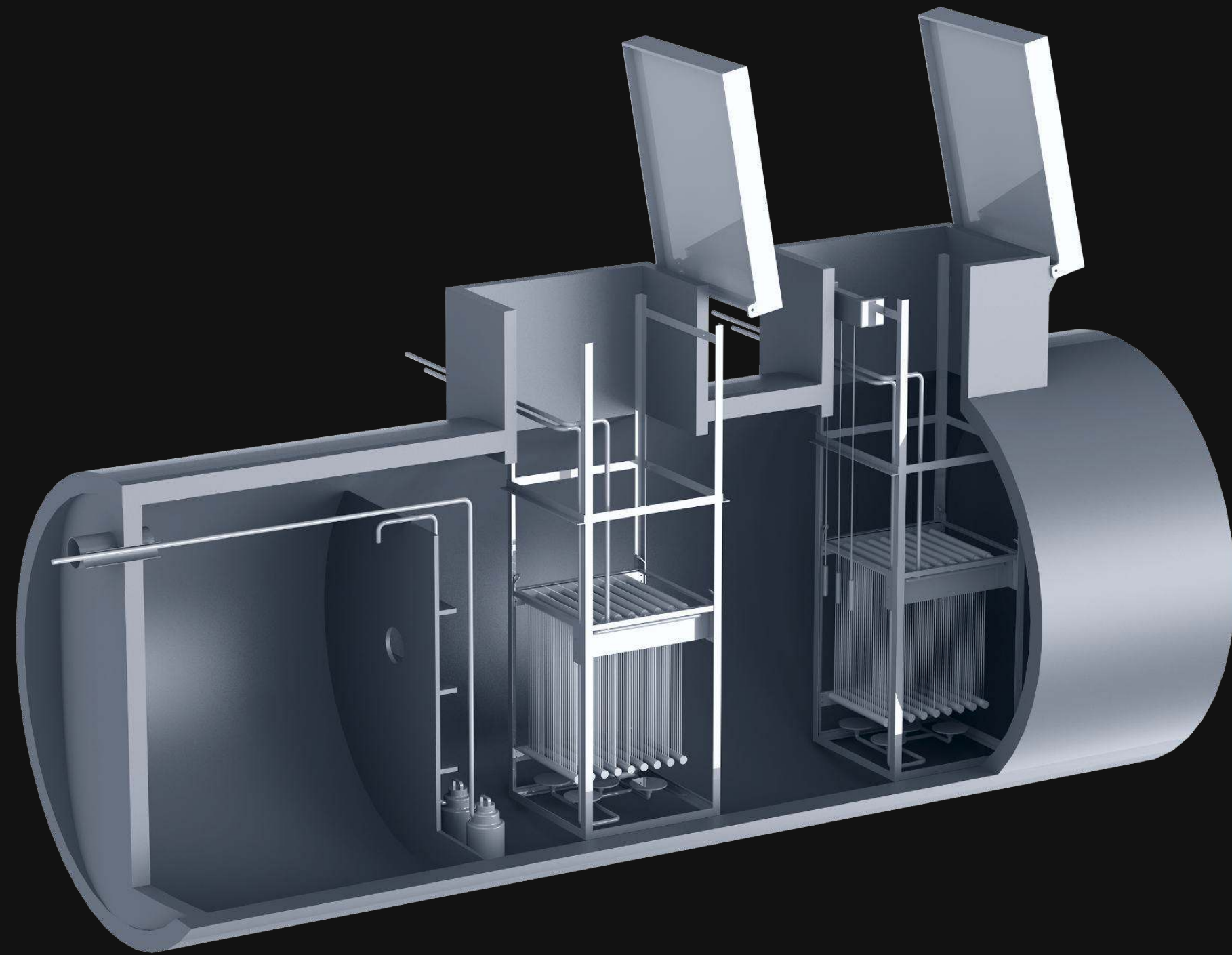


Case studies

Adila Resort



The set up

Adila Retreat Center is entirely off the grid and located in a delicate nature preserve

with highly seasonal wastewater generation.

