

Some people
talk rubbish.



We turn it into energy.

Feedstock Focus

TMO stands for 'thermophilic (heat-loving) micro organism' - the bacterium at the core of our proprietary TMO Process.

The TMO Process works in a way that lowers many of the economic barriers that previously restricted the production of cellulosic ethanol. We are currently focusing on using feedstocks that are already available. This allows us to implement our process much faster.

Municipal Solid Waste (MSW).... also known as rubbish or garbage:

With the increasing environmental awareness and the impact of high landfill fees, recycling waste has become ever more important. Many countries such as the US, UK, China, EU and Brazil produce in excess of 200 million tonnes of waste per year most of which is currently landfilled and emits methane, a potent greenhouse gas. The UK tax per landfilled tonne is currently £56 increasing total landfill costs to more than £80 per tonne. The TMO Process can turn the organic fibre fraction of MSW into ethanol. This fibre typically comes from paper, cardboard, food scraps and garden debris.

Agricultural Wastes:

There is an abundance of agricultural waste material that can be used as cellulosic feedstock for ethanol production. China produced over 800 million tonnes of agricultural waste in 2010, the US produced 400 million tonnes. Agricultural waste remains once crops have been harvested for human and animal consumption. For corn or maize, this includes the stalks, cobs and leaves. A portion is left behind in the fields to prevent soil erosion and maintain soil nutrients. The rest can be turned into ethanol.

Fractionated Dried Distillers Grains and Solubles (DDGS) Process:

Dried Distillers Grains and Solubles (DDGS) is an animal feed that is produced along with ethanol at existing US corn ethanol plants. TMO has proposed a solution to a number of existing producers that offers them additional revenue streams. These include a cellulosic fibre stream and syrup stream, both of which could be used in the TMO Process, a high protein animal feed and an oil stream for animal feed.