

ECUADOR



ECUADOR, Galapagos Island, Island Isabela

SUSTAINABLE POTABLE WATER SUPPLY AND PET-RECYCLING

PEOPLE on Isla Isabela



There are about 2,200 inhabitants on Isla Isabela.

There are about 10% tourists on Isla Isabela each day

Together approx. 2,500 people living on the island

POTABLE WATER CONSUMPTION on Isla Isabela



Each person needs approx. 3 liter potable water per day for

- trinking
- cooking
- personal hygiene

For 2,500 people, there is a need of 7,500 liter potable water per day on the island

POTABLE WATER CONSUMPTION on Isla Isabela



7,500 liter per day

52,500 liter per week

225,000 liter per month

2,700,000 liter per year

POTABLE WATER COST on Isla Isabela



The cost of potable water includes

- water bottling
- logistics
- transports
- trading
- disposal of empty container, bottles, etc.

for this you pay approx.
1 U\$ per liter

POTABLE WATER COST on Isla Isabela



people of Isabela spend for potable water :

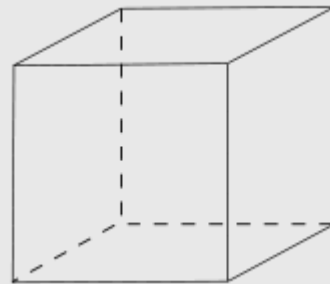
7,500 U\$ per day

52,500 U\$ per week

225,000 U\$ per month

2,700,000 U\$ per year

POTABLE WATER VOLUME OF BOTTLES on Isla Isabela



8 x 8 x 8 meters

20% volume

is equivalent to

540 cubic meters PET-
plastic disposal per year

is equivalent to

a cube of 8 x 8 x 8 meter

POTABLE WATER VOLUME OF BOTTLES on Isla Isabela



100%



20%

While the filled bottles have a volume of

100%

The plastic disposal still have a volume of approx.

20%

Equivalent to

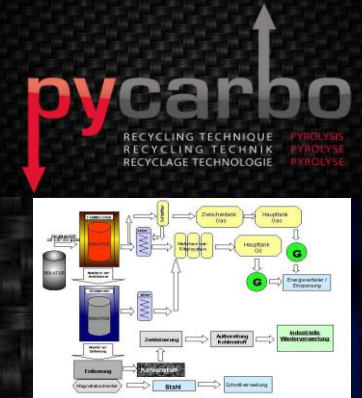
540 cubic meters
PET- plastic disposal

POTABLE WATER CONSUMPTION on Isla Isabela

In combination with PET- recycling Plant "save nature and produce energy"



We solve the problem sustainably!



- Transformation of waste to usefull resources
- Transformation and use of energy produced in the process
- Pathbreaking for the containment and the removal of further environmental damages



THE SOLUTION on Isla Isabela



water treatment systems for drinking water

- mobile version
- stationary version

by using

- saltwater and/or
- impure water

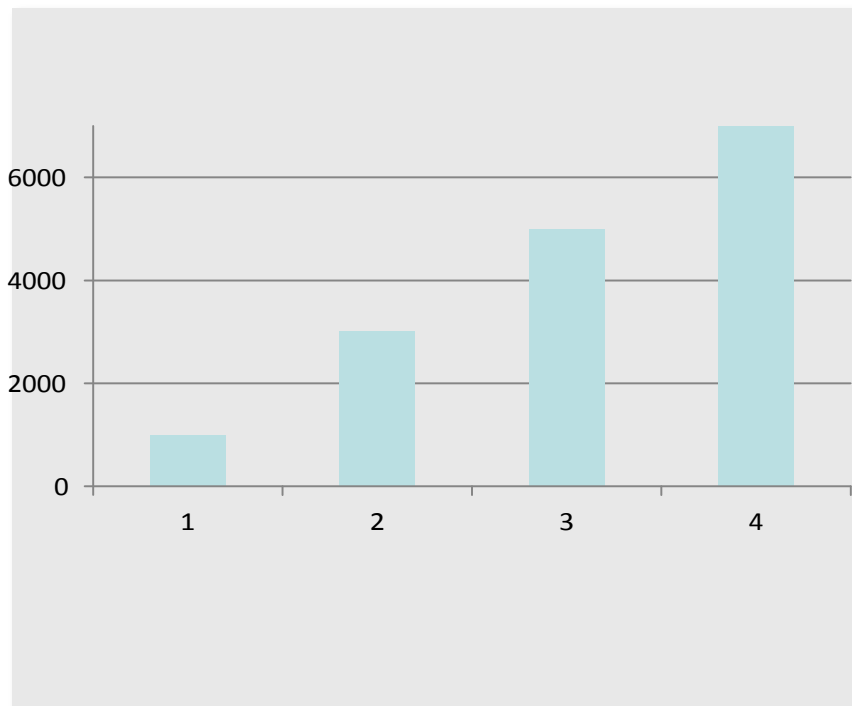
THE SOLUTION on Isla Isabela



coverd in individual designed, nature adapted but simple bulidings for

- community
- hotels
- hospital
- compounds
- etc.