Underground wastewater treatment and reuse system for $< 15\text{m}^3/\text{day}$

Resort with daily wastewater volumes changing for up to $15\text{m}^3/\text{day}$

Effluent reuse for irrigation/discharge in a resort in a natural reserve

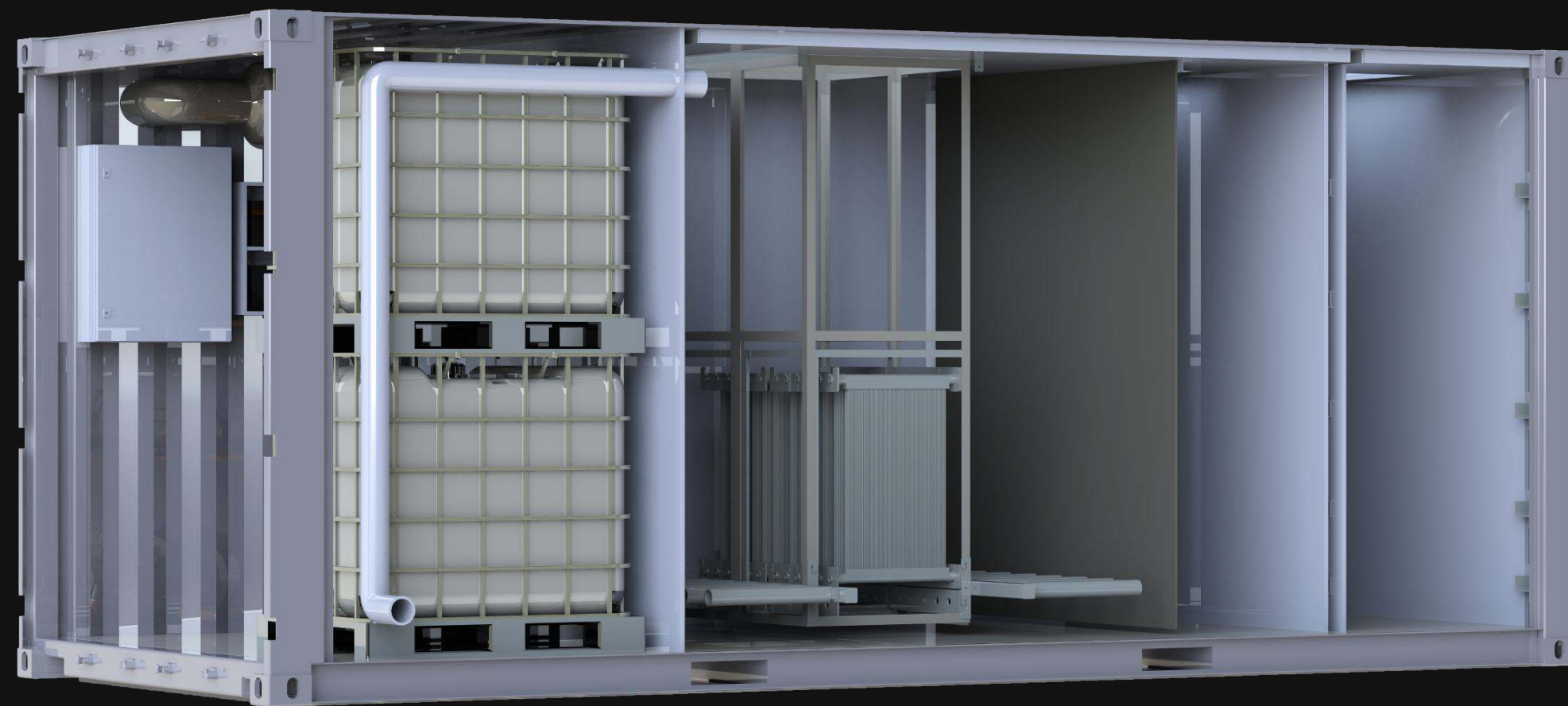
The system is operated and maintained by Spacedrip



Adila Resort



Uhuru Park



The set up

Inadequate wastewater treatment infrastructure in Nairobi leads to water pollution and health hazards, worsening the city's growing water scarcity issues

The all-in-one system is fitted into a 20ft container
Public sewage is treated for reuse for park irrigation, cutting the total water supply

The system treats up to 50m³ of wastewater and cuts 30% of the irrigation needs of a 13-hectare park

Partly powered by solar energy



Uhuru Park, Nairobi



U.S. Army



The set up

Defence forces face increasing costs and logistical difficulties in supplying water to expeditionary forces in off-grid and hostile environments.

Mobile closed-loop water reuse systems for exercises and expeditionary deployments

Up to 1.3m³ of greywater is reused in a day for showers, tap water, and laundry in closed-loop. Wastewater is reused for toilet flushing in a loop

U.S. Army ordered 2 Spacedrip ATWRS systems in 2023. The systems were commissioned during the African Lion 2023 exercise in Morocco. Follow-up contracts in progress.



U.S. Army



GDS



The set up

Rapidly deployable closed-loop containerized system delivered to Global Defence Solutions in Australia.

