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塑料



生活垃圾进场



RECYCLING



生物质燃料



作为燃料使用







戈尔生活垃圾处理系统

在一座好氧堆肥厂内"戈尔垃圾处理系统"是重要的工序. 根据项目的不同要求, 对物料进行无害化, 稳定化以及干化处理。

"出料"经分选后可回收再生废物原料, 制造 RDF 及部分有机肥。通过这道工序, 可使进入填埋场的垃圾降低至约30%。



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Residual waste processing using the GORE® Cover System

Within the scope of mechanical/biological waste processing, the GORE® Cover System assumes the critical step of pathogen kill, stabilisation and/or drying of the treated residual waste. Depending on the purpose or requirement, the process is controlled in the GORE® Cover System. The separation of recyclable residual materials, production of alternative fuels, stabilisation of the organic proportion for landfilling or production of "compost (CLO - Compost-like-Output)" makes up the wide variety of tasks. The residual waste portion to be disposed of is reduced to approximately 30%.

Above all, the mechanical/biological waste treatment generates better added value from the different residual waste fractions.

Opposite is a flow chart illustrating a residual waste treatment possibility.



典型的戈尔处理系统需要8周时间, 分为3个周期。堆肥原料在第一周期内停留4周, 第二周期内停留2周,第3周期同样停留2周。 主要部件戈尔膜,

由于它的特殊结构使堆肥槽内有了合适的气候:

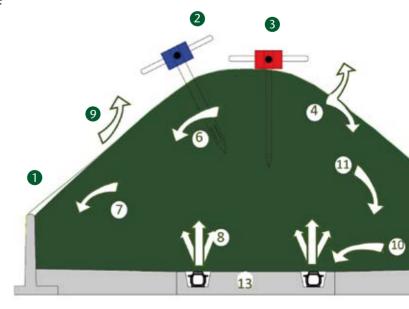
- 防水, 防风, 保护堆体所需湿度。
- 水蒸汽和空气有控制的透出, 致使堆体不会干燥
- 由于合理的供风, 堆体形成一个密闭的空气舱, 保证堆体内温度均匀分布, 达到了堆体全方位的无害化。

戈尔膜特有的分子过滤微孔结构(孔径0,2 μm, 不让细菌和臭味气溶胶通过;臭味排放大大减少, 环境质量优于封闭式厂房。

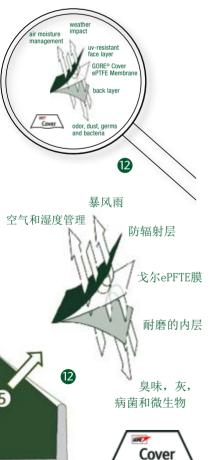
这将保证项目周边地区居民和项目运行与维修工人 的健康和安全;

- 1 槽边墙的密封
- 2氧气传感器
- 3 温度传感器
- 4 湿度
- 5 CO₂
- 6 异味排放
- 7温度
- 8 微压空气仓
- 9 暴风雨
- 10 渗滤液收集
- 11 微生物
- 12 戈尔膜
- 13 压力传感器

- 1 Contact with sidewall
- 2 Oxygen Sensor
- 3 Temperature Sensor
- 4 Moisture
- 5 CO₂
- 6 Odour
- 6 Heat
- 8 Aeration with fresh air
- 9 Weather impact
- 10 Leachate dewatering
- 11 Micro-Organismen
- 12 GORE® Cover
- 13 Pressure Sensor







The typical GORE® Cover process takes eight weeks, and comprises of three phases. The waste is held in phase I for four weeks, followed by phase II for two weeks and phase III for another two weeks.

The central component of the system is the GORE® cover laminate for the windrows. Thanks to the pore structure of the membrane, the laminate cover provides semipermeable properties which ensure a consistent climate in the windrow:

- It is water- and wind-resistant and thus protects the waste material from wind and precipitation and consequently from unwanted fouling processes due to water logging.
- Its permeability to vapour and air regulates the escape of humidity and also ensures venting of gasses from rotting and simultaneously preventing drying of the waste material.
- Thanks to the positive aeration, an air insulation layer is achieved in well sealed systems, which causes uniform temperature distribution within the entire windrow and ensures homogeneous pathogen kill of the waste material.

At the same time, the cover acts as a barrier against odours and other gaseous substances escaping from the waste material. During the rotting period, a fine condensate film forms at the inside of the cover. In this film odours and other gaseous substances are dissolved and then drip back into the waste material where they are further decomposed by bacteria. With a pore size of approx. 0.2 µm it also acts as an efficient barrier against fungal spores and germs.



