURN ON
INVESTMENT

276,120 ILS

ANNUAL SEWAGE REMOVAL,
ONE SITE

20,600,000 ILS

GRID CONNECTION LINE
OVER 20 KM



INFRABOX

turns the recurring expense into an owned asset and removes the logistical and security exposure.

Five systems. One platform.

Every INFRABOX product is the same idea at a different scale:
a containerized utility that generates its own power, runs itself and reports home.

1

WASTEWATER TREATMENT SYSTEMS • WW SERIES

Biological treatment from 10 to 600 cubic meters per day.
Reclaimed water to the Israeli irrigation standard.

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2

PORTABLE AUTONOMOUS RESTROOM CONTAINER

Toilets and urinals with treatment and water reuse
built into one unit.

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3

COMPACT WASTE-TO-ENERGY

Solid waste becomes electricity and heat
at camp and facility scale.

PAGE 18

4

MUNICIPAL WASTE-TO-ENERGY

Modular plant lines for city-scale volumes,
built in phases.

PAGE 19

5

INFRABOX COMPLETE

Water, power, wastewater, metering and control
as one local infrastructure.

PAGE 21



CONTAINERIZED
DELIVERY



SOLAR HYBRID
POWER



REMOTE SCADA
CONTROL



DAYS TO
DEPLOY



ONE CARE
FRAMEWORK



SOLUTION 1

Sewage treated where it is made.

WW series · VGW-BF biological treatment · 10 to 600 cubic meters per day

A proven, self-contained treatment plant for sanitary sewage, built on the Vertical Green Wall Bio-Filter method. It serves sources with no power and no sewer connection, and returns effluent that meets the Israeli standard for irrigation.



INDEPENDENT OF INFRASTRUCTURE

Disconnects the site from tanker trucks and the municipal line.



MULTI-STAGE BIOLOGICAL TREATMENT

Treatment finishes with UV disinfection and continuous monitoring.



SELF-POWERED

Solar supply with battery storage and a generator backup.



Three axes of value.

ECONOMIC Economics	OPERATIONAL Operations	SECURITY AND LOGISTICS Security
Removal fees end when treatment moves on site	Less dependence on external contractors	Reduced logistical exposure
Fast return on the purchase	Fewer heavy vehicle movements	Fits remote and forward sites
High annual return	High operational continuity	Minimal dependence on infrastructure
Low total cost across the system life	Full infrastructure independence	Fast deployment, flexible siting



One solution. The dependence ends at the site, and so does the invoice.

From sewage to reclaimed water.

Multi-stage biological treatment: anaerobic digestion, an aerated bio-reactor and a vertical biological wall, finished with UV disinfection and metering.

01 INTAKE



Raw sewage flows in from the septic tanks.

02 GRAVITY SEPARATION



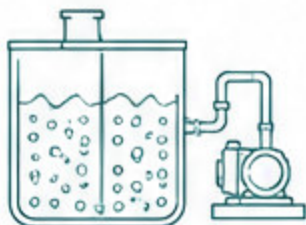
Primary breakdown and solids separation across three tanks.

03 SEWAGE PUMP



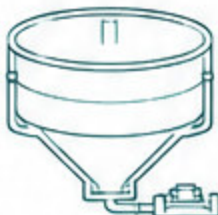
Controlled transfer into biological treatment.

04 AIR-LIFT BIO-REACTOR



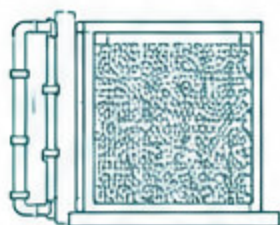
Anoxic and aerobic zones with air blowers.

05 TUBE CLARIFIER



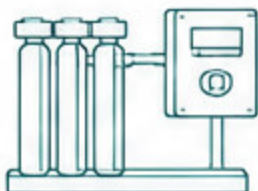
Settling and secondary sludge separation.

06 VGW-BF BIO WALL



A vertical wall with aerobic and algae activity.

07 FILTER AND UV



Disinfection with no chemicals.

08 FLOW METER



Effluent output is measured and logged.

09 REUSE



Water to standard, for controlled irrigation or infiltration.

What arrives with the system.

	COMPONENT	WHAT IT COVERS
	Treatment unit	The complete process inside the INFRABOX unit, filters and UV included.
	Pumps	Sewage and circulation pumps for the whole process.
	Sensors	Level gauge and control sensors for tanks, process and water quality.
	Suction line	32 mm line, up to 50 m from the septic tanks.
	Energy package	Four solar panels, 16 kW storage, generator connection.
	Reuse line	200 m sleeved drip line, 20 mm, or an infiltration bore to 4 m.



**ABOVE-GROUND
INSTALLATION**
no complex excavation



UP TO 50 M
from the septic tanks



16 kW
independent energy storage



Three septic tanks belong to the site sewage infrastructure and are provided by the site.

