



ENGINEERING BIO SUSTAINABLE SOLUTIONS

Nature-Based Solutions Contributing to Climate and Environmental Recovery



Finalist in the Water category COP28



Nature-based technology for sustainable development

6 CLEAN WATER AND SANITATION



ROOTZONE TECHNOLOGY - ACTIVE BIOFILTER Sludge, Wastewater and Waste management

About us

Transform af 1994 ApS & BACCESS A/S is some of the most experienced environmental engineering companies worldwide regarding municipal and industrial waste, wastewater and sludge treatment technology. With more than 30 years' of experience in the field of waste management, Transform & BACCESS has developed and implemented over 1000 Nature-based waste, wastewater and sludge management projects worldwide.

Transform af 1994 ApS 's Rootzone technology is nature-based and has the following environment, economic and social benefits:

- . Low cost, highly efficient and sustainable
- . Recycles up to 80% of wastewater
- . EU verified for oil treatment and recirculation
- . Meets the Government and WHO demand
- . Treats sewage, wastewater, sludge, mud, and oil
- . Reduces sludge with 95% by mineralization
- . Consumes low energy and no chemicals
- . Has a positive carbon credit without emission of carbondioxide
- . Greens and cools the desert to under 30° C
- . Applicable for recirculation of carwash and irrigation for agriculture
- . Raises your environmental profile

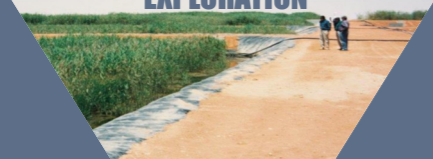
**SLUDGE
MINERALIZATION
BY 95%**



**TREATMENT OF
WASTE WATER
FROM MINING
ACTIVITIES**



**TREATMENT OF WASTE
WATER PRODUCED
DURING OIL
EXPLORATION**



**CAR WASH WATER
RECIRCULATION
UP TO 80%**



www.rootzone.dk



2 ZERO HUNGER



Waste2Value - Organic Fertilizer Production Unit

EU verified Technology for health-safe recirculation of carbon and nutrients contained in organic waste fractions



- ✓ Waste is transferred to high quality organic fertilizers in 3-7 days - Natural NPK Boosted
- ✓ Increased agricultural yields contribute to regenerative agriculture and to sustainable food production
- ✓ The organic fertilizers produced can suppress the incidence of pests and plant diseases
- ✓ Upcycling the residue by adding natural nutrient boosters – keep it in the loop – highest farmer value
- ✓ Improves soil health by carbon recirculation and thus increased biodiversity and water retention
- ✓ Enhances the availability of plant nutrients optake and high soil fertility over a long period of time
- ✓ Waste management solution for Climate Mitigation and Adaptation
- ✓ Increases agriculture yields thus addressing the challenge of food insecurity
- ✓ Reduce Carbon Footprint - Carbon Capture - ESG - CSR - SDG

Schools and communities

Waste Awareness Sorting Training Education program for schools

4 QUALITY EDUCATION



Bio engineers: Design Supervision Construction Operation



INDOOR AND OUTDOOR AIR TREATMENT SOLUTION

BIO VENTIC - INDOOR AIR COOLING

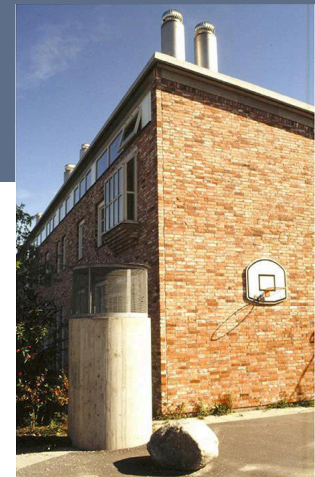
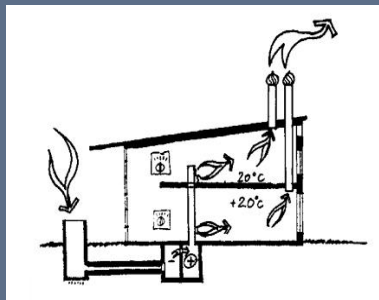
3 GOOD HEALTH
AND WELL-BEING



- . NASA developed air treatment
- . Transfer contaminated air to clean air
- . Reduce dust
- . Reduce germs and bacteria
- . Reduce smell
- . Tested for treating 500 chemicals
- . Cooling air
- . Stabilize indoor climate
- . Raise comfort and health with 50%
- . No noise
- . Standard pot or custom made

NATURAL COOLING AND VENTILATION

- . Pleasant ventilation
- . Fresh air
- . Natural ventilation by atmospheric pressure – no energy needed Air intake through geo-cooling construction – natural cooling/heating exchange
- . Air outtake supplied with solar/wind chimney
- . Controlled to accepted indoor temperature



Contact Denmark / Worldwide:

BACESS A/S & Transform af 1994 ApS
Danish Rootzone Technology
Jaegersborgvej 1, 9520 Skorping, Denmark
Tel: +45 42 95 12 11
Email: info@rootzone.dk
Web: rootzone.dk / baccess.dk

