

Integrated Dry Anaerobic Digestion and Composting

Every city and town is different. And each one has its own challenges when it comes to waste management. Now there's a new, affordable option that beats every challenge you can throw at it: the Aikan® system.

When local governments add Aikan® to their waste management solutions, they transform mere garbage into valuable, community-friendly, beneficial resources.

The Short Story

The Aikan® Technology is:

- Proven, field tested (full-scale plants operating for years), easy technology for processing thousands of tonnes of organic waste.
- Significantly reduces amount of waste entering municipal and private landfills.
- Creates potentially profitable, marketable outputs that enhance public budgets – nutrient-rich compost and high-quality biogas (methane).
- All facilities backed by a company with established expertise in waste management, renewable energy sources and soil/compost production issues.

Surprising Pluses

- Limited sorting of waste prior to processing.
- Handles a wide range of organic wastes from varied sources, processing them into biogas and/or compost, including: Household waste, food and grease trap waste from restaurants and agricultural and yard waste.
- Processing more types of waste means opportunities to bring new users to the landfill – increasing the amount of gate and tipping fees paid.
- Aikan® plants' cost of processing per tonne is less than incineration – and unlike incineration, produces no hazardous slag requiring special handling or disposal.
- Aikan® plants integrate easily with existing landfill and biogas reclamation operations, and their size can be adapted continuously according to needs (new modules are added only when demand and capacity increase).

The Ultimate Value

- Easy technology = greater reliability, lower operating costs, 100% up time.
- Scalable technology – capacity built to match your needs.
- Reduced labour and operating costs.
- New revenue streams through sales of byproducts.
- Extended landfill life.
- Improved image as a cleaner, “greener” community
- New source of fuel for power generators.



If you process 25,000 tonnes of organic waste in a year in an Aikan® facility you can generate enough electricity for 1,500 families and provide heat equivalent to burning 1.5 million litres of oil.

A New Perspective - Explore the Aikan® Technology...

Robust. Reliable. Flexible

That's the philosophy of the Aikan® technology, and it will change how you think about the waste in your municipality.

Any government can now transform citizens' organic waste from an expense into potential revenue. By taking a process that occurs in nature and accelerating it - without using complex technology - Aikan® unlocks options you may never have considered before.

Operating public facilities is an essential government function but can also be among your most difficult management and technological challenges. Make the choice that is safe, secure, proven and smart - add the Aikan® system to your landfill and see a future with new possibilities.

The Aikan® system's sensible simplicity is the key to treating all types of organic waste naturally and almost technology-free. The system has 100% uptime and lower costs of operation.

It employs a process that Mother Nature uses every moment of every day, just a bit faster, rather than burning or burying organic waste.

For Aikan® one tonne of average organic waste = 80 m³ biogas (+70% methane), and 350 kilo of organic fertilizer.



Your community ends up with:

- Clean, dry, nutrient-rich fertilizer for use in public gardens, parks and athletic fields, which cuts your purchasing costs or gives you fertilizer to sell publicly.
- A nearly limitless supply of energy-rich methane to generate power as part of the local electrical grid.
- Extra years added to the life of your landfill.
- Better community relations thanks to low odour waste processing.
- Fewer greenhouse gasses because all processing is done indoors, and the resulting compost acts as an immediate carbon sink to absorb excess carbon dioxide.
- No excess water runoff thanks to evaporation in the system.
- An economic boost, from the local construction crews employed to build the facility using locally sourced materials, to locally-hired operating staff.

Aikan® Technology takes an industrialised approach to waste handling. And recycling is key. Both factors will help reduce the inevitable "not in my back yard" that all politicians face from the public.

Partner With A Trusted Expert

Solum Gruppen - creators of the Aikan® system - have more than a quarter century of experience and are Denmark's largest supplier of growth media and turf care products.

The company's pioneering approach to waste processing, and its outstanding business operations, have been rewarded. In 2009, Solum Gruppen was awarded the Danish Liberal Party Climate and Environment Award which was presented by the Danish Prime Minister. The award was given for Solum Gruppen's ability to successfully combine environmentally friendly waste management with a smarter business model.

With financial strength of nearly \$4 million in venture capital funding for international expansion, Solum is bringing Aikan® to new markets.

**Ready for more innovative
municipal operations?**

**Contact Aikan A/S + 45 4399 5020
or go to www.aikan.eu
Unlock the potential**