PREPARED PAD BY CAPACITY, LONG SIDE FACING SOUTH

CAPACITY M3 PER DAY	PAD METERS
5-10	8 x 5
20	8 x 5
30	8 x 5
50	10 x 5
60	12 x 10
120	12 x 12

Each unit carries its own power plant.

SOLAR · CONTROL · STORAGE

680 W

PANEL OUTPUT

25.2%

MODULE EFFICIENCY

30 YR

LINEAR PERFORMANCE WARRANTY

0.35%

MAX ANNUAL DEGRADATION, YEARS 2 TO 30



HYBRID CONTROLLER
Accepts energy from solar, a generator or the grid, in any mix.



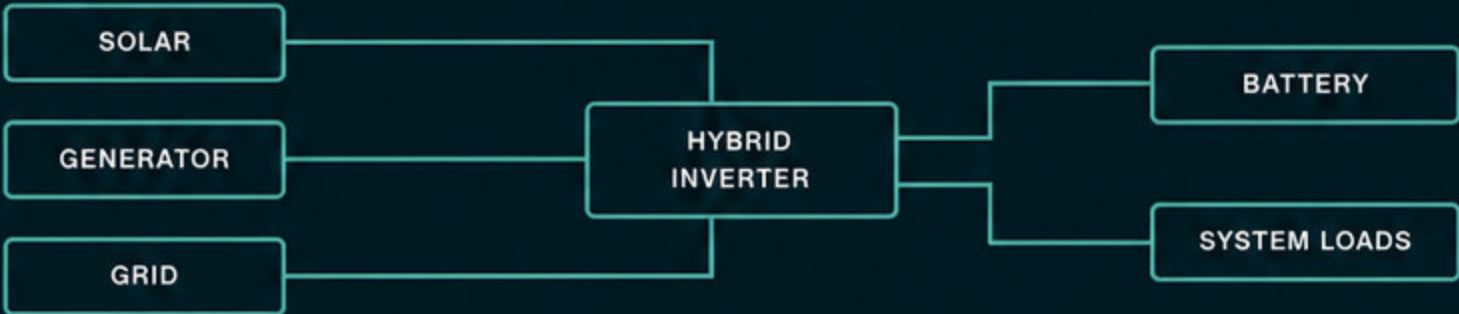
BATTERY STORAGE
16 kW standard, scalable to 1 MW and beyond.



CONTROL UNIT
Electrical cabinet with cyber-secured control and protection.



REMOTE LINK
Cellular communication and microgrid behavior.





Full remote control, in real time.