Integrated membrane bioreactor, reverse osmosis, UV, and chlorination for optimal potable water.

A compact solution housed in a 10-foot sea container, the system treats 1500 liters of wastewater daily

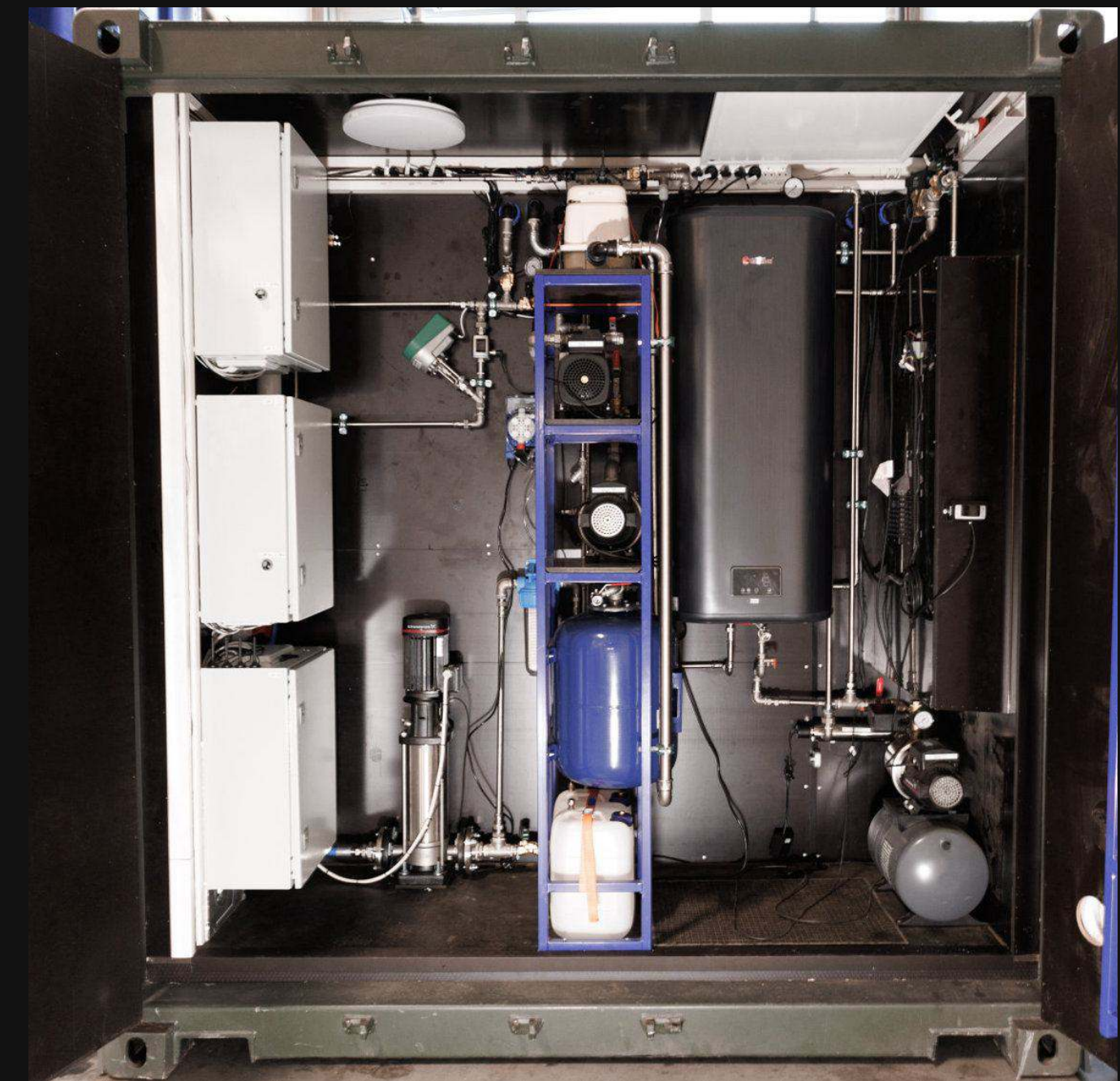
Engineered for -25°C to 45°C

With daily power consumption of 25 kWh, momentary max power consumption of 15 kW, and weighing 2800 kg

