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Generating Sustainable Value from Zero Waste

Town of Tusten March 5, 2020

Problem(s)

40%

Food Supply Chain Wasted

Traffic Congestion

Excessive Fuel Consumption

Pay for Waste Removal

Petro-Chemical Dependency

Imported Energy Dependency

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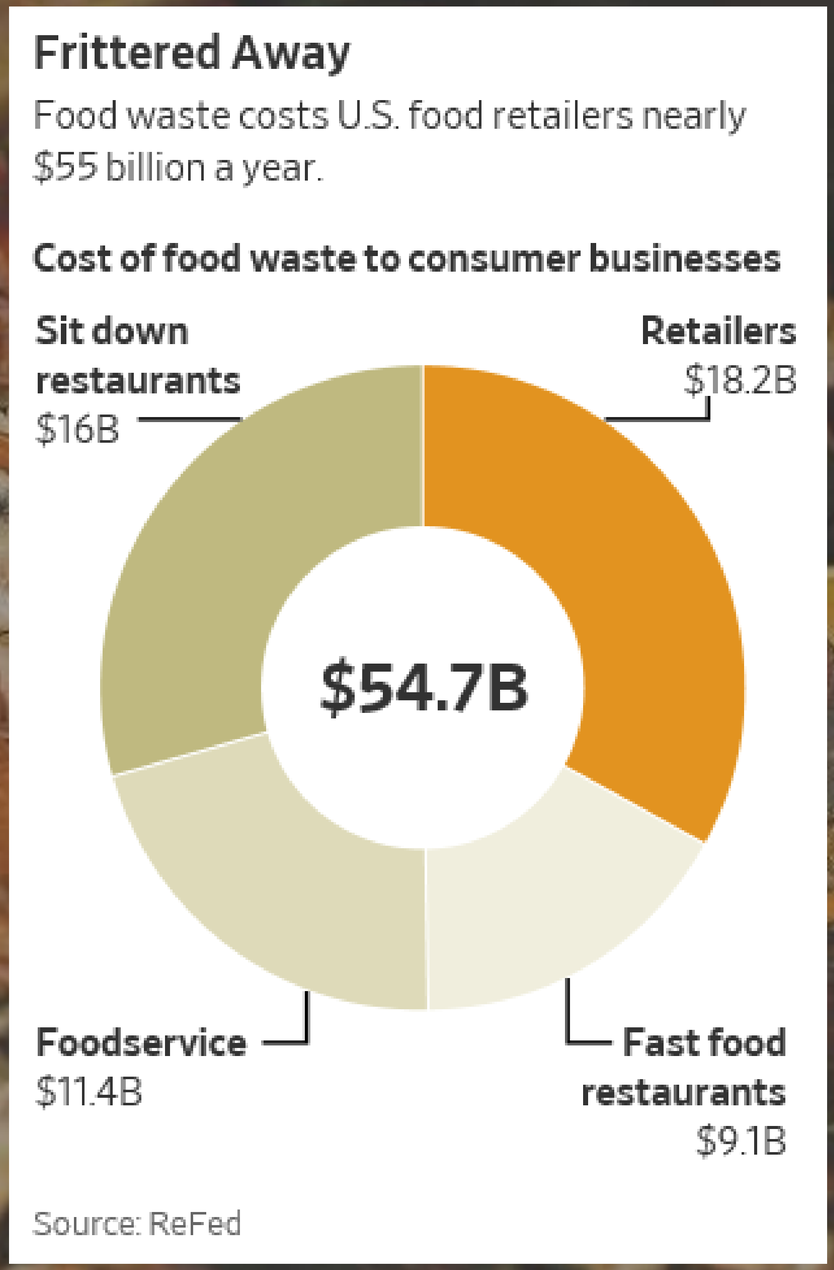
The Anatomy of America's Waste