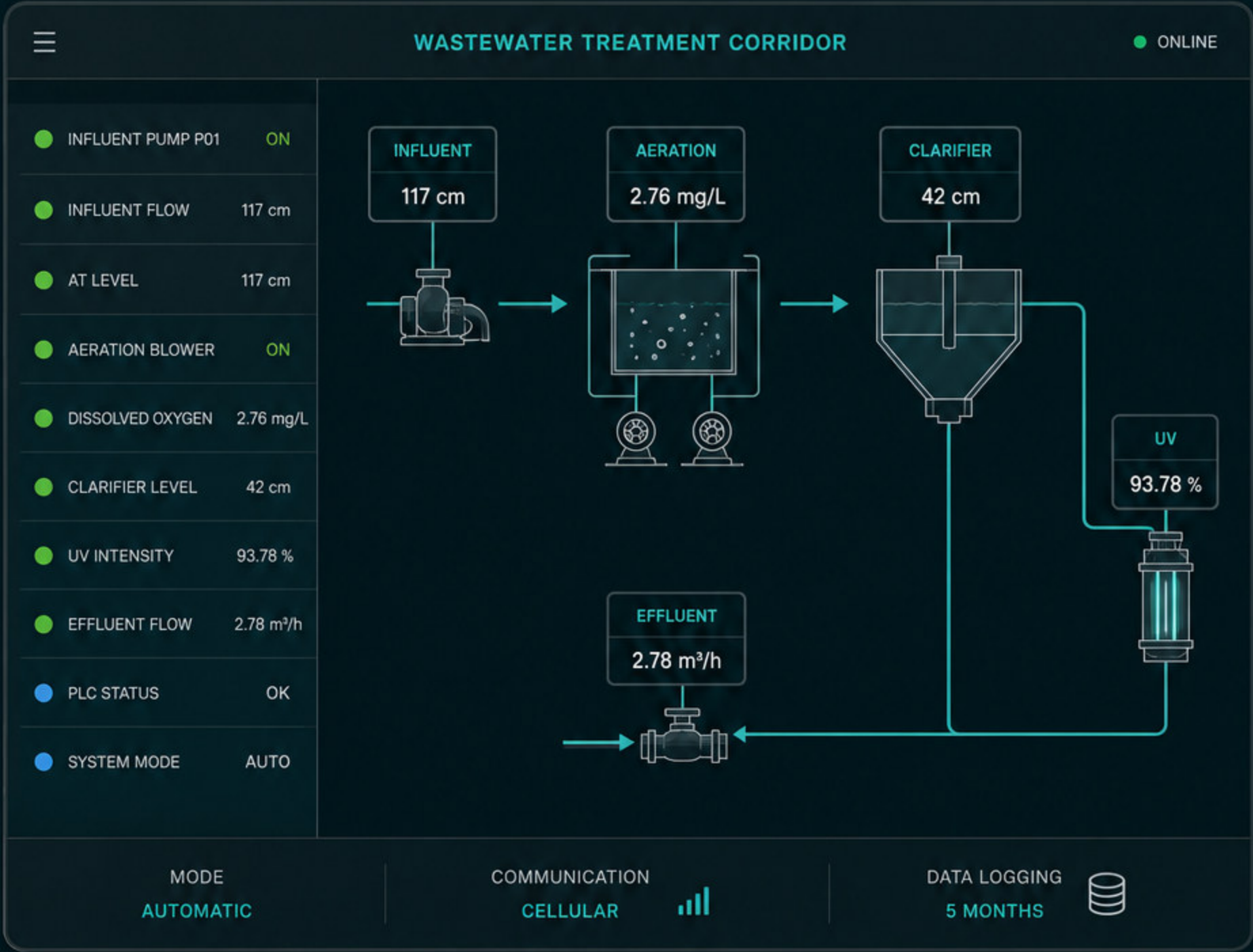
DEDICATED PLC

Automatic control of pumps, blowers and disinfection through the whole process.



CELLULAR LINK

Monitor and operate from anywhere. No one needs to be on site.



System view, illustrative.



REAL-TIME ALERTS

Faults and exceptions are flagged the moment they happen.



NO PERMANENT PRESENCE

Remote monitoring with no standing crew.



FIVE MONTHS OF DATA

System data kept for analysis and tracking.

Tested effluent, against the standard.

Sample of 14.07.2026 · certified laboratory analysis SO261011197 · values in mg per liter

PARAMETER	RESULT	STANDARD
COD	42	100
BOD	<5	20
TSS	<5	30
Anionic detergents	0.26	2
Ammonia nitrogen	4.84	50
Phosphorus	14 ●	12
pH	7.15	8.5

PARAMETER	RESULT	STANDARD
Boron	0.4	0.4
Sodium	70	150
Chloride	133	250
Mercury	<0.0002	0.002
Chromium	<0.025	0.1
Copper	0.011	0.2
Zinc	0.285 ●	0.2

The analysis confirms treatment quality that meets the Ministry of Health regulation for unrestricted irrigation. The two dotted values sit above the average limit and inside the permitted maxima of 17 and 5 mg per liter.





Approved by the military health regulator.

The Army Health Branch of the IDF Medical Corps examined the system as regulator: the technology, the deployment and the effluent it returns. On 2 August 2026 the branch approved the use of INFRABOX local treatment systems in the IDF.



FIELD DEPLOYMENT

Operating at a forward site, replacing weekly tanker removal.



TESTED OUTPUT

Effluent sampled and analysed by a certified laboratory.



SUPPORTED OPERATION

Approval is tied to a support contract: monitoring, spares, response and a removal fallback.

“The local sewage treatment facility is a good solution and an alternative to tanker removal. Beyond the economic saving, it will reduce the sanitary risk of raw sewage reaching the environment and the soil.”

Army Health Branch conclusions,
2 August 2026, translated

Installed and operating in field conditions.



Craned onto the prepared pad



Solar array and storage tanks



Service connections at the unit



Operating at a forward site

Systems and pricing.

Design, supply, installation and commissioning, complete. Prices in USD, excluding VAT.

CAPACITY, M3 PER DAY	EFFLUENT QUALITY BOD TSS	SYSTEM PRICE USD
5-10	20 / 30	191,966
20	10 / 10	261,100
30	10 / 10	312,515
150-200	10 / 10	803,610
250-350	10 / 10	1,303,610
4,000-4,800 - municipal	10 / 10	6,000,000

Every tier includes pre-treatment, controlled and remotely monitored water reuse, and compliance with Ministry of Health standards.

The same VGW-BF technology at every scale, matched to the site and the number of users.



The care framework.

Monthly maintenance and warranty per system. USD, excluding VAT.

