



LaLiga

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HYDRALOOP®

USE WATER TWICE

How decentralized water reuse saves 25-45% on water and wastewater in La Liga training facilities



Water is life – without it, we have no future

The impact of climate change and demographic change are shaping the future of Spain – water scarcity is now a fact of life, in society as well as in sports.

Disappearing lakes, dead crops and trucked-in water: Drought-stricken Spain is running dry

'The country is becoming a desert': Drought-struck Spain is running out of water

Spain is running out of water. After a long and painful drought, the country has been hit by an unusually early heat wave, evaporating even more of the "blue gold" it still has left in its reservoirs. While farmers fear for their survival, environmentalists say it is time for "Europe's back garden" to rethink how it uses and manages its increasingly scarce water supply.

Residents in southern Spain face drinking water shortage amid persistent drought

Catalonia limits water use as Spain prays for rain

If we want to solve it, Europe's water crisis should be treated at the local level



View of the Sau rese



Water scarcity: Spain's new drought measures threaten mass job losses



Emerging water stress

Over the last few years, climate change is causing severe droughts in Spain. The hydrologic cycle provides insufficient supply for demand. Water stress is an emerging challenge in Spain and in many countries over the world.



Ongoing urbanization

In 30 years with 2 billion more people, 60% of the world will be living in urban areas. Without changing our behavior, we will need 55% more water than today. This leaves future generations insufficient water supply for any acceptable comfort of living.



La Liga challenge

La Liga and its clubs are looking for innovations that meet EU standards for environmental sustainability in sports. Lowering water consumption and realizing sustainable new-builds or retrofits are core goals that Hydraloop can help reach.



Act wise,
use water twice



Every building has its own water source



[Click photo for video 'Hydraloop Introduction'](#)





How Hydraloop works

Collect lightly contaminated greywater

Hydraloop collects water from baths, showers and washing machines as well as condensation water from tumble dryers, heat pumps and air conditioners.

Clean the greywater at the source

Hydraloop's sustainable technology treats the greywater in six cleaning steps, resulting in clean, clear, safe, certified and disinfected reusable water for non-potable use.

Reuse the cleaned water

Reusable water is distributed to toilets and washing machines and used for irrigation of pitches and gardens and/or topping up swimming pools.



The treatment process

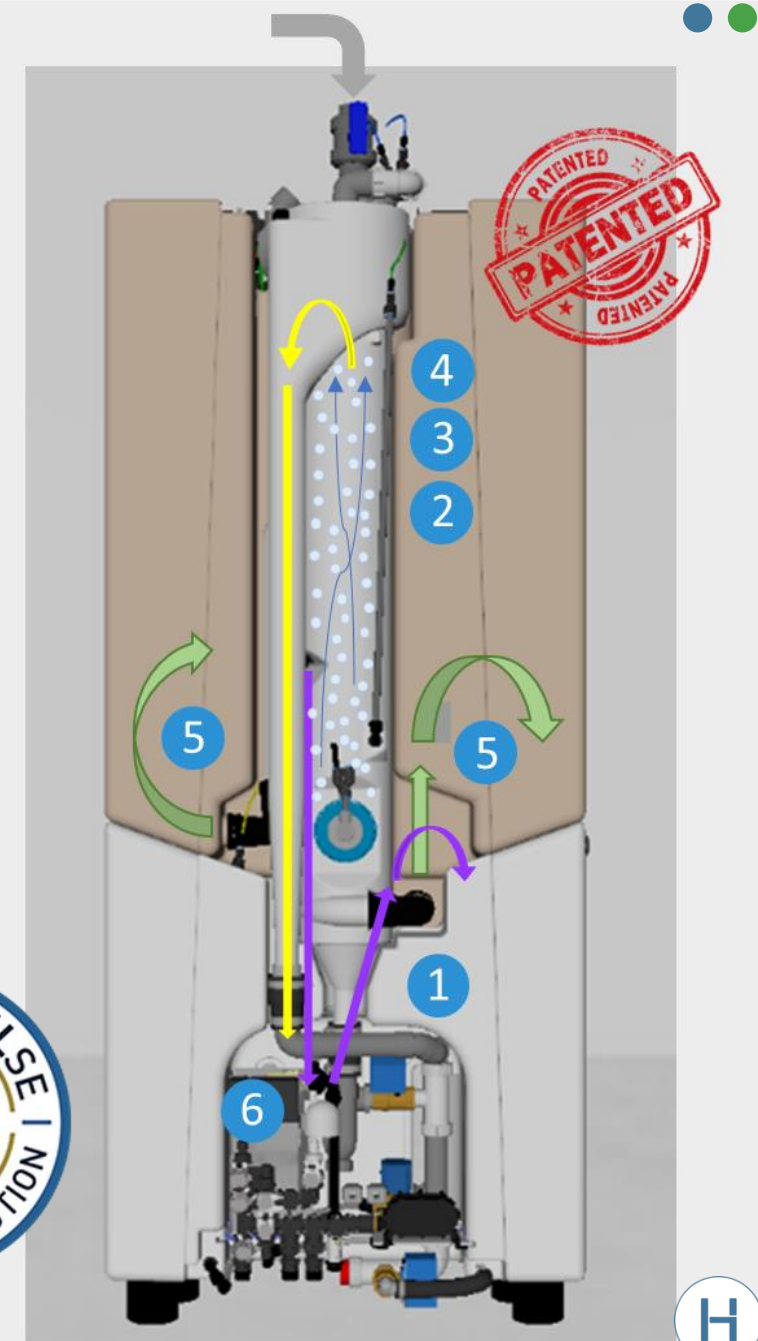
Without the use of chemicals, filters or membranes