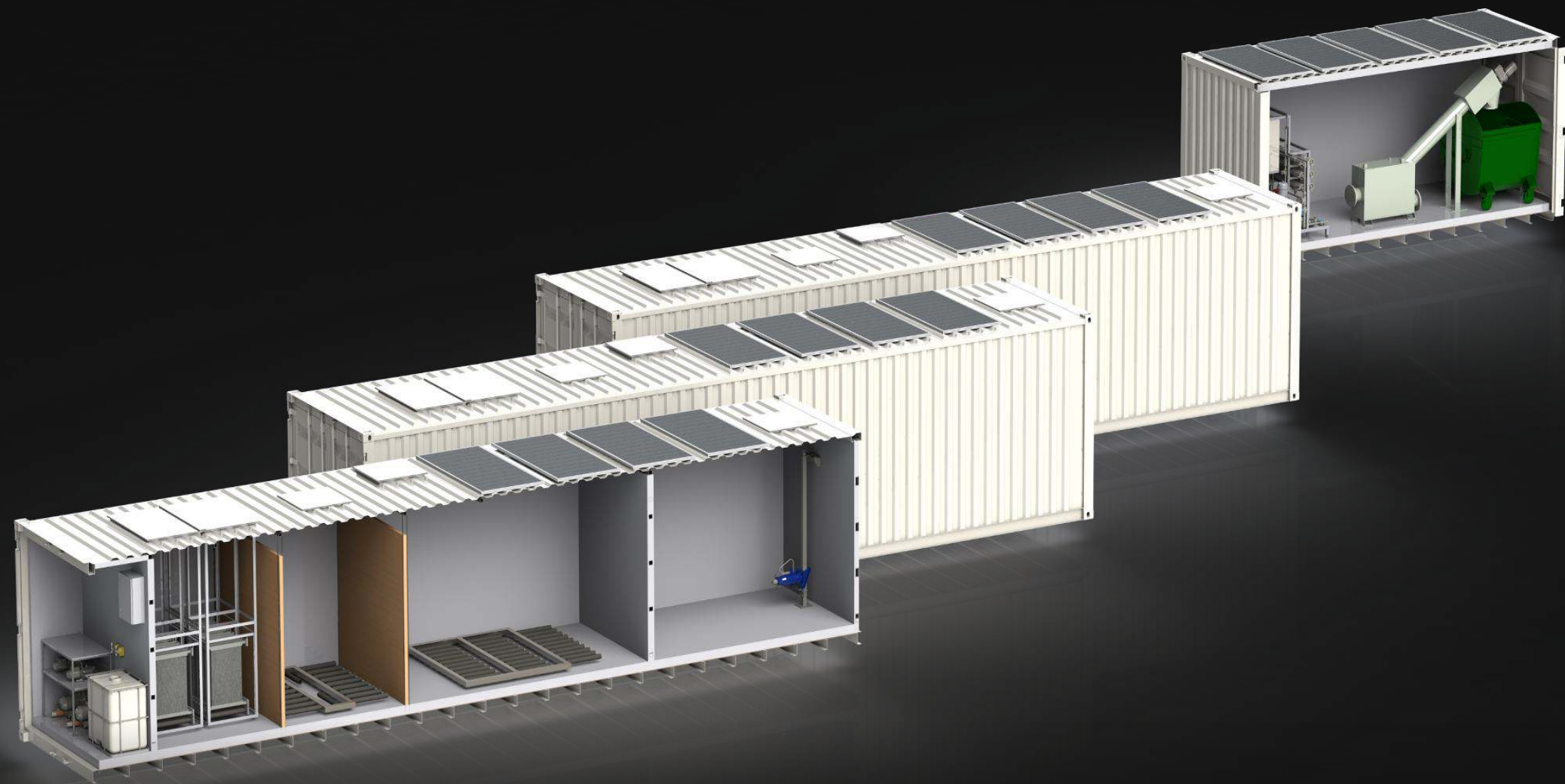


rapid series

GDS



Jägala Estate



The set up

Spacedrip addresses wastewater challenges in a new housing development of 1200 people

Modular 40-foot containerized systems equipped with automation and sensors

Treated water can be reused for non-potable and potable applications.

The system treats and reuses up to 120m³ of wastewater daily, producing 9m³ of potable water.