CAPACITY, M3 PER DAY	MONTHLY
5-10	1,281
20	1,536
30	2,559
150-250	7,677
Municipal	27,700

INCLUDED Maintained	INCLUDED Service	SITE RESPONSIBILITY Excluded
Control and command panel	Remote technical support	Solids removal, twice a year
Pumps and circulation	Continuous monitoring, five months of data	Vandalism or physical damage
Sensors and monitoring	Automatic fault alerts and remote diagnosis	Vehicle and machinery strikes
Biological process equipment	Certified technician visits	Use outside the operating manual
Valves, piping and energy supply	Operator training as an alternative	Unapproved equipment or changes

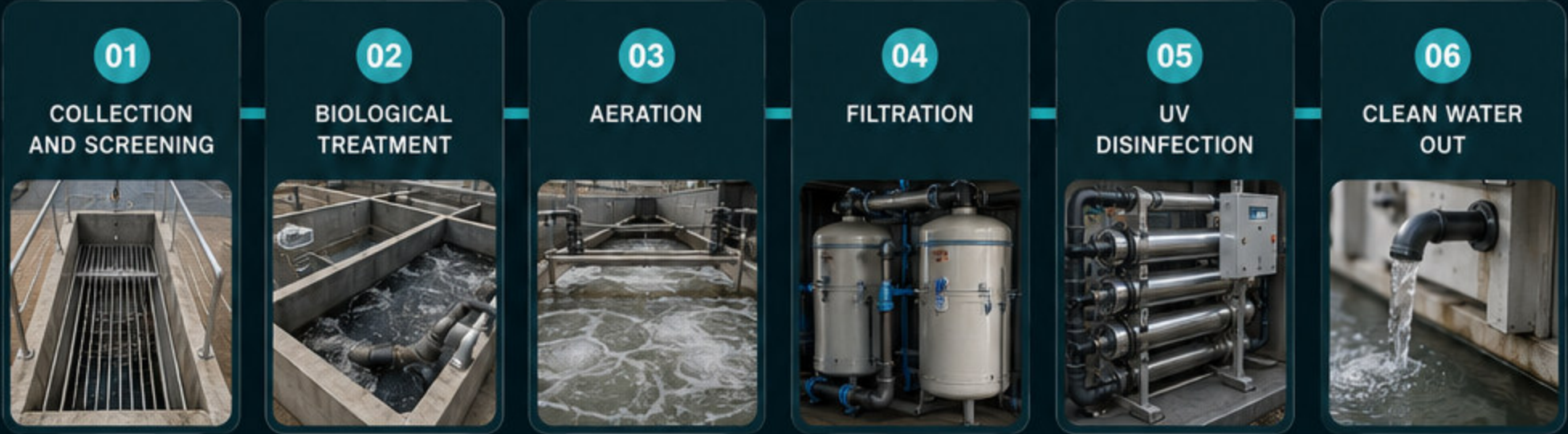
In excluded cases the customer covers parts, labour and transport to return the system to service.



SOLUTION 2

A restroom that cleans its own water.

A complete public restroom and its own treatment plant in one container. Toilets and urinals in front, the full treatment train behind the wall, and reclaimed water ready for reuse on site. Nothing leaves the unit by truck.



DIGNIFIED SANITATION • NO SEWER REQUIRED • WATER REUSE • SOLAR POWERED • RAPID DEPLOYMENT

One neighborhood, planned around **INFRABOX**.



Deployment visualization, coastal neighborhood served from four decentralized pads.

5,000

HOUSES, TWO FLOORS EACH

1,250

HOUSES PER SYSTEM

4

INFRABOX SYSTEMS, DECENTRALIZED

100%

OF REUSE WATER TO GREEN AREAS

Sanitation that arrives with the first residents, not years behind them.



SOLUTION 3

Waste in. Power out.

Compact waste-to-energy system, camp and facility scale

Solid waste is the supply line that never stops. The compact system closes it on site: waste goes in, electricity and heat come out, and what remains is an inert fraction near a tenth of the incoming volume.



Integrated. The unit feeds the same microgrid that powers the site, reports to the same remote screen, and takes the screenings and dewatered sludge of the wastewater systems instead of sending them away by truck.



COMPACT WASTE-TO-ELECTRICITY

Waste to electricity, one tonne per hour.

Shortlisted combustion systems with genuine electrical-energy recovery pathways

Located near waste accumulation areas and at a safe distance from residential neighborhoods, a modular 1 t/h system reduces unmanaged waste while supplying essential energy and thermal services close to where they are needed.