Controlled by a central processor and the smart use of air pressure to stimulate the law of communicating vessels, the following sequential treatment processes apply:

- 1 Sedimentation**
Sediment is collected at the bottom of tank
- 2 Floatation**
Floating dirt (hair, soap) is purged via the central skimmer into the sewer
- 3 Dissolved air floatation**
Tiny air bubbles will travel upwards, collecting small particles
- 4 Foam fractionation**
Soap and suspended solids are skimmed off
- 5 MBBR**
Biological treatment by aerobic bioreactor
- 6 UV disinfection**
Every 4 hour by UV-light

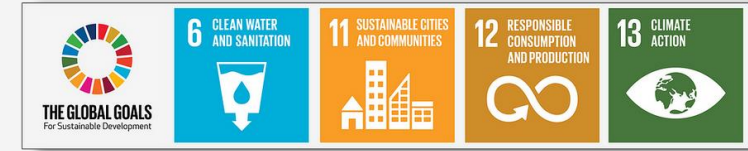


Certified to
NSF/ANSI
Standard 350



Hydraloop's solution principles

Leverage extreme decentralized water reuse



Safety first



At any time, Hydraloop delivers reuse water that meets the highest safety standards, like NSF/ANSI 350 Class R and European Standard EN16941-2

Minimal footprint



Extreme decentralization implies installation in buildings with high square meter costs. Devices are compact, affordable, and include storage capacity.

Low maintenance



The device is self-cleaning and sustainable, demanding treatment without filters or membranes, or use of chemicals.

Internet connectivity



Each device has a connected Electronic Control Unit (ECU), offering user-friendly controls per app, remote support, and over-the-air software updates.



Modular design

A stylish design as well as a modular approach for scaled-to-measure supply.



Automatic backup procedure

All processes are controlled electronically. The device switches to use of tap water when running out of reuse water, or system disturbance.



Safe air gap

Tap water switch via a safe air gap according to EU, USA & AU standards



Distribution

Treated water is distributed by a low noise water pump and controlled valves



Hydraloop water quality and certifications

Reuse water meets stringent international quality standards for reuse as non-potable water

Water quality



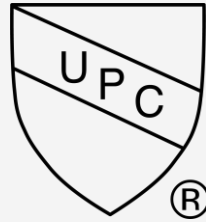
Certified to
NSF/ANSI
Standard 350



Electrical safety



According UL 979



Sustainability



NSF/ANSI 350 requirements		HYDRALOOP average results	
CBDO5 (mg/L)	< 10	CBDO5 (mg/L)	6
TSS (mg/L)	< 10	TSS (mg/L)	3.3
Turbidity (NTU)	< 5	Turbidity (NTU)	2.3
E. coli (MPN/100mL)	< 14	E. coli (MPN/100mL)	< 1
PH (SU)	6.0 - 9.0	PH (SU)	6.0 - 9.0

Product portfolio

For residential and commercial real estate



Hydraloop 300

For single-family housing with 4-5 persons

Hydraloop 600

For larger communities up to 10 persons



Modular and scalable made-to-measure

Hydraloop Cascade

For multi-family housing, hotels, offices, laundrettes, student housing, sports facilities, airports, and more



Behind the wall

Hydraloop Concealed

For 1-3 person households, apartments, tiny houses and retrofitting



Hydraloop in sports facilities

Football club VV ONT, Opeinde, Netherlands



[Click photo for video 'Greening the Sports with Hydraloop'](#)

Amateur football club with 600 members. Board is dedicated to sustainability and member equality.