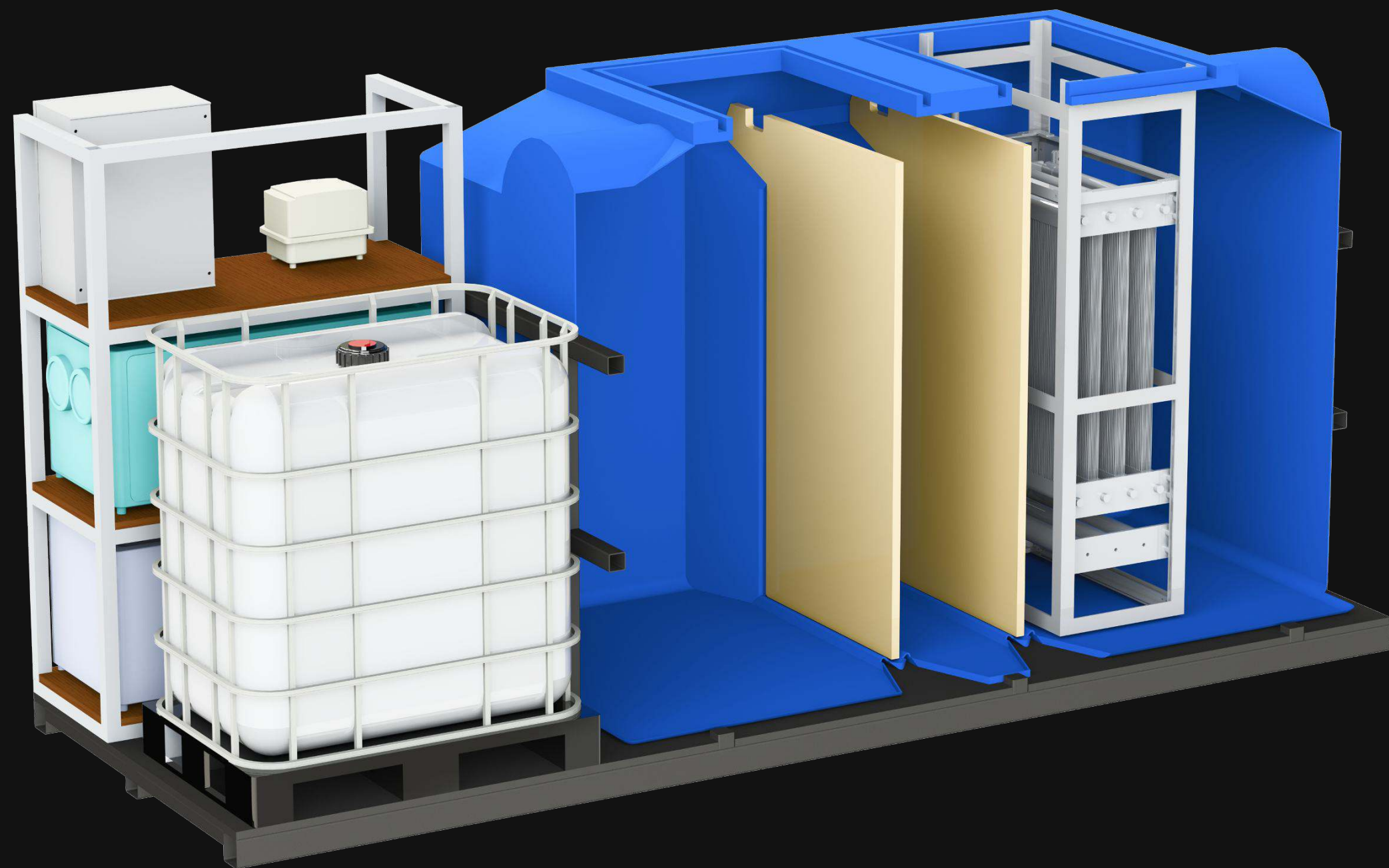
Power consumption of 240 kWh/day



Jägala Estate



Loo Pilot



The set up

Water circulation pilot project. Completely off the grid closed-loop system that circulates water in the office for 50 people

Treated wastewater is reused as non-potable water for toilet flushing, and potable water for drinking, dishwashing, etc

System volume: 4.3 m³ bioreactor + 1 m³ non-potable buffer tank + 1 m³ potable buffer tank

Energy consumption ranges from 1.9 to 5.6 kWh/m³



Loo Pilot



Circle K



The set up

The gas station had sedimentation tanks that needed weekly emptying. The customer wanted to eliminate these costs by replacing them with a wastewater treatment plant.

The system is a compact, automated wastewater treatment system using membrane bioreactor technology, handling up to 5m³/day.