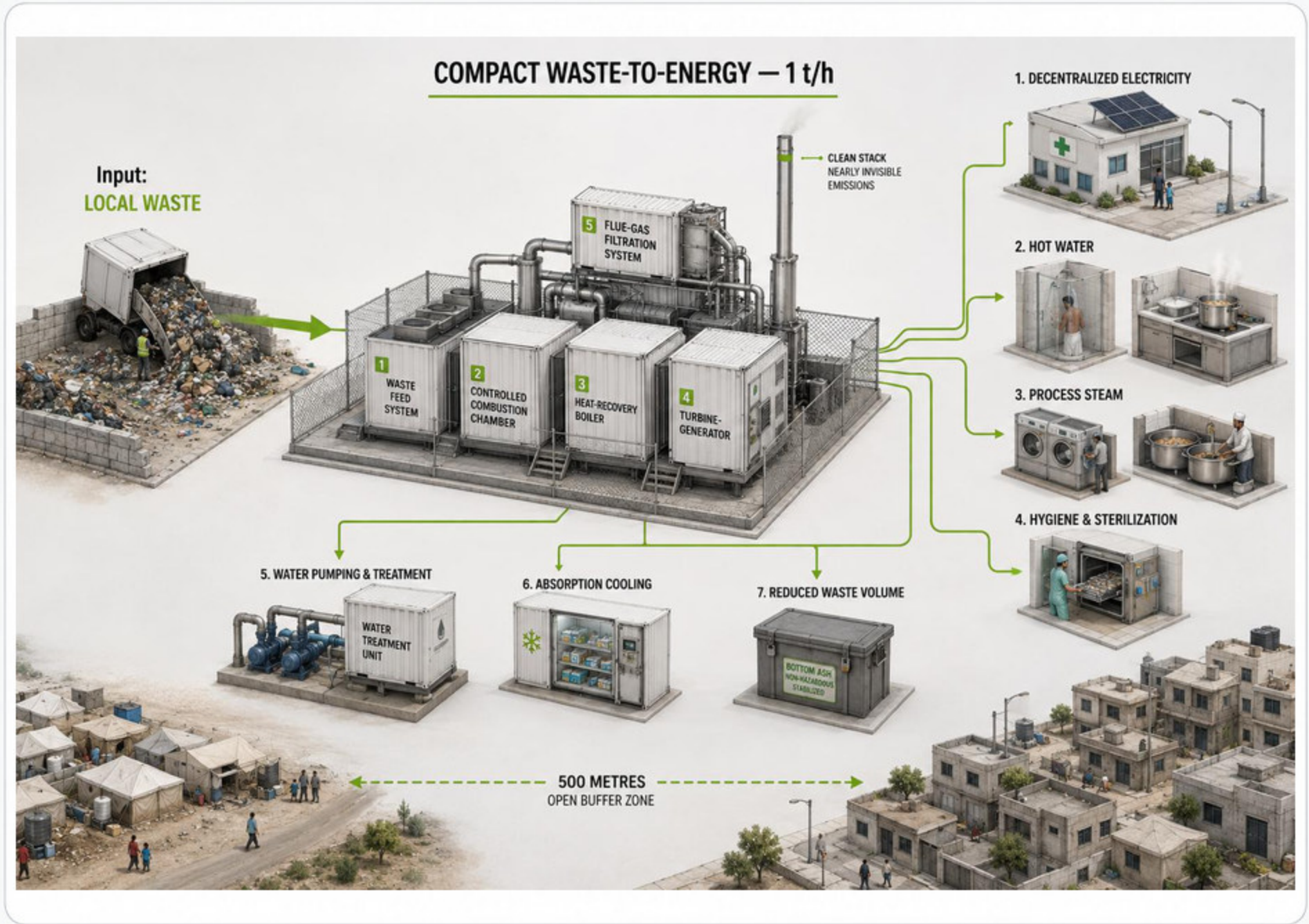


Deployment visualization, Gaza Strip.

~1 t/h WASTE THROUGHPUT	4,000 kWh ELECTRICITY PER DAY	UP TO 16 t PER DAY AT 16 OPERATING HOURS	500 m OPEN BUFFER ZONE
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The complete chain, in one layout.

Waste feed, controlled combustion, heat recovery, turbine generation and flue-gas filtration, with services delivered around an open buffer zone.



REFERENCE CONFIGURATION

one modular unit

~1 t/h

waste throughput

UP TO 16 t/day

at 16 operating hours

Electrical and thermal outputs depend on waste composition and final supplier engineering.



One waste stream. Many services.

Distributed infrastructure: a compact unit near the waste, at a safe distance from homes.

ENVIRONMENT AND PUBLIC HEALTH

- Controlled treatment reduces waste volume and mass
- Lower exposure to odors, pests, uncontrolled fires and contaminated land
- Fewer long-distance collection trips and reduced handling risks

LOCAL ENERGY AND RECOVERED HEAT

- Decentralized electricity for clinics, pumps, street lighting and communications
- Hot water for showers, kitchens, laundries and medical facilities
- Process steam for sanitation and institutional kitchens, optional absorption cooling for medicines and food storage

WATER, HYGIENE AND SANITATION

- Electricity supports water pumping, filtration, desalination and wastewater treatment
- Recovered heat serves processes that require heated water
- Heat and steam support sterilization for humanitarian facilities

OPERATIONAL AND ECONOMIC RESILIENCE

- Reduced dependence on diesel generators and centralized infrastructure
- Lower transport fuel, vehicle demand and operating costs
- Collection, sorting, operation and maintenance create local jobs and technical skills



Deployment visualization, collection rounds and clinic supply on one street.