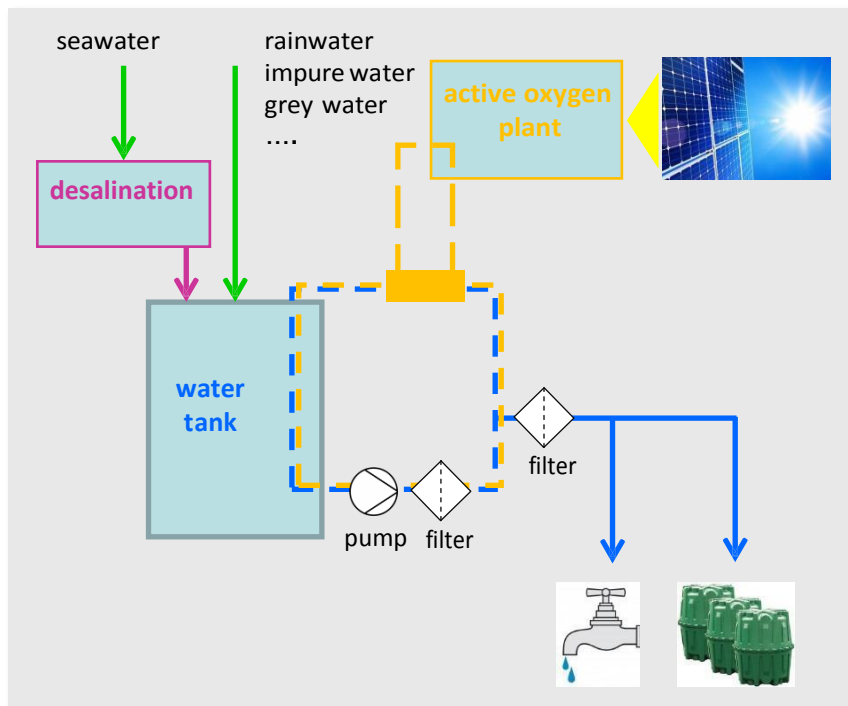
THE SOLUTION on Isla Isabela



in sizes of

- 1,000 liter per hour (mobile) – S
- 3,000 liter per hour (mobile) – M
- 5,000 liter per hour (mobile) – L
- 7,000 liter per hour (mobile) – XL

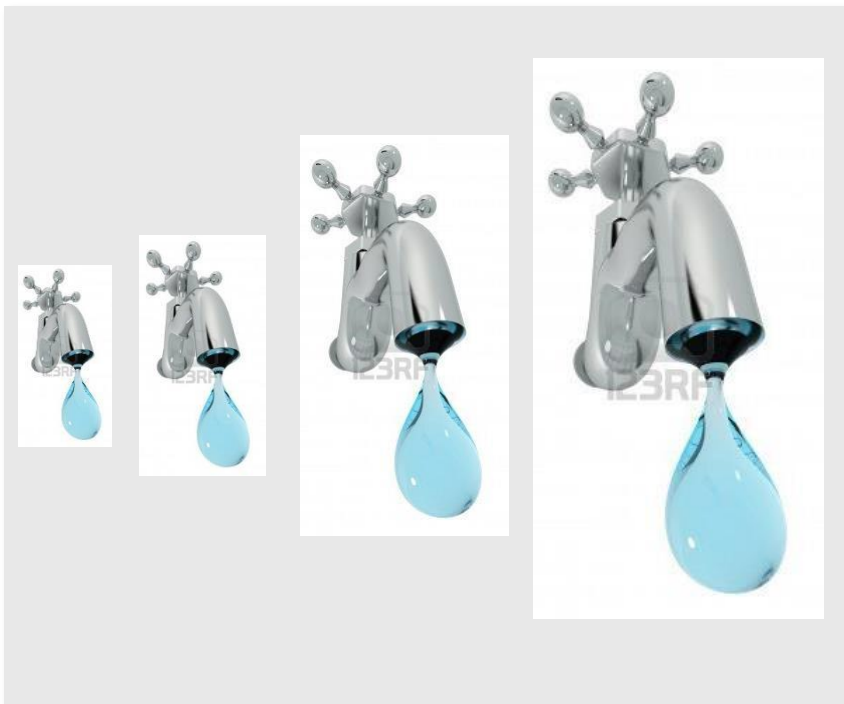
THE SYSTEM on Isla Isabela



function and technology

- water treatment systems for potable and waste water with OZONE, the most potent natural disinfectant
- off-grid operation by solar system
- no use of chemicals hazardous to the environment
- easiest operation of the plants or systems
- very low operation costs
- Patented automatic system for ozone control and checking
- Continuous measurement of the Redox potential

THE OUTPUT on Isla Isabela



running the system by solar – without energy costs, you will get potable water for free:

- 8,000 liter per day (small plant)
- 24,000 liter per day (medium plant)
- 40,000 liter per day (large plant)
- 56,000 liter per day (extra large plant)

based on 8 sunhours per day, 8 hours operation

BACKWARD CALCULATION on Isla Isabela



running the XL-plant only by solar power, the output will be approx. 56,000 liter.

That means there will be

22.5 liter potable water
per person and day

- for showering
- toilet flushing
- gardening
- etc.

based on 8 sunhours per day, 8 hours operation

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SUMMARY

"We forget that the water
cycle and the life cycle
are one."

Jacques Cousteau

*** Interested ?**

we create a detailed feasibility study and business plan

CONTACT

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