Hydraloop Cascade 1800/6 collects water from showers for reuse in toilets. Water savings January 2023: 16.000 liter

Awarded 'Sports Facility of the Year' 2023 by NOC*NSF for sustainability and greywater recycling.



Hydraloop in sports facilities

Premier League club Cambuur, Leeuwarden, Netherlands



Professional football club from Leeuwarden, playing in the Dutch Premier League. New build of stadium and training facilities in 2023/2024.



Under development: Hydraloop Cascade 1800/3 collects water from showers for reuse in toilets.

Projected water savings: 2.000 liter per day, up to 600.000 liter per year.



Hydraloop in sports facilities

Modular, scalable and made to measure

Calculator

Welcome

Commercial: Other Project

Variable water price: 0,00 €

Variable waste water price: 0,00 €

Unit price H300: 0,00 €

Unit price H600: 0,00 €

Water unit: Liters

Choose a valuta: Euro (€)

HYDRALOOP CALCULATOR

1.0.8

Which input water will be cleaned and recycled by Hydraloop?

☐ Water from shower

☐ Water from bath

☐ Water from hand basins

☐ Condensation water from tumble dryer

☐ Condensation water from air conditioning unit

☐ Condensation water from heat pump

What model do you want to use for this calculation?

☐ H300

☒ H600

Back to Welcome page

What output water would you like to take into account?

☐ Toilet

☐ Washing machine

☐ Garden irrigation

☐ Swimming pool

Variables

Values (per day)