Validate the Gaza deployment basis.

Convert the concept into a compliant technical specification, a verified energy balance and a final commercial offer.



DELIVERABLE

Validated technical specification and final turnkey quotation.

US\$ 12M

INDICATIVE

The final cost comes from a compliant turnkey quotation.

SOLUTION 4

Municipal-scale waste-to-energy.

The same conversion, built as parallel plant lines for a city's volume. Lines are added as the population grows, so capacity is bought when it is needed rather than guessed at decades ahead.



CONTINUOUS OPERATION

Around-the-clock processing with scheduled line maintenance.



POWER AND HEAT

Electricity to the grid or microgrid, heat for district and industrial use.



PHASED BUILD

Each line is a repeatable module: proven design, predictable cost, shorter build.



RESIDUE AND EMISSIONS

Flue-gas treatment and controlled residue handling to the applicable standard.

For a municipality **rebuilding**, energy from waste turns two problems into one asset.

Where INFRABOX runs.



FORWARD AND REMOTE SITES

Outposts and bases beyond the grid. Proven, approved, operating.



HUMANITARIAN NEIGHBORHOODS

Sanitation and utilities that arrive with the residents.



REMOTE INDUSTRY AND AGRICULTURE

Farms, quarries, resorts and work sites without connections.



GROWING MUNICIPALITIES

Decentralized utilities built in steps, not megaprojects.



SOLUTION 5

Water. Energy. Infrastructure. In one box.

Everything a small settlement needs from the ground, delivered as one coordinated set of boxes. Modules share power, water and data: one pad plan, one commissioning, one screen.



From bare ground to a **working utility.**

01 SITE SURVEY

Loads, users and layout are fixed.

02 GROUNDWORK

Pads poured, tanks set, lines trenched.

03 CRANE DAY

Units arrive complete and are set in place.

04 COMMISSIONING

Connections made, systems tuned, operators briefed.

05 REMOTE OPERATION

The site runs itself and reports home.



WHAT IT REPLACES

A connection line priced in the millions, years of civil works, tanker and diesel logistics, and a standing technical crew.



HOUSING AND INFRASTRUCTURE, DELIVERED TOGETHER

A neighborhood that arrives with its own utilities.

Shelter, water, power and sanitation planned as one delivery, for sites where the networks are gone

Reconstruction normally waits on infrastructure. Mains, sewers, substations and treatment works take years to rebuild, and they are the first things a conflict destroys. INFRABOX reverses the order. The utilities arrive with the houses, on a prepared pad at the edge of the site, and the neighborhood is live for the first family that moves in.



Deployment visualization, Gaza coastal strip: one pad, new housing, reclaimed water to field crops.

200 FAMILY HOMES PER PAD	1.5 MWh BATTERY STORAGE	300 m SETBACK FROM HOUSING	4 LOCAL UTILITY NETWORKS
--	---	--	--

Two hundred families, and what serves them.

One INFRABOX pad set back 300 meters, four networks running under the streets, and the public buildings a community needs on the day it opens.



Deployment visualization, 200-family reference neighborhood.

COMMUNITY BUILDING	PROVISION
Mosque	550 square meters
Community center	Ten classrooms, meeting hall and offices
Shops	Four units, 400 square meters
Kindergarten	160 square meters
Clinic	80 square meters

POTABLE WATER • ELECTRICITY • SEWAGE • RECLAIMED WATER



The site is live before the mains are.

Every building connects to four local networks that begin and end inside the neighborhood.



POTABLE WATER

Treated, chlorinated and metered supply to every building, from a local source or delivered stock.



ELECTRICITY

Rooftop solar on every roof, gathered into 1.5 MWh of storage behind a hybrid controller.