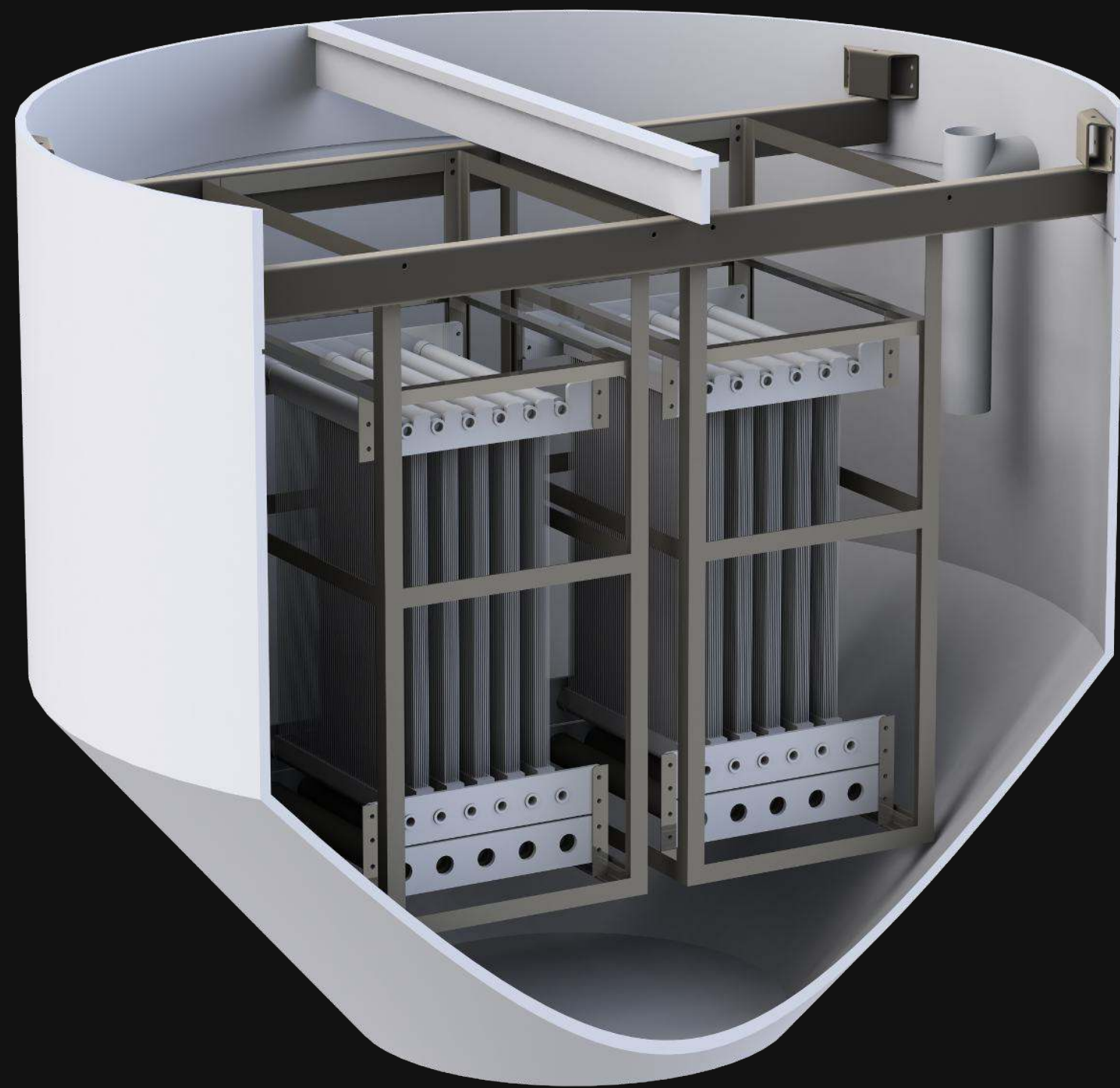
The system includes mechanical treatment with a sedimentation tank, biological treatment with a membrane bioreactor, and an infiltration field for discharging microfiltered wastewater.



Circle K



Surju village



The set up

Surju village faced operational difficulties with its wastewater treatment facility, needing reconstruction while preserving the existing infrastructure.

Difficulty in connecting to canal infrastructure

Spacedrip implemented automated wastewater treatment system for 250 people

Treated water directed to nearby Reiu river

Energy consumption ranged from 1 to 1.5 kWh/m³, aligning with project's goals



Surju Village



Tactical Foodpack



The set up

The Tactical Foodpack factory in Germany processes freeze-dried food. Currently, the ice and wastewater generated during this process are being sent to the sewage system, posing environmental concerns.

Spacedrip implemented a 10ft containerized system, treating freeze-dried food process wastewater and repurposing it for packaged mineral water and office consumption.

Mobile treatment plant is easily plugged into the production line.

