THE OMNI PROCESSOR, AN INNOVATIVE MACHINE THAT TURNS FECAL SLUDGE INTO POWER

In 2015, ONAS acquired the very first Omni Processor prototype through a donation from the Bill & Melinda Gates Foundation.

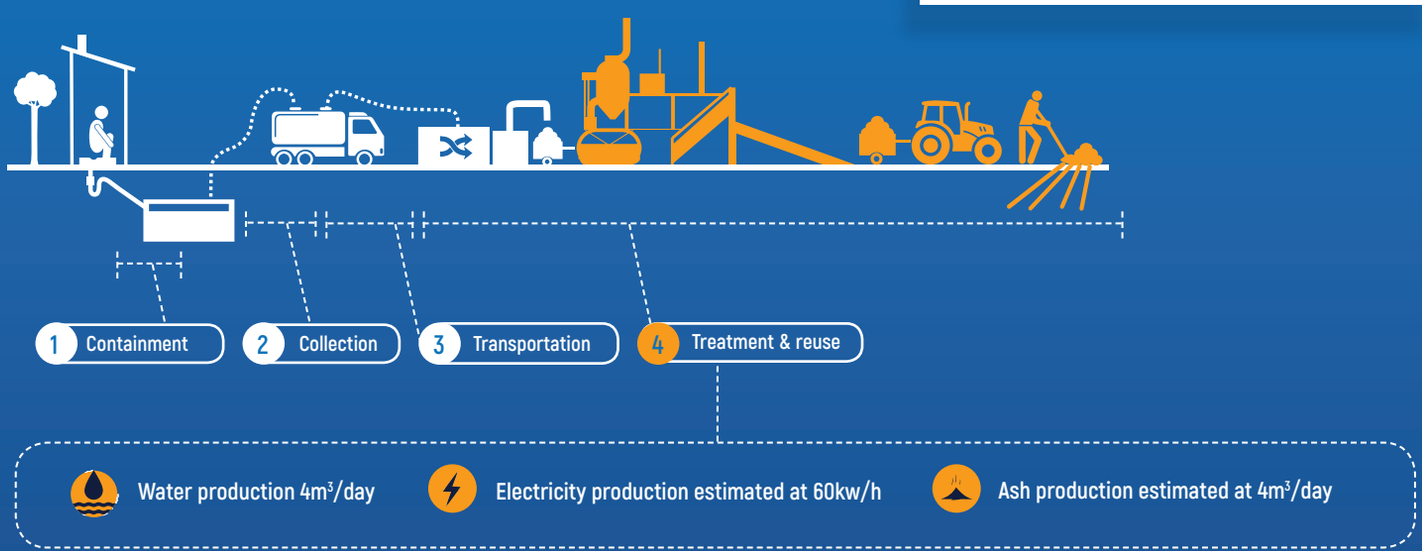
The Omni Processor (OP) is a unique, innovative machine whose purpose is to reuse fecal sludge. Operating on the principle of combustion, the OP uses dried fecal sludge to produce electricity, ash that can be used in farming or manufacturing of bricks or cinder blocks, as well as water that can be used for various industrial purposes.

A real technological breakthrough, this machine could prove extremely useful in African countries such as Senegal, where on-site sanitation predominates, and sewers are very limited. The Omni Processor makes it possible to eliminate contaminated, polluting fecal matter, which causes serious health problems, turning it into safe and marketable products that can contribute to the country's economic development.

Although it is still in the experimental stage, the initial results observed in civil engineering and agriculture are promising and encouraging. The progress achieved by the Omni Processor demonstrates that this unique device can make a significant contribution to protecting the environment of the population within a few years.

Highlights

- **Over 450 m³** of sludge treated per day.
- **Diversification** of by-products of sanitation.
- **Significant reduction** in fecal sludge treatment time.
- **Significant reduction** in odor nuisance.
- **Potential for partnerships** in the management of solid wastes and liquid effluents.



The Senegal National Sanitation Office (ONAS) is the utility in charge of sanitation in Senegal. It initiated the National Program of On-site Sanitation Sustainable Development (PNDDAA) and acts as contracting authority for the program.

The PNDDAA contributes to sustainable development by providing technical and managerial solutions to non-sewered sanitation issues.

ONAS

Non-Sewered Sanitation