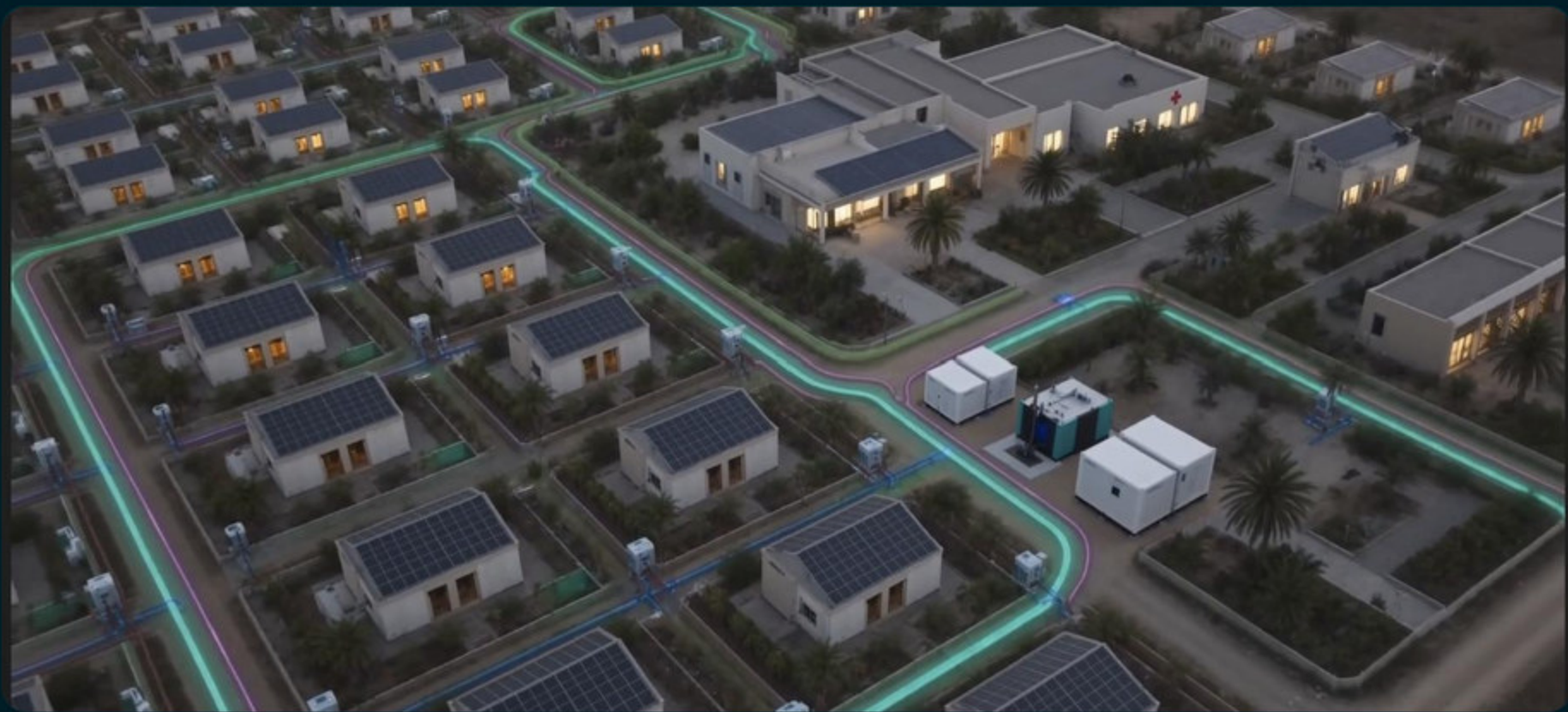
SEWAGE

Gravity collection to the treatment pad. No tanker route, no open discharge, no standing pit.



RECLAIMED WATER

Treated effluent measured out to field crops and green areas at the far edge of the site.



Deployment visualization, the four networks after dark.

PARTNER TECHNOLOGY

Houses built as fast as the utilities.

SABS, the Saebi Alternative Building System: a foam-core concrete structure that replaces timber framing.

XTRATA is a construction technology company based in the United States. Its panels are expanded polystyrene cores faced with a proprietary cement-based composite, shipped flat and assembled on site. A trained local crew raises the envelope without heavy plant, in a fraction of the time a block and render house takes, and the finished wall insulates far better than the wall it replaces.