Water input from shower: 0

Water input from bath: 0

Water input from handbasins: 0

Water input from tumble dryer: 0

Water input from air conditioning unit: 0

Water input from heat pump: 0

Total input water: 0

Recycled water needed for toilet: 0

Recycled water needed for washing machine: 0

Recycled water needed for garden: 0

Recycled water needed for pool: 0

Total output water: 0

The total amount of water available for reuse is: 0

Amount of H600 units needed: 0

Maximum weight of installation (in kg): 0

Minimum floor space needed for installation (in m3): 0

Energy usage per day (in kWh): 0

Variables

ROI numbers

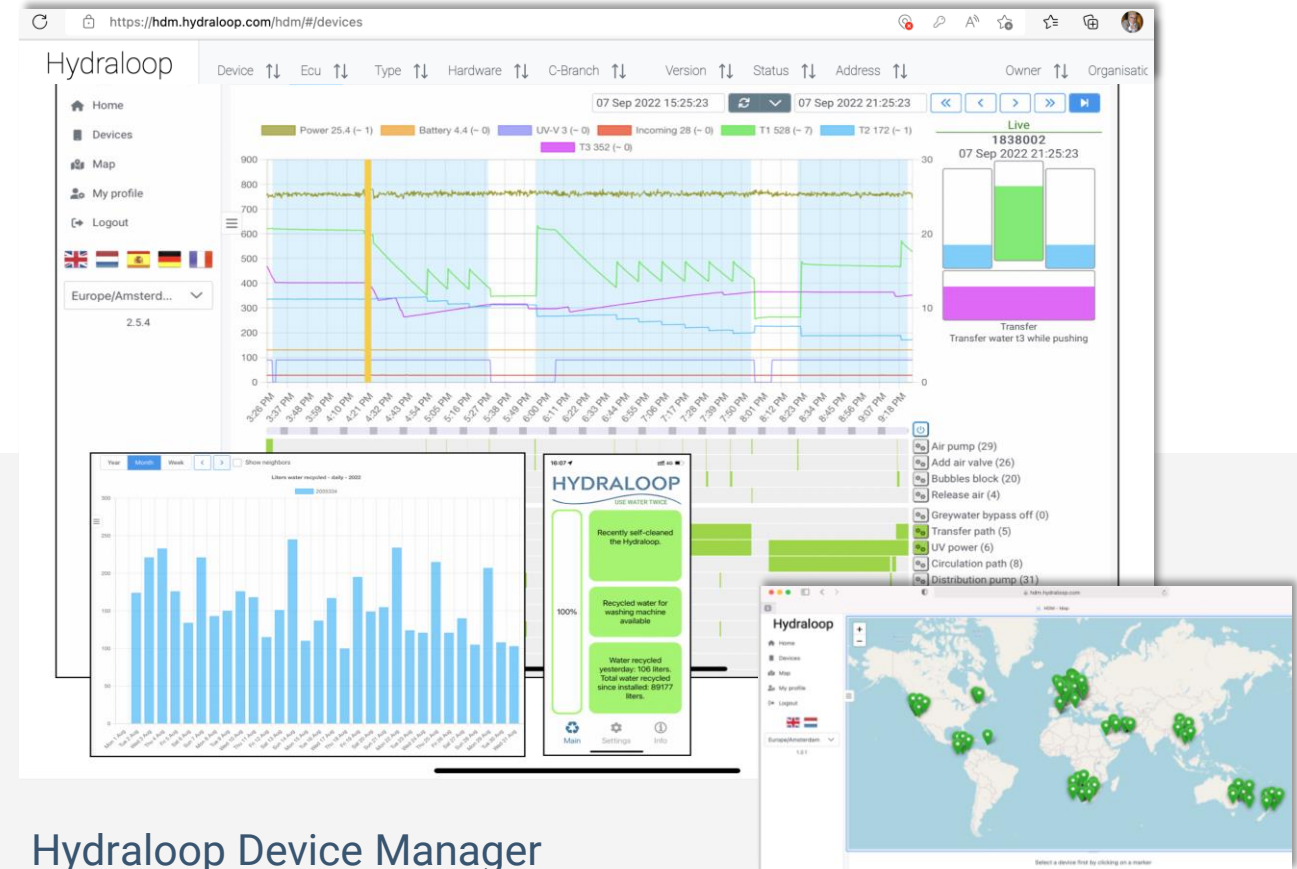
Potential water saving in m3 per year: 0

Money saving per year in EUR: € 0

Pay back time in years: NaN

Hydraloop Calculator

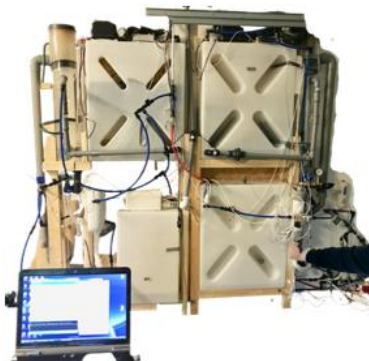
Software enables made-to-measure projections based on individual needs and specific metrics (input, output, local water prices, etc).



Company development



Hydraloop
production facility
The Netherlands



SEE US ON
CBS

SEE US ON
NETFLIX



WIPO
GLOBAL
AWARDS
2022
Winner

Hydraloop International HQ
The Netherlands



Hydraloop Middle East
Dubai



Hydraloop Inc.
United States



2015

- Acquisition of patent and IP, including many years of experience of what (not) to do

2017

- Launch of H300 at Aquatech after two years of engineering, testing, and design
- New system patent filed

2020

- Best-of-the-Best, Best of Innovation, Best Sustainable Product, Best Start-up at CES2020
- > 60 installations in Europe, Africa and Asia

2021

- First production facility
- € 4 million funding
- Production scale up in NL

2022

- 120 partners
- Start US and MENA ops
- New scalable SAAS platform
- First shipments to US & AU
- First Cascade installations
- € 4,4 million funding




PRESENT

- 140+ partners
- Release of H300 2.0 and H600
- Hydraloop Concealed prototype
- €5,5 million (May) and € 5,5 million (August) funding
- New patents granted



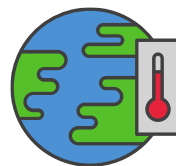
Competitive position

Hydraloop vs. alternative solutions for water supply and water savings

SUSTAINABLE DEVELOPMENT GOALS		Hydraloop	Do nothing	Rainwater harvesting	Desalination	Blackwater recycling	Direct competition
 6	Clean water	✓	✗	✓	✓	✓	✓
 11	Sustainable cities and communities	✓	✗	±	±	✓	✓
 12	Responsible consumption and production	✓	✗	±	✗	✗	✓
 13	Climate action	✓	✗	±	✗	✗	✓
	Low Maintenance	✓	n/a	±	✗	✗	✗
	Small footprint	✓	n/a	✗	✗	✗	✗
	Home application design	✓	n/a	✗	n/a	n/a	✗
	Return on Investment	±	n/a	±	✗	±	±

It always makes sense to use water twice!

