USE CASE

ORGANIC WASTE POWER GENERATION SOLUTION
The wasteWOIMA® modular waste-to-energy power plant has the right characteristics to utilize all types of organic waste fractions for power generation. It can produce the required thermal and electrical power to run the production facilities utilizing the freely available production by-products. At the same time, the power plant helps save the environment from the ill effects of the soluble effluents in the waste.

The power that is not used in the oil production can be sold to the grid, used in the waste water facility to treat the sewage and sludge generated in the production, or to produce potable water for local population. Process steam can also be offered to other nearby manufacturing facilities.

Both, the residual biomass from tree culture and the oil extraction residue have excellent heating values between 18 and 20 MJ/kg. The wasteWOIMA® power plant can be a combination of all kinds of waste fractions, including municipal, industrial, commercial and institutional waste. Thus, the plant can serve both industries and municipalities alike.
The modular wasteWOIMA® power plant uses organic waste fractions, such as olive mill waste (OMW), empty fruit bunches (EFB), palm oil mill effluent (POME) and palm kernel shell (PKS) to generate super-heated steam, electricity, thermal energy and/or potable water. The required organic waste quantity is roughly 100 tons per day, which translates to 3.7 MWₑ of electrical power or 2.4 MWe / 10 MWₜₜ in co-generation. The plant is easily delivered, quick to install, cost-efficient to run and simple to maintain offering all stakeholders significant benefits.

**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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