0%

FLAME SPREAD

15-20%

AVERAGE COST SAVING

250 MPH

HURRICANE AND TORNADO RESILIENT

15-20%

FASTER BUILD TIMES

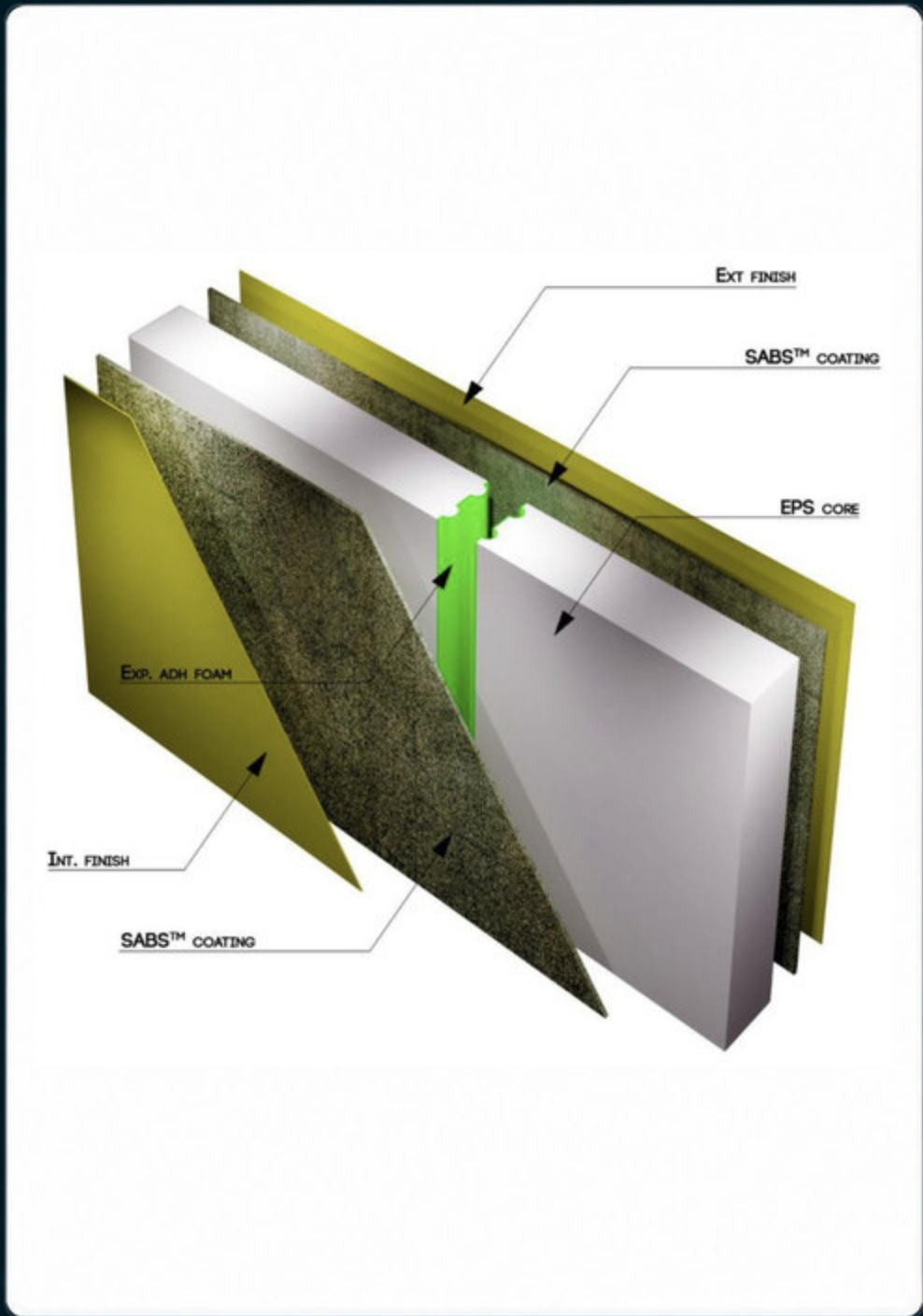


SABS structure, complete envelope before finishes.



One panel, five layers.

The wall is an expanded polystyrene core between two cement-composite faces. It carries the load, insulates and takes its finish as one component.



- 01

EPS CORE
Expanded polystyrene: the insulation and the form.
- 02

SABS COATING
Cement-based composite on both faces, applied to structural thickness.
- 03

ADHESIVE FOAM
Expanding foam locks panel to panel at every joint.
- 04

EXTERIOR FINISH
Render or cladding chosen for the site and the climate.
- 05

INTERIOR FINISH
Plaster or board straight onto the coated face.



Panel-built housing under construction, envelope complete in days.

One program, two halves of a neighborhood.

XTRATA builds the envelope. INFRABOX makes the site work.
Both are planned, delivered and commissioned on one schedule.

PARTNER

XTRATA delivers

- Structural panels manufactured and shipped flat
- Houses, clinic, school, shops and mosque from one system
- Local crews trained on the assembly method
- An insulated envelope built without heavy plant
- Cost and schedule fixed against a repeatable panel

INFRABOX APOLLO

INFRABOX delivers

- Solar generation, storage and hybrid control
- Water treatment and metered distribution
- Wastewater treatment with reclaimed water for irrigation
- Solid waste to electricity where the volume justifies it
- One control plane: remote operations, alerts and data



Deployment visualization, one INFRABOX pad serving a neighborhood.

Together. A government or a developer buys one program,
and the neighborhood works on the day the families arrive.



The case, in one page.

1

AN ASSET, NOT A FEE

Buying the system ends the removal invoice and leaves equipment the site owns.

2

PROVEN WHERE IT IS HARDEST

Operating at forward military sites. Approved by the Army Health Branch. Effluent tested to the standard.

3

AUTONOMOUS BY DESIGN

Solar power, storage and remote control keep crews off the road.

4

ONE SUPPLIER, ONE FRAMEWORK

Five systems on one platform, under one care contract.





INFRABOX Apollo



UTILITY IN A BOX

Water. Energy. Infrastructure. In one box.

FOR DETAILS

infraboxapollo.com

Distributed infrastructure for independent sites:
outposts, bases, neighborhoods and remote facilities.

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