



## WHAT IS WASTE-TO-ENERGY?

Waste-to-energy is the process of generating energy – electricity, heat or fuel – through the treatment of various waste products. Waste-to-energy doesn't involve drilling, fracking, or mining, and it doesn't rely on scarce and politically-charged resources like oil.

**Waste-to-energy involves repurposing organic waste – a “resource” abundantly available all over the world.**

Wouldn't it be nice if we could turn food waste into a source of fuel, rather than dumping it in a landfill?

## WHO'S WASTING FOOD?

Along the journey from food production to distribution to consumption and finally disposal, food is lost or wasted every step of the way.



THIS AMOUNTS TO ABOUT **1.3 BILLION TONS** OF FOOD WASTED EACH YEAR

THAT'S APPROXIMATELY

**1/3**

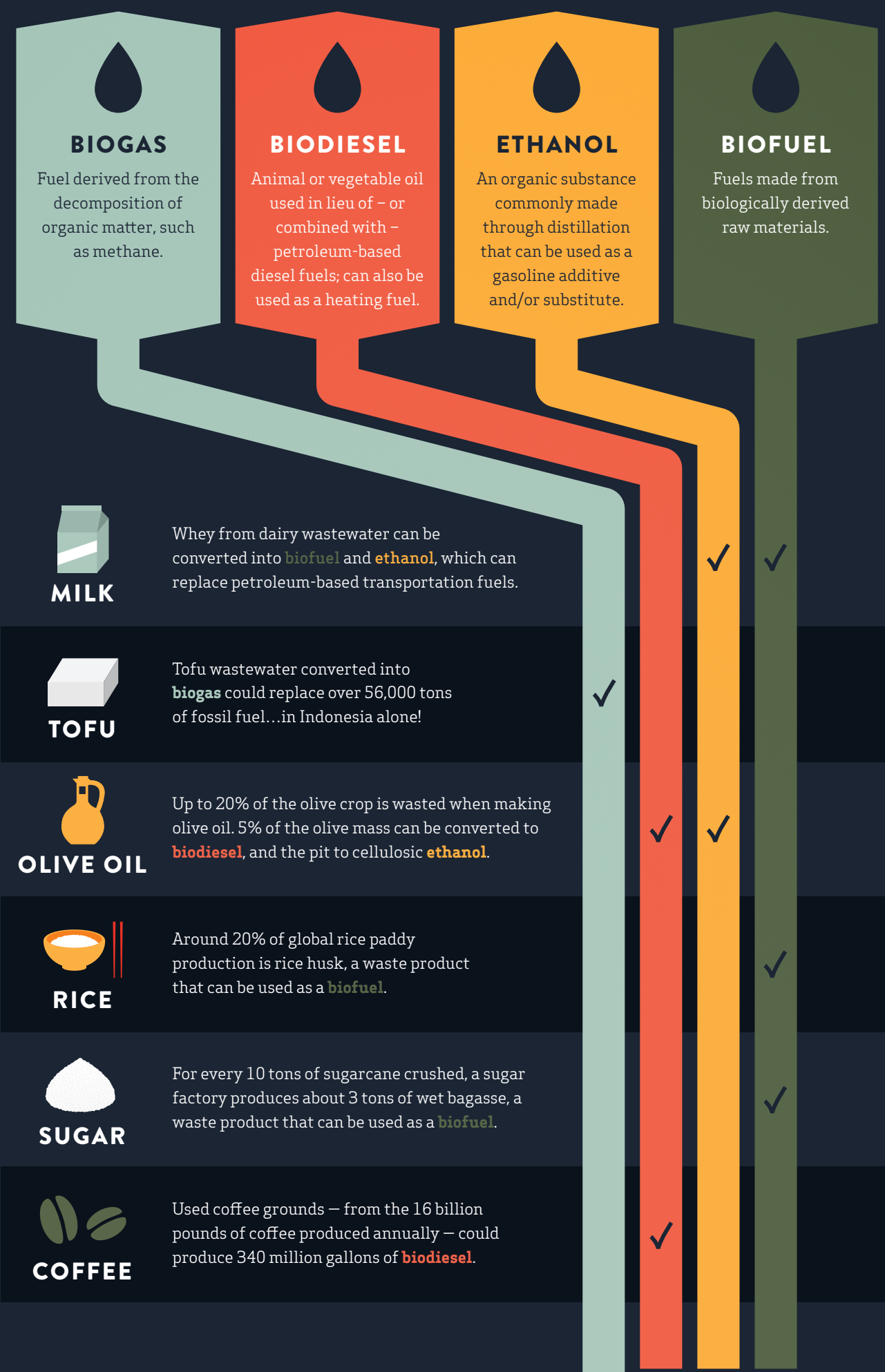
OF ALL FOOD PRODUCED GLOBALLY FOR HUMAN CONSUMPTION

WHAT HAPPENS TO ALL THAT WASTE?



\* Most of the waste from food production goes into wastewater systems, where it uses energy to treat the material instead of generating energy from the material.

## FUELS MADE FROM LEFTOVERS



## FOOD WASTE BECOMING FUEL

TWO CASE STUDIES FROM RWL WATER GROUP



**AT A BREWERY**  
in Bari, Italy – which produces 53 million gallons of beer annually – waste from the brewing process can produce 3,700 Nm<sup>3</sup> of Methane per day.

**Enough biogas to power ABOUT 280 HOMES PER DAY!**



**AT A SLAUGHTERHOUSE**  
in Verona, Italy – which processes over 300 million lbs of poultry annually – waste is converted into 6,000 Nm<sup>3</sup> of Methane per day.

**Enough biogas to power ABOUT 480 HOMES PER DAY!**

These are just two examples of successful waste-to-energy facilities around the world built and operated by The RWL Water Group. Imagine if waste-to-energy solutions like these were implemented at every slaughterhouse and brewery across the globe!

## THE ANSWER TO OUR ENERGY NEEDS?

Anaerobic digestion is the main process in waste-to-energy, and there are currently fewer than 1,500 significantly-sized anaerobic digesters across the entire world. We're barely scratching the surface of this potential -- dumping over 70% of the world's food waste into landfills, rather than harnessing it for fuel and electricity. Over the next 25 years, global energy demand will grow by 50%, while global oil supply dwindles at a rapid pace. Waste-to-energy is an obvious solution to meet the world's burgeoning energy demand.



Produced by RWL Water Group, a global water treatment and waste-to-energy systems integrator intent on solving the world's growing need for clean water and clean energy.

Learn More at [www.RWLwater.com](http://www.RWLwater.com)

### SOURCES:

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