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有问题? 找我们!

联系方式...

邮箱: china@kompostanlagen.de











The compostable plastic materialecovio® made by BASF is biodegradable and decomposes completely in all conventional industrial compsting processes according to DIN Norm EN 13432, turning onto CO2, water and biomass.

巴斯夫 Ecovio®可降解塑料袋依据 DIN EN13432, 此塑料袋完全可降解为 CO2、水和生物质。

卫生 无臭味 清洁

如何提高厨余垃圾收集率?一些研究表明,居民想有一个可操作性的、卫生的垃圾分类收集方案,难闻的气味及虫害妨碍了至今对厨余垃圾的收集。

负责欧洲市场开发的 Peter Pfundtner 表示, "BASF生产高质量的ecovio性能高于标准要求, 材料分解速度更快。"。 Ecovio50%以上采用可再生原料, 如植物油基聚乳酸 (PLA), 符合欧盟2012年颁发生物废料条例中相关的要求。

具有透气性能的 Ecovio 可降解塑料袋减缓了厌氧菌的生长速度

成功案例举例: 德国 Landkreis Bad Dürkheim, Baden-Baden,

加拿大 Norterra 中国 北京,广州



在堆肥厂通过正确的操作工艺证实了4周后 ecovio-袋已基本消失。"关键是提高了堆肥质量,有助于居民分类及收集有机垃圾"

巴特迪克海姆政府议员Erhard Freunscht说,我们现在一直使用ecovio-袋。UTV执行董事史林 先生说:实践证明ecovio-袋在堆肥第一周期就已经完全降解。





使用ecovio-袋不仅便于居民也给堆肥厂带来了很多优越性,减少臭味,减少厌氧霉菌。

Increasing the compost quality of organic waste by using organic waste bags made of ecovio®

Hygienic, odorless, clean

How can the collection rate of biological waste produced in households be increased? According to several studies, people mainly want clean solutions for collecting food left-overs and organic kitchen waste: Unpleasant odors or even insect infestation in the collection containers in the kitchen have previously put many off collecting biological waste.

An option for hygienic collection of organic kitchen waste are bin bags made of the compostable plastic material ecovio® by BASF. "Our ecovio even exceeds the provisions of the standard because the material decomposes significantly faster and thus complies with the requirements of the composting industry" explains Peter Pfundtner, responsible for European market development at BASF. Moreover, ecovio comprises of renewable raw materials such as plant-based poly-lactic acid (PLA) to more than 50% and thus complies with the requirements of the amended ordinance on biological waste of 2012.

Since ecovio is permeable to oxygen, molding of the contained waste is delayed.

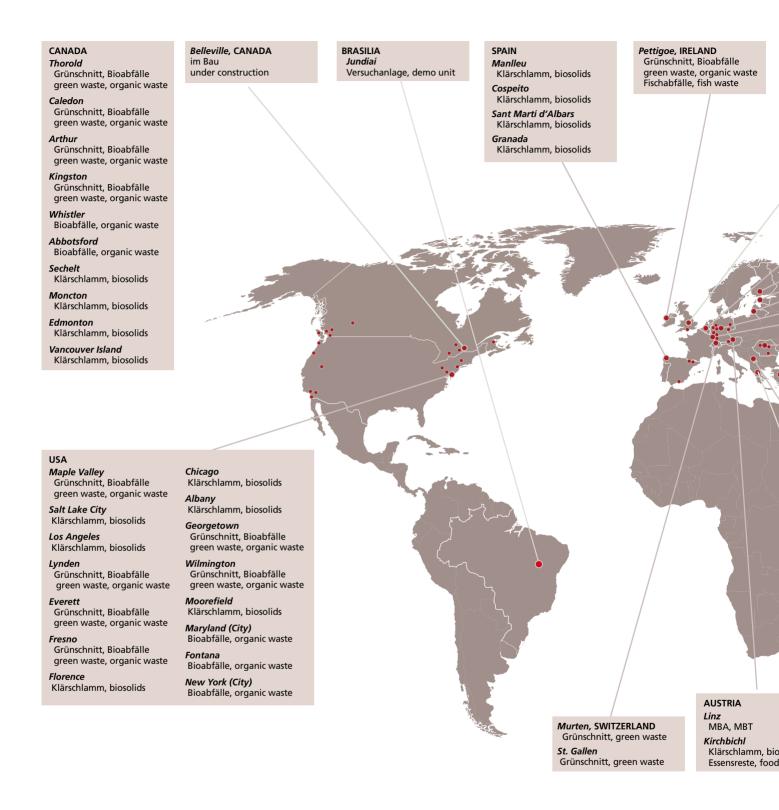
Wide use of such biological waste bags leads to good results, which has been successfully proven by BASF in several projects, for example in the German districts of Bad Dürkheim and Baden-Baden, in Norterra (Canada), in Beijing (China) and in Guanghzhou (China). Analysis of the projects revealed that a significantly higher amount of organic waste was separately collected. Moreover, the participating composting plants confirmed that the ecovio bags had almost completely decomposed as quickly as four weeks, leaving hardly any residues.