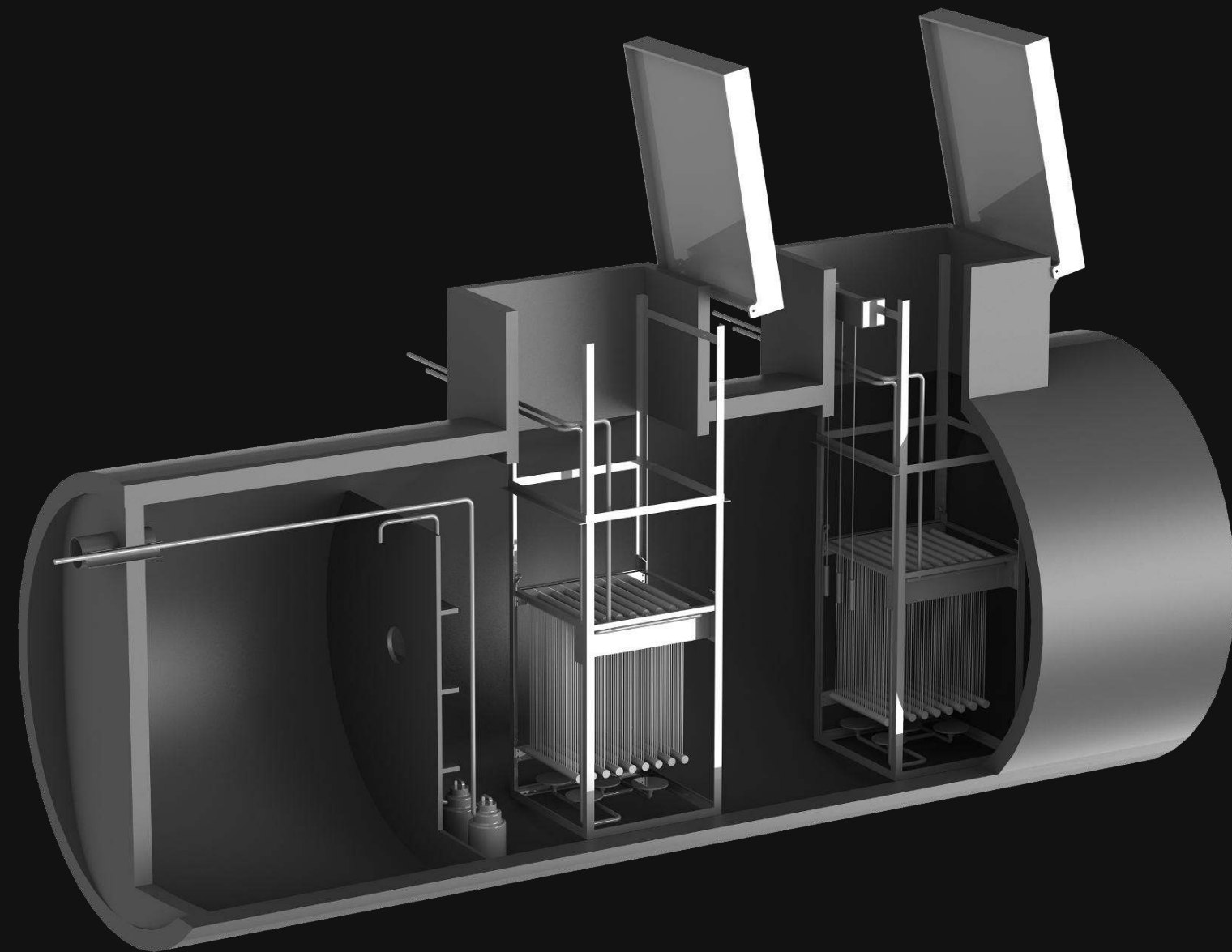
The system treats and reuses up to 1.5 cubic meters of wastewater per day



Tactical Foodpack



Vasknarva Port



The set up

A small harbour next to a sensitive natural environment requires high-standard wastewater treatment for its newly built harbour building.

We installed an MBR-based system for 30 people in an underground tank, producing non-potable water for reuse in toilet flushing and technical applications.

The system treats up to 5 cubic meters of wastewater daily, with a power consumption of 3 kWh/day.