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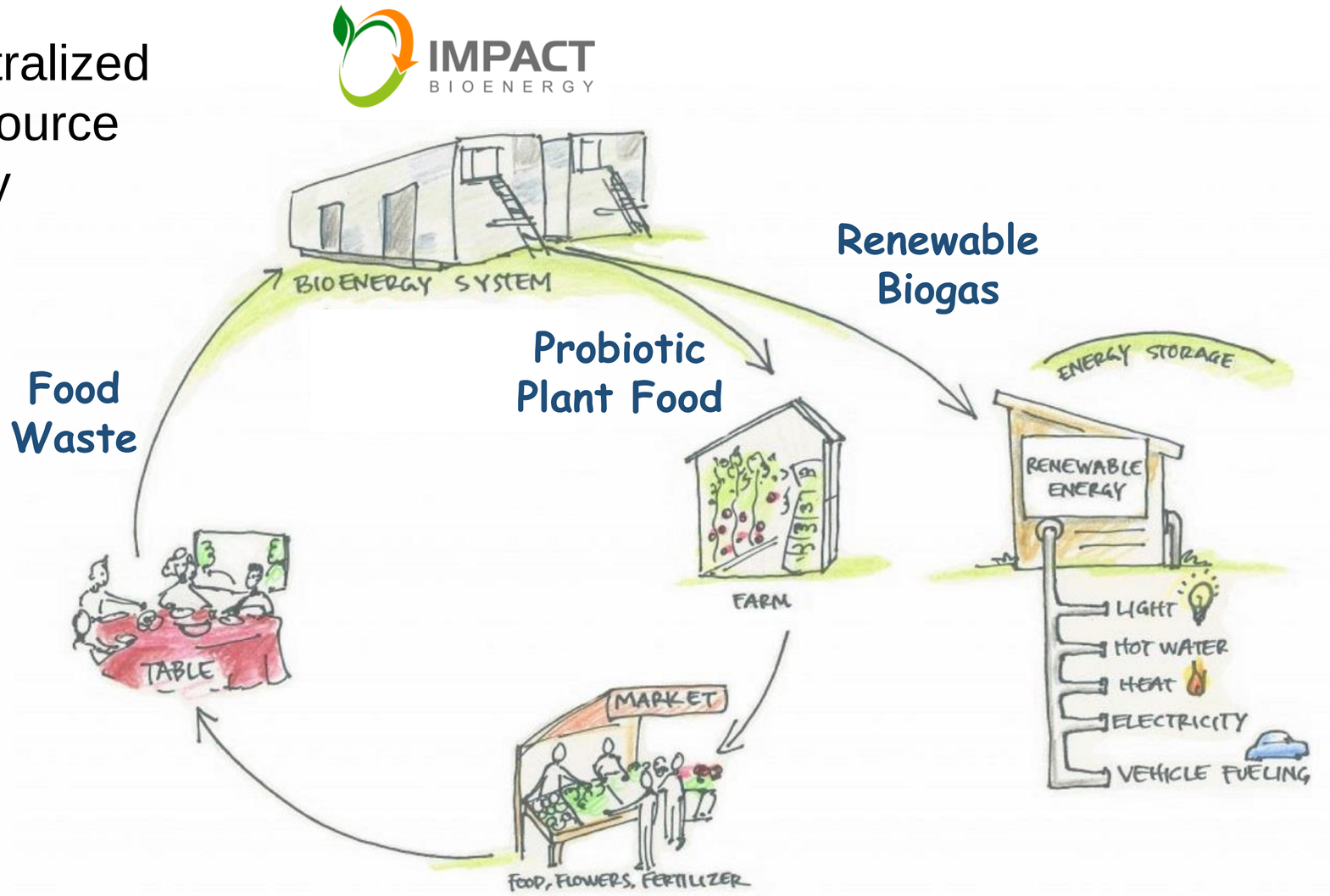
Opportunity

Local & Decentralized
Waste to Resource
Economy



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Food Waste Solutions

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- **Low Cost**
- **Small Footprint**
- **Ease of Use**
- **No Odor**

LOCAL

REGIONAL

LOW BENEFIT

HIGH BENEFIT

Farm Feed

Regional
Composting/Digestion

Landfilling

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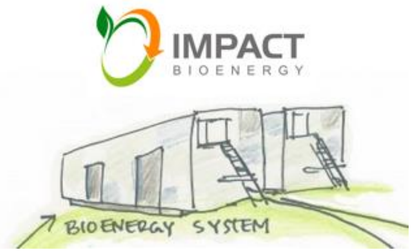
Products



HORSE

25 to 175 tons/year food waste
(135 to 960 lbs/day)

NAUTILUS

185 to 925 tons/year food waste
(1,000 to 5,000 lbs/day)

