

The Magical Animal: Pork sustainability and the circular economy

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Pork leads the way in sustainability & the circular economy

\$6 billion industry

Reduced emissions by more than 70% since the 1980s

Reduced fossil fuel use by 58% since the 1980s

Pork is now the **second lowest emission protein** at 3.3 kg CO₂ per kg of live weight.

44% of farms are **recycling water** on farm.

78% of farms are **reusing effluent** on crops.

58% of farms are **composting bedding and manure**.

15% of producers surveyed utilised **manufacturing food waste**

27% of producers surveyed utilised **agricultural waste**



You'll be surprised by who is using pig products



Food products

Primary Cuts: Bacon, ham, pork chops, ribs, roasts.

Processed Products: Sausages, hot dogs, pâtés, salamis.

Organ Meats: Liver, kidneys, heart, intestines (e.g., casings for sausages).

Blood: Black pudding, blood sausages.

Bones and Skin: Gelatin for desserts, marshmallows, and food stabilizers.

Fat/Lard: Cooking, baking, frying, and pastry-making.

Medical & Biomedical Applications

Insulin: Extracted from the pancreas.

Heparin: A blood thinner derived from pig intestines.

Collagen: Used in wound care, cosmetic procedures, and reconstructive surgeries.

Skin: Used for burn treatments and grafts.

Organs: Heart valves for transplants, emerging uses in xenotransplantation.

Agricultural Uses

Feed: By-products rendered into protein meal for livestock feed.

Composting: Unusable parts returned to the soil.

Industrial products

Gelatin: Beyond food, used in photography, paper coating, and pharmaceutical capsules.

Adhesives: Derived from collagen for glue.

Brushes: Bristles made from pig hair.

Biodiesel: Rendered fat processed into biofuel.

Fertilizer: Bones and blood processed into agricultural fertilizers

Miscellaneous

Cosmetics: Fat used in soaps, moisturizers, and lipsticks.

Pet Food: Ingredients from less desirable cuts or offal.

Leather: Skin processed into high-quality leather goods.

Sustainability is already BAU and growing



Composting



**Approved food waste
for feed**



**Renewable energy
sources**

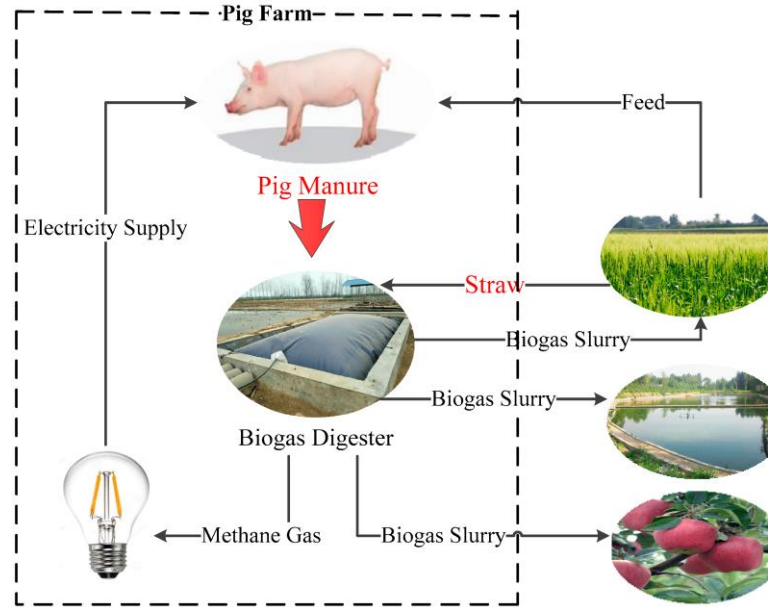
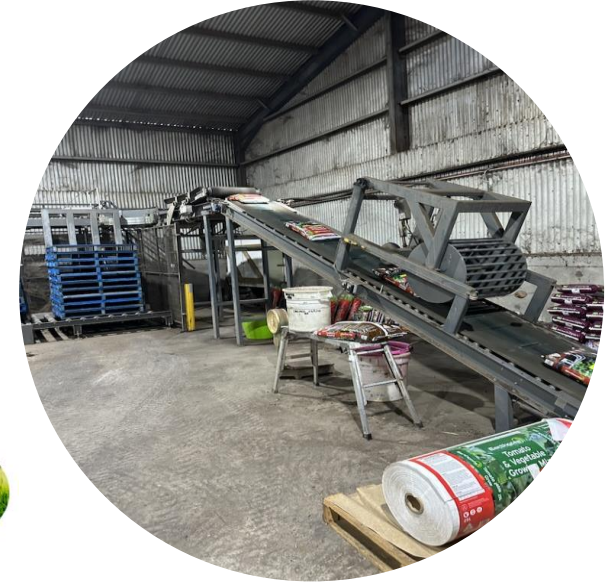


Waste water recycling



Manure composting

Pig effluent is a key opportunity



Blantyre Farms is leading the way



Want to find out more about the 'magical animal'?



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