"The decisive criterion for us was the high quality of the resulting compost and that the bags made it easier for people to separate and collect the organic waste. Therefore, we will grant continuous permanent use of ecovio® bags" says Erhard Freunscht, district councilor of the Bad Dürkheim district. Thomas Schlien, CEO of UTV: "Experiments have shown that the organic waste bags made of ecovio® were decomposed during the first intensive decomposition phase virtually by 100 percent."



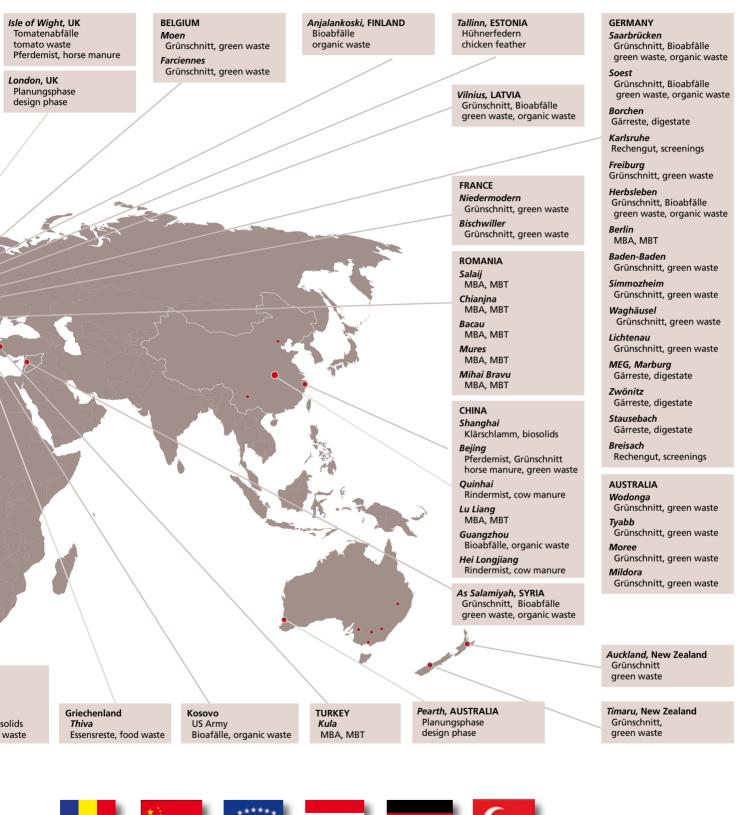


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Cover Winder PWF 10

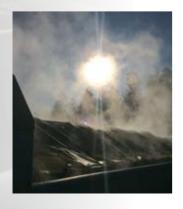




卡尔夫市固废管理中心的堆肥实验

2013年11月底,应卡尔夫市 AWG Calw 固废管理中心的邀请,在西莫茨海姆 Simmozheim 进行 了园林垃圾堆肥实验。实验目的:尽可能快的达到卫生化,出料便于筛分及最大程度的降解。 卫生化在一周后已经达到。六周后取得了降解级 5 (Rottegrad 5 德国最高降解等级)。成功的实 验,促成了该堆肥厂的建立。

Green waste composting experiment at AWG Calw



At the end of November 2013, a green waste composting experiment was started at the Recycling Centre Simmozheim in cooperation with AWG Calw. The objective of the experiment was fastest possible pathogen kill, obtaining of sievable material, and a highest possible degree of rotting after completion of the experiment. Pathogen kill was achieved after one week and after as little as six weeks of composting, rotting degree 5 was achieved. The successful outcome of the experiment resulted in commissioning of the complete system.

The successful outcome of the experiment resulted in an order for a complete system.

有机原料





















Organic problem Raw Material







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让我们一起堆肥!