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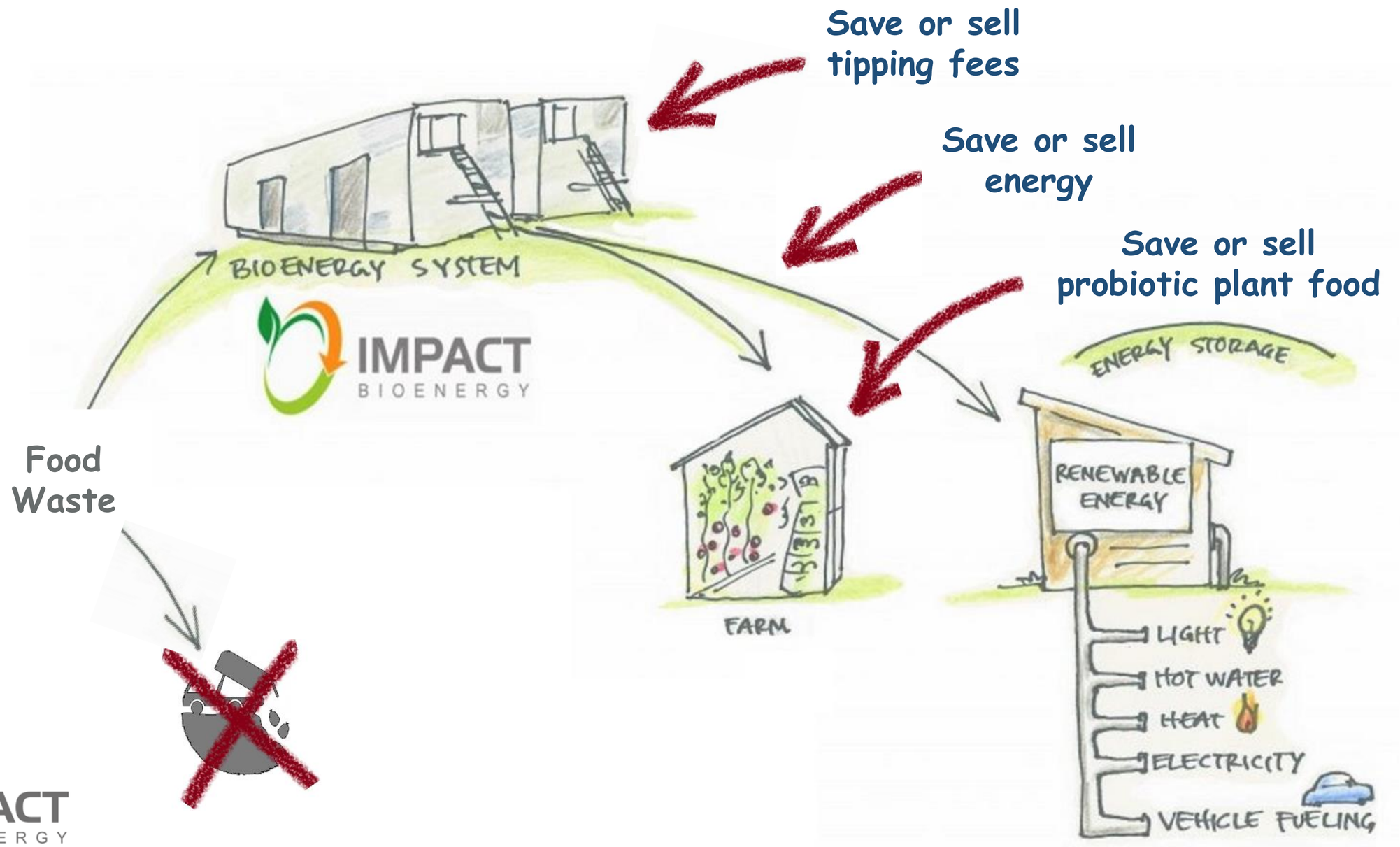
Economic Value Proposition