Hydraloop can be used in combination with other technologies



The benefits of water recycling

Comparing Hydraloop with alternative solutions

- 1 Water savings**
Hydraloop saves 25-45% on tap water and wastewater
- 2 Energy savings**
Minimum of 400 kWh per device per year
- 3 Climate independency**
Water savings are independent of rainfall
- 4 Increasing value of real estate**
Buildings with double piping and water reuse are future-proof
- 5 Unburdening existing infrastructure**
Water utilities can serve more customers with existing infrastructure, so less need for investments for expansion
- 6 Requiring less investments in new infrastructure**
New precincts need smaller infrastructures for water and wastewater
- 7 Lowering environmental impact**
Environmental impact of reuse water is lower than tap water

Saving energy with Hydraloop



No import of cold water
for toilet flushing



Less electricity usage for
laundry



Shower water gives off
residual heat



Value proposition and business model

A perfect storm driving demand

Ongoing urbanization and housing shortage are challenging more and more regions around the world, many of them already at their limits of water supply. We see initial cases where building permits are subject to implementing to water efficiency solutions like Hydraloop.

Building Water Recycle Ready by design

Water reuse requires a slightly different piping network than currently used in conventional buildings. When implemented by design, extra costs are negligible.

Retrofit market will follow

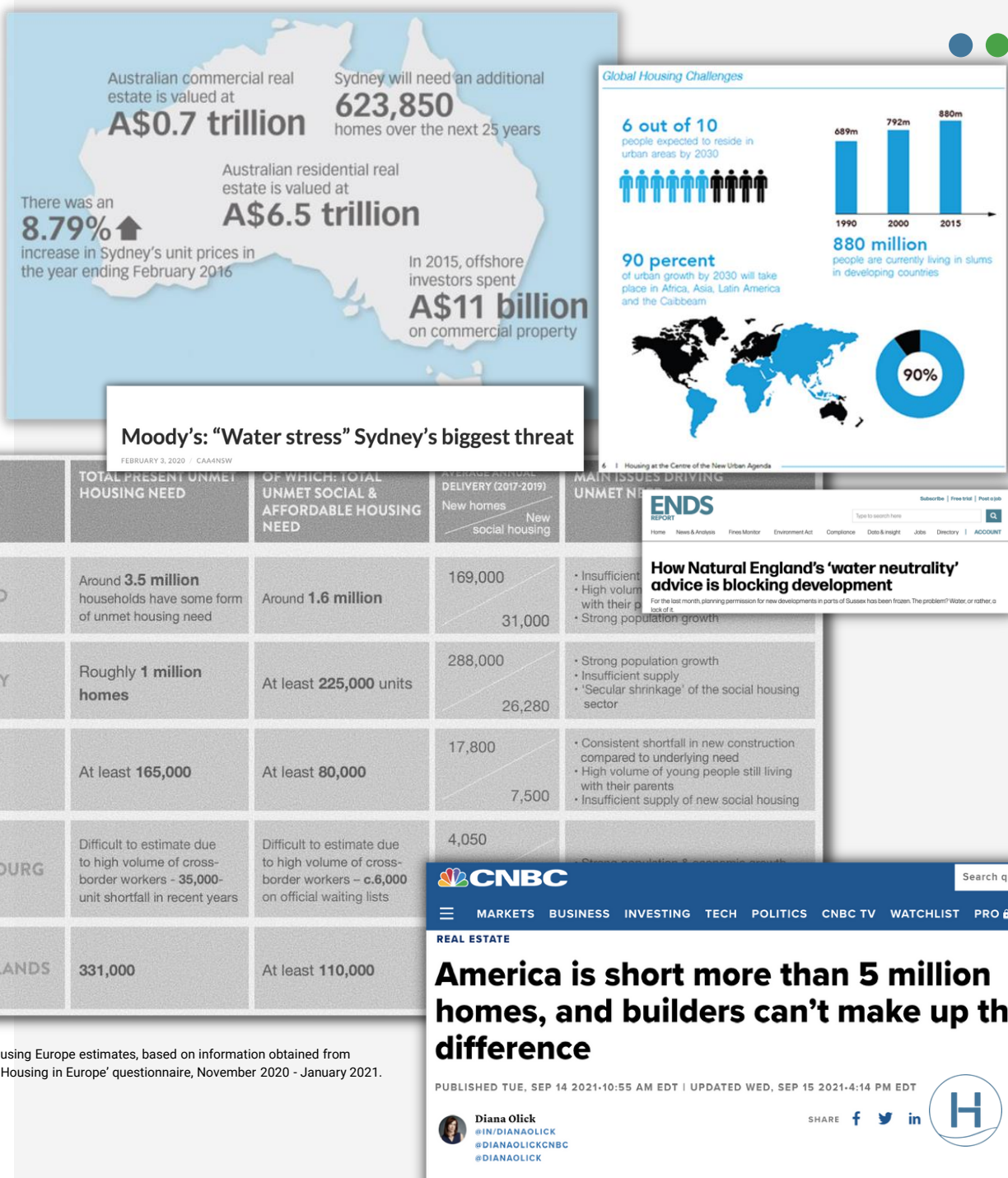
It is only a matter of time until existing buildings need structural retrofitting to become sustainable for future generations.

