



# Accelerating the Rate of Composting of Municipal Waste in Southern Europe

*A waste composting plant in Italy had reached its physical capacity and was in urgent need of expansion; however the funds for capital expenditure by the local authority were not available for at least twelve months.*

There was a danger of a serious waste problem, the plant had reached capacity, however the local authority was receiving increasing amounts of compostable waste. There was no further land available for waste storage and treatment. The only option available was to increase the throughput of the plant; however this had to be achieved without reducing the quality of compost produced. Waste took approximately three to four months on average to compost and it had to be fully composted to ensure to remove malodours, pathogenic bacteria and that it was no longer an attractant for vermin.



A 0.1% solution of Global Advantech GreenChem's Natural Biostimulant Composting Accelerator BR938 was sprayed over the waste upon receipt at

the composting facility and then again each time the compost was aerated by turning. This resulted in an increased rate of breakdown of the organic material by microbial activity, reducing the composting time by an average of 30%. This reduced composting time allowed the plant to accept and treat 35% more waste without additional capital expenditure for expansion.



Natural Biostimulant Composting Accelerator BR938 contains biostimulants to accelerate the natural biological processes and rapidly biodegradable sugar-derived surfactants to ensure that waste for composting is properly wetted out. (Micro-organisms require moisture to biodegrade waste.)

*Global Advantech GreenChem's biostimulation and bioremediation products contain natural molecules which are proven to catalyse certain cell defence mechanisms and accelerate specific metabolic functions within microorganisms. These enable the organisms to rapidly break down hydrocarbons and other organic molecules.*

## Global Advantech GreenChem Limited

*Exceptional clean technologies for a sustainable future.....*

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