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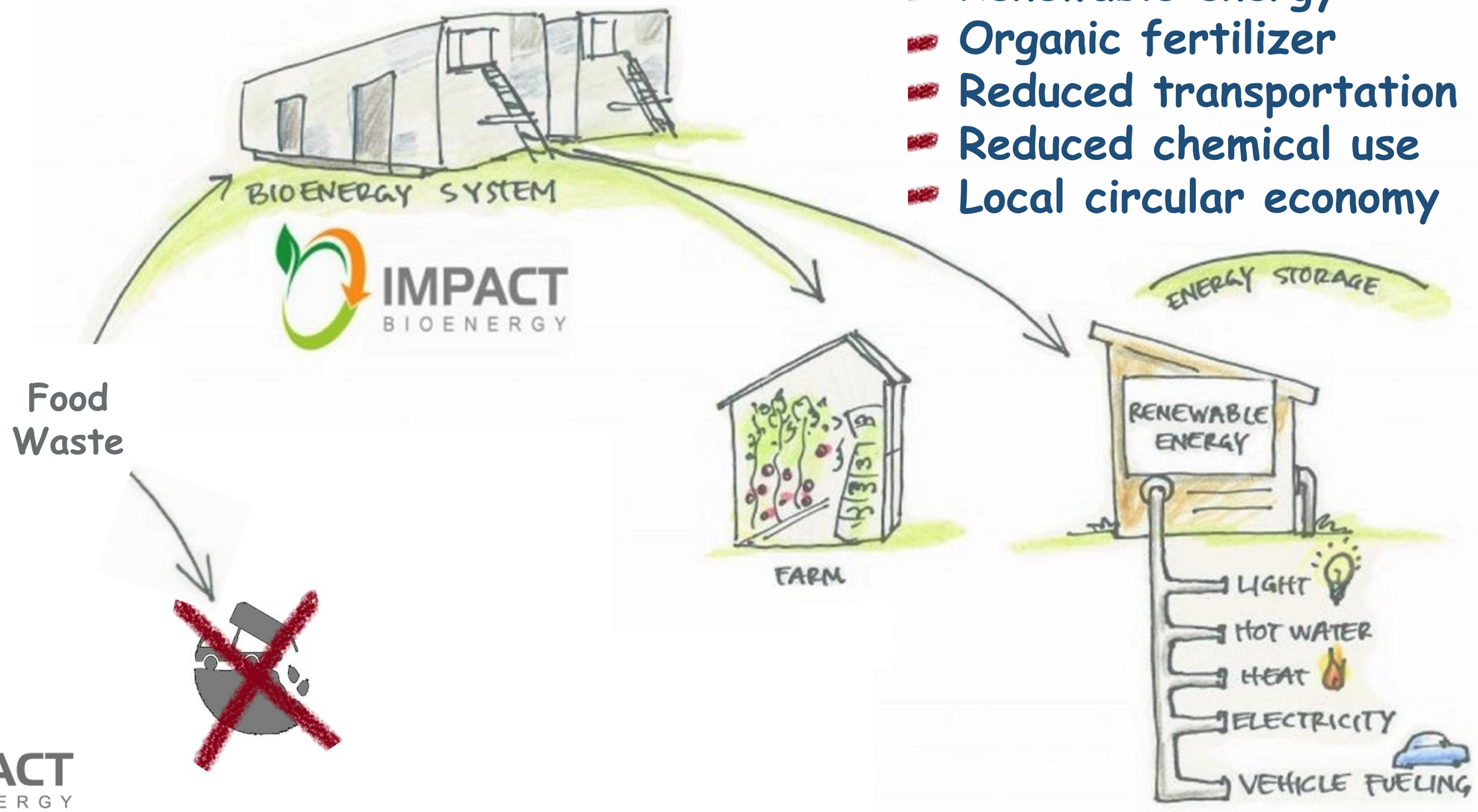
Social Value Proposition

- Zero waste
- Renewable energy
- Organic fertilizer
- Reduced transportation
- Reduced chemical use
- Local circular economy



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Commercial Installations (~20,000 operating hours)

GreenerZone.com
Turning garbage into recycling

2014
Serial No. 1

King County

2015
Serial No. 2

Crooked Shed Farm

2016
Serial No. 3

City of Seattle

2016
Serial No. 4

PSE PUGET SOUND ENERGY

2017
Serial No. 5

Microsoft

2017
Serial No. 6

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Menu

VASHON-MAURY ISLAND BEACHCOMBER

News Sports Life Business Opinion Calendar Letters to the Editor

Kevin Opsahl/Staff Photo Srirup Kumar, community engagement officer for Impact Bioenergy, points to a systems diagram of the "circular economy" during an event at Vashon's Matsuda Farm on Monday, Jan. 28.

BIO IMPACT: Auburn company urges Vashon's farming community to change practices

By Kevin Opsahl

Tuesday, January 28, 2020 4:34pm | NEWS

[Exciting Press From Vashon Island]

[Jan 2020]

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CONVERT WASTE TO VALUE

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REDEW
HUDSON ORGANICS
PROBIOTIC PLANT FOOD
Made in small batches organically by the Hudson HORSE at the Basilica.
LIQUID AND DRY BLENDS AVAILABLE

RENEWABLY & LOCALLY PRODUCED IN HUDSON, NY
REDEW is an awesome alternative to chemical fertilizers that is allowed under the USDA National Organic Program and promotes more biomass, vigor and nutrient cycling.
For more information please visit, impactbioenergy.com and redeworganics.com.
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BASILICA HUDSON

Town of Tusten HORSE Microdigester, Model AD25 and Food Rescue Program

Funded by 2018 DEC Municipal Food Scraps Reduction, Food Donation and Food Scraps Recycling Programs

- Objectives

  ✓Increase food rescue and food donation for the food insecure

  ✓Install HORSE Microdigester, Model AD25

  ✓Increase food waste diversion from businesses and residents

  ✓Train the Tusten Energy Committee for Year 2 project maintenance

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Thank You!

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