



Multi Purpose Industries

Water-project

Kenya

To Make the Planet Greener

Introduce Multi Purpose Industries



Contents

- Multi Purpose Industries
- Vision
- Objectives for 2008
- Innovative approach to clean water production
- The MPI solution
- Advantages of MPI's concept

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Multi Purpose Industries - MPI

MPI is a consortium of businesses working with the Technical Universities of Enschede and Eindhoven, Wageningen University and Research Centre and the Saxion Polytechnic University of Enschede.

Our affiliated scientists include Prof. C. Daey Ouwens (TU Eindhoven), Dr. W. Gilijamse (Saxion University), Prof. J. Sanders (WUR).

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MPI's Vision

Innovative treatment of any polluted surface water in combination with wind and solar energy

Portable systems that can provide in the need of clean potable water independent to the contagion of the source

100 systems can provide 800.000 people 7 years for potable water.

Bring the Water Plant to the people. Don't travel with expensive bottles or cans all over the country.

No need for expensive waterworks or infrastructure to bring the water to villages in the country.

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Objectives 2008

- (I) Launch a pilot-project to prove that a possible solution for potable water in developing countries is decentralization.
- (II) Prove that it is economically manageable to run a local Water Plant
- (III) Prove that a project of 100 systems also can solve the problem of maintaining the systems, and implement water equipment.

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Innovative approach to potable water production

- 1- Economically sound approach.
 - A return on Investment in 3 years (price p/ltr € 0,002)
 - Cheaper than water from the bottle or big Water Plant
 - No pipework needed
- 2- Decentralization of Water supply.
- 3- In combination with solar and wind energy, the system is usable almost everywhere. You only need surface water or a spring.
- 4- The approach focuses on the full self supporting of the community who manage the system.

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Innovative approach to potable water production

- 5- Health approach. Every Hospital and slum can provide in its own need for potable water, which results in less diseases.
- 6- Starting with a project of 100 systems, it is profitable to train people for maintaining the equipment. Also a company with spare parts and new systems can be founded. The continuity is therefore guaranteed.
- 7- Capacity of 40.000 liter a day. With 5 liter per day a head the systems provide 8.000 people for potable water.
- 8- Possible delivery of potable water in the surroundings. New projects will be started, also in the neighbor countries. New business opportunities are created.

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The MPI-solution

Various technologies* are used on this project, depending on the location and other factors as power supply.

The combination of the different power supply's, makes the unit suitable for a wide range of applications.

The innovative MPI-solution in this 100-unit project will guarantee the training of personnel, the maintenance of the units, the logistical re-supply and the possibility of starting new business activities for local people.

* Technologies: Membrane technology, UV an UF disinfection treatment, solar panels, windmills.

** The systems are tested during more then 5 years under different circumstances..

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Advantages MPI-solution

- Providing about 800.000 people for potable water
- Decentralisation.
 - No pipe work needed.
 - No trucks needed
 - Less bottles to fill, less plastic in the environment.
 - No big problems if one unit fails
- Less disease, less people will die
- Spin-off for additional activities
- Project can be use as argument in the elections
- Export-possibilities in neighbour countries

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Funding proposal

- Dutch companies involved	€ 500.000,-
- Dutch government	€ 250.000,-
- Kenya government	€ 500.000,-
- Investors	€ 500.000,-
- International help-organizations	€ 1.500.000,-

Total project amount	<u>€ 3.250.000,-</u>

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Promotion



- The Lornah Kiplagat Foundation supports this project.
- Stakeholders Kenya ??????
- Government Kenya ??????
- Stakeholders Netherlands (MPI will take care)
- Together with stakeholders from Kenya en the Netherland we can make a statement to the rest of the World.

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