USE CASE

WASTE-TO-ENERGY-TO-WATER
The WOIMA® waste-to-energy power plant, as well as the water treatment facility, design is based on standard 20’ and 40’ container-sized modules, which simultaneously act as
• easily transportable units
• secure enclosures
• installation platform for technical solutions
• protective housing on-site

There is no buildings in the design causing additional costs or slowing down the erection process. The modules are simply bolted together to form the operational waste-to-energy-to-water, or waterWOIMA plant. All the modules have been designed with efficient and fast transportation, erection, dismantling and relocation in mind.

The waterWOIMA plant project can be planned as a temporary solution. Once more permanent solutions are in place, such as 3R and a municipal water treatment plant, the waterWOIMA facility can be dismantled and relocated. Relocation protects some 90% of the original investment; only the concrete foundations are left behind.
One WOIMA line uses some 30,000 to 50,000 tons of waste fuel per annum. Different waste streams, including MSW, RDF, agrowaste, industrial waste, landfill-mined waste and similar can be mixed. This translates to over 500m³/h in potable water production, i.e. ~100m³ per ton of waste.

Up to four WOIMA lines and water treatment modules can be interconnected to form a larger WOIMA plant. The plant is easily delivered, quick to install, cost-efficient to run and simple to maintain offering all stakeholders significant benefits. Relocation to a close-by site can be done within four-to-six months.

**BENEFITS:**

**WASTE MANAGEMENT**
- Creating new business potential
- Simplifying waste logistics
- Reducing environmental impacts
- Matching future regulations
- Postponing landfill investments
- Green image benefits

**POWER & UTILITY**
- Decentralizing power generation
- Enabling off-grid solutions
- Offering fuel & production flexibility
- Harnessing endless fuel source
- Utilizing carbon credit schemes
- Fast plant delivery

**INVESTORS**
- Excellent return on investment (ROI)
- Scalable business model
- Diversified investment portfolio
- Vendor arranged funding
- Fast project roll-out
- Plant relocation option

**OTHER STAKEHOLDERS**
- Turning waste into local welfare
- Health & environmental benefits
- Local reliable energy supply
- Educational & job opportunities
- Improving living conditions
- Implementing development funding
CONTACT INFORMATION

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