



Press Release

New Power Generation at Waterbeach

Another step forward in sustainable waste management in Cambridgeshire has been taken by Donarbon at their Waterbeach Waste Management Park with the generation of electricity from landfill gas.

Donarbon, working with renewable energy technology provider Andigestion, have connected the gas collected from years of landfilling waste to a gas engine that generates electricity which is exported to the national grid.

Mike Lowe, Andigestion's Director said, "Landfill gas is produced from degrading waste and is mainly a mixture of methane and carbon dioxide. The gas engines we operate burn the methane to generate electricity, turning the potential negative environmental impact of releasing methane, a highly potent greenhouse gas, to the atmosphere into a positive of renewable power generation. We are delighted that the scheme, on which we have worked closely with Donarbon, is now producing renewable energy and replacing electricity produced from fossil fuels."

The electricity now being generated at Waterbeach is sufficient to power over 1,400 homes, equivalent to villages roughly the size of Meldreth or Haslingfield, and it will continue to be generated from landfill gas well into the 2020s.

Mark Davenport, Donarbon's Managing Director said, "As a local, family owned business we take our environmental commitment seriously and are pleased this project is now fully operational. Visitors to our recent open day at Waterbeach seemed impressed at the efforts we have made to engineer our landfill sites to help actively capture as much gas as possible."



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The new landfill gas-burning generator stands alongside an existing electricity generator, powered by methane gas produced from an anaerobic waste digester, also operated by Andigestion. Electricity from this powers an electrolysis plant at Waterbeach that produces hydrogen and oxygen from water.

Mark Davenport added, "The hydrogen and oxygen produced on our site goes to a number of industrial outlets as well as to Cambridge University, but we are also discussing the possibility of one of our local councils converting a refuse truck to run on hydrogen, so that eventually the truck will be powered, indirectly, by the waste it collected a few days previously".

ENDS

Notes for the editor.

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The attached photographs show the electrolysis plant with hydrogen cylinders in the foreground and the anaerobic digester in the background.