



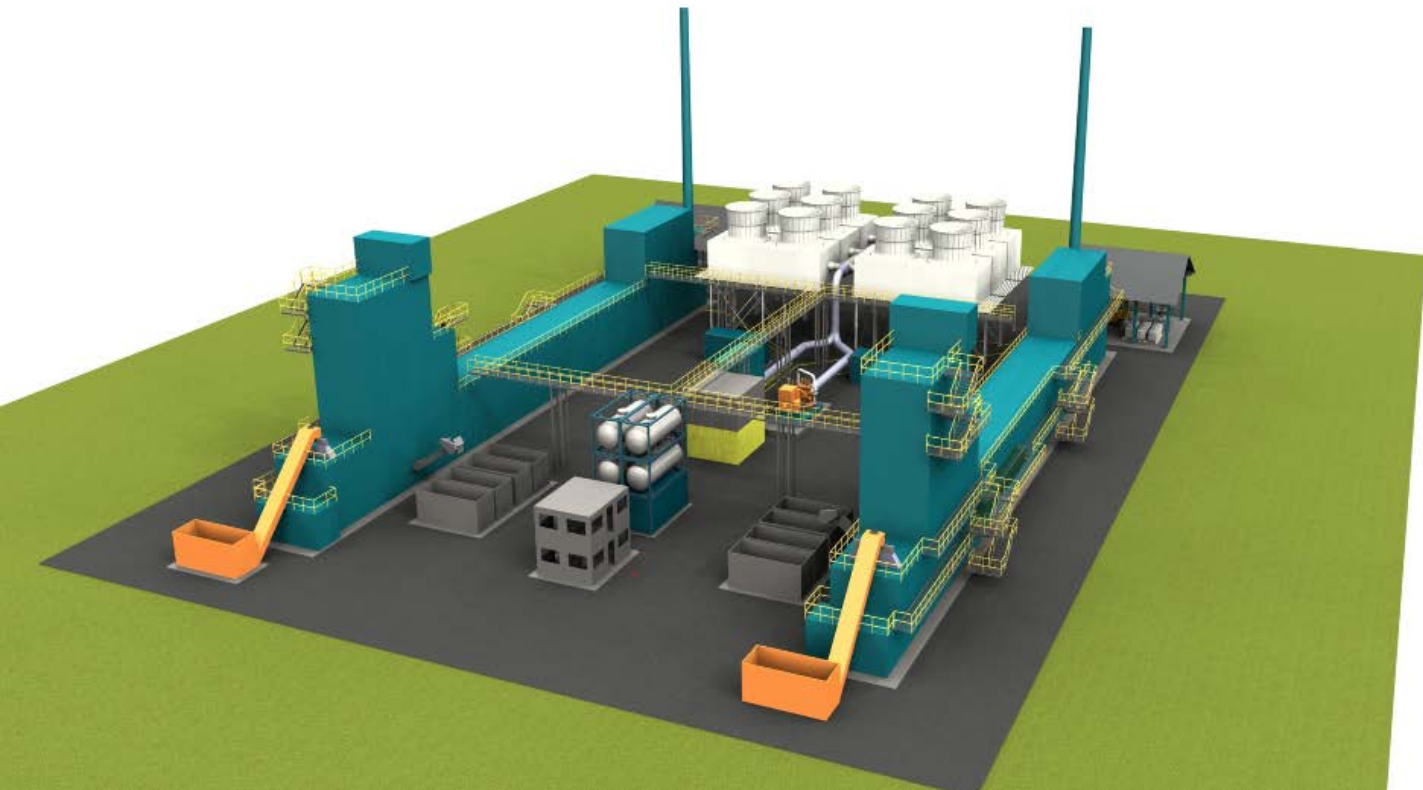
W O I M A

CORPORATION

## USE CASE



RELOCATING THE  
POWER PLANT  
WITH EASE



## RELOCATING THE POWER PLANT WITH EASE

The modular *wasteWOIMA*<sup>®</sup> plant will revolutionize the way power plants are designed and built. The container-sized modules are prefabricated to include the technical equipment making up the power plant. These are simply interconnected on site to form an operational plant. Worn out modules can be replaced to prolong the power plant life span and when needs or regulations change, the plant can be dismantled into modules and erected elsewhere.

Traditionally power plants have been designed and built as fit-to-purpose one-off facilities that will serve their designed purpose on one spot independent of changes in the operational environment. This is especially challenging in the waste-to-energy genre, since it has a number of variables such as

- population growth
- economic growth
- urbanization
- recycling activities
- environmental regulations

affecting the quality and quantity of the fuel (waste) as well as the operational parameters.

Traditional power plants have fixed structures and capacity, making it next to impossible to adapt to these changes. The *wasteWOIMA*<sup>®</sup> power plant, on the other hand, relies on a powerline structure enabling easy and fast expansion based on current needs. Downward capacity changes are possible by running less powerlines and more capacity can be constructed within 12 months.

The *wasteWOIMA*<sup>®</sup> power plant 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 power plant building causing additional costs or slowing down the erection process. The modules are simply bolted together to form the operational power plant. All the modules have been designed with efficient and fast transportation, erection, dismantling and relocation in mind.

The power plant relocation option is an excellent guarantee to the investors. If the operating environment becomes unfavorable, relocating the plant protects some 90% of the investment. Only the concrete foundations are left behind. This also creates new business models, like leasing the plant for temporary use. With a traditional power plant, the salvage value of the equipment is 30% at most.

The modular *wasteWOIMA*® power plant uses non-toxic municipal, institutional, commercial and/or industrial waste to produce super-heated steam, electricity, thermal energy and/or potable water. The required waste quantity is roughly 170 tons per day, which translates to 3.4 MW<sub>e</sub> of electrical power or 2.0 MW<sub>e</sub> / 10 MW<sub>th</sub> in co-generation.

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 months.

## BENEFITS:

### WASTE MANAGEMENT

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

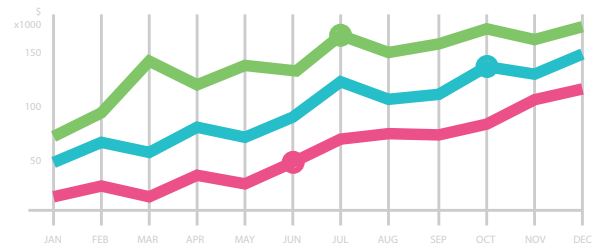


### POWER & UTILITY

- 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



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#### YOUR LOCAL CONNECTION

