Landfill gas - a global review

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A vacuum is applied to the system of wells and trenches to draw the gas into the collection system. Renewable Natural Gas LFG can be upgraded to renewable natural gas RNG, a high-Btu gas, through treatment processes by increasing its methane content and, conversely, reducing its CO 2, nitrogen and oxygen contents.

Landfilling of waste: accounting of greenhouse gases and global warming contributions

Large variations may exist in the composition of landfill gas due to differences in sources of municipal solid waste and operating conditions at the landfill. Waste is crushed and compacted—so it occupies as little space as possible—then transported in lorries to outdoor landfill sites, where it is dumped and buried under layers of soil to decompose.

Landfills: a serious problem for the environment

In many cases the conditions for using LFG on site or in the near vicinity are not existing because there is no energy user. It is fairly common for landfills to flare gas due to odor concerns, for example, even if not the landfill is not subject to regulatory requirements.

ATSDR

Landfills affected by RCRA Subtitle D are required to control gas by establishing a program to periodically check for methane emissions and prevent off-site migration.

Landfill Gas Project Screening Tool

Currently, the phosphoric acid fuel cell PAFC is the only commercially available noncombustion energy recovery technology.

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