Compelling Case for Water Neutrality

Most of the government's targeted 300,000 homes will be constructed in the South and East of England. These areas have high populations and greatest economic activities. Significant developments are also earmarked for these regions; the Oxford - Cambridge ARC with an enormous target of 1 million homes, the 10,000 homes Tewkesbury Garden City, North Essex Garden city; but the list goes on with many less prominent developments that are required to meet demand.

Natural England and the Environment Agency have indeed taken a precautionary approach in considering the potential adverse impact on the Arun Valley ecosystems and protected habitats. But applying the "Precautionary Principle" is a tenet of the Environmental Law and so it must be as we cannot afford to lose habitats, flora and fauna first then act after the event. There is a strong case for taking this stance as technology is readily available at reasonable cost for new developments to actively offset their "new" water demand requirements.

SOURCE: Water Offsets UK



Internationalization, scalability and growth

Think global, act local

Hydraloop delivers a global product. Decentralized production lines will empower scalability, reduce transport costs, minimize carbon footprint, and increase local commitment, acceptance and employability.

Today, we collaborate with 140+ local sales, distribution, and service partners, in a rapidly extending network. Our partners have access to Hydraloop's sophisticated digital partner relationship platform. Every partner scales our reach and secures local support and services.

'Powered by Hydraloop'

Multiple well-established national and international brands have requested to provide Hydraloop technology under their own brand name. A known brand with a new product will move faster than a new brand with a new product. We expect to set up a few of these deals in the forthcoming year.

'Hydraloop Inside'

Leading global white good brands, who know all about low-cost, high-quality production and distribution, are exploring if Hydraloop can be added to their portfolio. We will advance discussions about IP license deals while retaining control with Hydraloop's proprietary software on each unit.



Click image for overview 140+ partners worldwide



Hydraloop in motion

A few examples



Brave Blue World
[Netflix Documentary](#)



Innovation Nation
[CBS, United States](#)



7 News
[7 Network, Australia](#)



Energy Observer
[United Nations](#)



WIPO Global Award Ceremony
[United Nations](#)



The 8 O'clock news
[NPO1, The Netherlands](#)



EcoIndia
[Deutsche Welle](#)



Founded in Friesland
[NPO1, The Netherlands](#)



Addressing World Leaders
[Hydraloop at COP26](#)



Expresso
[SABC, South Africa](#)

Find more videos on the [Hydraloop YouTube Channel](#)



Awards and Recognition



2023 CES Awards

Innovation Award
category Smart Home



2022 EU PropTech Awards

Sponsored by the European Commission
Third place



2022 (WIPO) World Intellectual Property Organization Global Award

United Nations Award for patented technology
with social impact



2020 CES Awards

Best Startup, Best of Innovation,
Best Sustainable Product,
Best of the Best