Vasknarva Port



Naissaare Port



The set up

An island harbour requires high-standard wastewater treatment and water reuse to minimize water demand, treating wastewater for 30 people and ships

An MBR-based system in a single underground tank was installed, treating harbour and ship wastewater to produce non-potable water

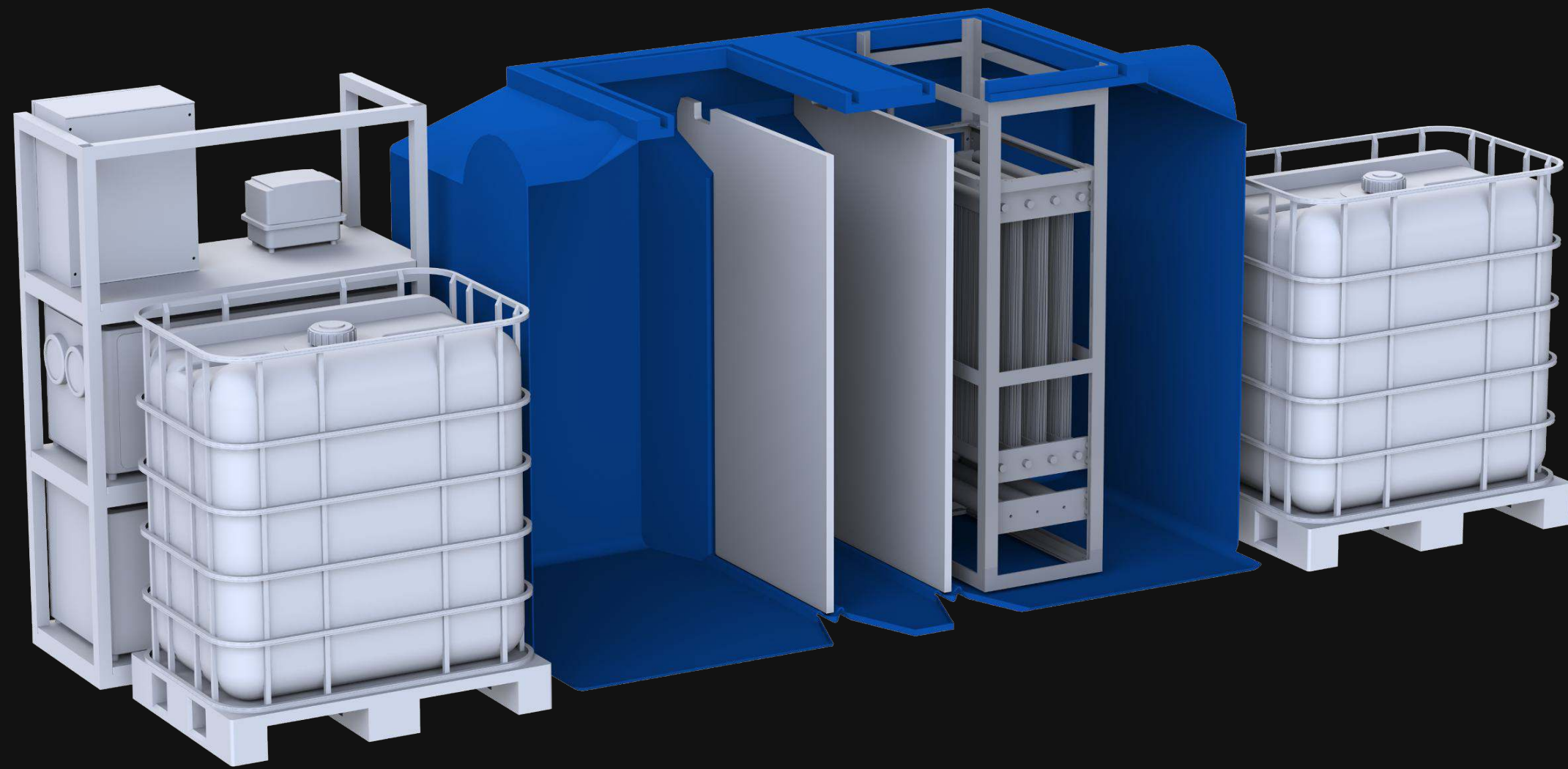
The system treats up to 5 cubic meters of wastewater daily with a power consumption of 3 kWh/day, demonstrating effective off-grid operation and water reuse



Naissaare Port



Papermill



The set up

Wastewater treatment was insufficient and no water reuse solutions in Rappin paper edge protector production

A containerized system was implemented for wastewater treatment and water reuse. The pilot system treats and reuses up to 1.5 cubic meters of wastewater per day

Spacedrip is going to offer full-scale solution to treat and reuse up to 240 cubic meters of wastewater per day, installed into 5 pcs of 40ft containers

Spacedrip provides pilot systems for industries to test before full-scale projects

Brewery



The set up

The aim is to achieve brewery ESG targets by reducing water consumption

An all-in-one system housed within a 40ft container with MBR and reverse osmosis technology was implemented

Automated process management through advanced sensors and software

Treated water is used for tank cleaning, filter washing, and can rinsing operations.

The system treats and reuses up to 97 cubic meters of wastewater daily

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