

# Organic Power's revolutionary energy production system:

## Biomethane: Renewable Natural Gas from organic materials and wastes

- Using renewable energy reduces the use of fossil fuels. The carbon in fossil fuels was taken out of the atmosphere millions of years ago by plant life and locked up in coal, oil and gas, from an era when there was almost no oxygen and the majority of the earth's atmosphere was carbon dioxide. Burning fossil fuels releases this locked up carbon back into the atmosphere as carbon dioxide (a greenhouse gas) which causes climate change
- Organic Power's technology converts organic materials into renewable energy by combining aerobic and anaerobic digestion in a series of minimum energy shaped tanks supported in lagoons of water which can be heated by solar power, to replace conventional cylindrical tanks. The result is maximum energy production and the complete conversion of organic materials into **biomethane**, clean fertilisers and other valuable products whilst allowing the recovery of heavy metals. Patents are now in place covering 87 countries
- Less than half the food grown in the world is actually eaten, which means that more than half is available as a renewable resource. Capturing the methane given off from food wastes, which would otherwise become a damaging greenhouse gas some 21 times worse than carbon dioxide, and using it as a transport fuel offers better climate damage mitigation than any other technology
- Organic Power's technology actually offers a positive environmental improvement, giving a whole new meaning to the concept of climate change. Other alternative fuels such as biodiesel, bioethanol, wind power, solar energy, wind and wave power, electricity, or hydrogen all merely reduce climate damage by being 'less bad' than fossil fuels, rather than actually improving the environment
- Energy is more than just electricity. Over one third of the world's energy requirement is for transport, and biomethane is quietly establishing itself as the world's cleanest fuel

Envisage the cleanest fuel being renewable

This was our vision

This is now the world's reality

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