



DIVERT WASTE. GENERATE ENERGY.

BIOENERGY SCALE – RATE – COST – VALUE SUMMARY

IMPACT BIOENERGY’s prefabricated bioenergy units drive down capital costs and allow delivery and installation to be accomplished in under six months. With minimal space requirements, our systems can be deployed adjacent to organic waste streams or within a tight and valuable urban footprint allowing for the distributed generation of energy from waste.



TECHNOLOGY BRANDS

Our four commercial digesters are described below. They are all Anaerobic Digestion Systems that generate and store onsite renewable energy.



HORSE – what we are building and operating now – award winning technology! The scale is 25 to 175 tons per year



NAUTILUS – our scale up of the HORSE (we are looking for our first partner). The scale is 185 to 925 tons per year



OX – a technology partnership to build and deliver a ‘dry’ digester that can take paper, wood, landscape and food at 215 to 1100 tons per year



BUFFALO – our export equipment and license to international partners. The scale is 1 to 175 tons per year

System Name	Designation	Food Waste in tons per year input	Plant Food out gallons per year	Energy out MMBTU per year	Capital Investment	Operating Cost per year	Operating Value Stream per year
HORSE	AD 25; AD 25-2	25 to 175	5,700 - 40,000	131 - 920	\$80,000 - \$400,000	\$4,300 - \$10,000	\$16,000 - \$118,000
NAUTILUS	AD 185; AD 185-2	185 to 925	42,000 - 211,000	972 - 4,862	\$350,000 - \$1,000,000	\$31,000 - \$50,000	\$106,000 - \$534,000
OX	AD 550	215 to 1100	to be announced	to be announced	to be announced	to be announced	to be announced
BUFFALO	Developing Nations Only	25 to 175	5,700 - 40,000		by agreement only	varies	varies

Note: Capital Investment, Operating Cost, and Value Stream illustrations for specific situations - they are intended to be universal - each project will vary

Note: Energy out is the ultimate maximum rate used in design - assuming zero downtime and feedstock with very high energy density

Note: Plant Food out is without any dehydration, concentration, drying, or other value-add unit operations

CONTACT

Through our technologies, IMPACT BIOENERGY empowers our customers to achieve energy sovereignty, utilize their energy resources to the fullest potential and reduce their environmental impact. For more information on how you can reduce costs while becoming a leader in sustainability contact Michael Smith at IMPACT BIOENERGY at michael.s@impactbioenergy.com | Mobile: 425-773-2231 | Made in Auburn, Washington, USA | www.impactbioenergy.com