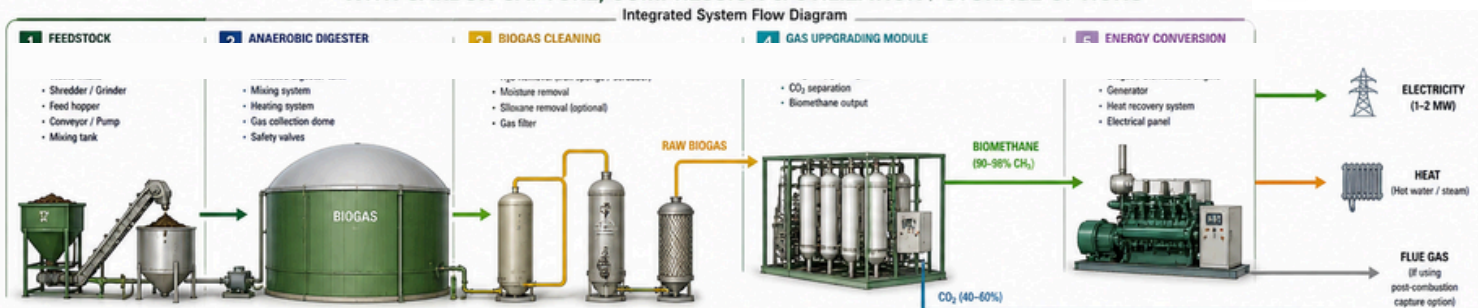


1-2 MW BECCS-READY ANAEROBIC DIGESTER PLANT

WITH CARBON CAPTURE, COMPRESSION & UTILIZATION / STORAGE OPTIONS



Industrial-Grade Component Standards & Integration Partners

System designed for integration with EU-certified industrial automation, compression, and pressure vessel standards



MAN Energy Solutions is now:
Everillence



Certification Frameworks

- ISO 14064-aligned MRV
- EU ETS-compatible monitoring
- ASME / PED vessel compliance



DASHBOARD

Potential Carbon Accounting Output (MRV-Ready)

- Estimated methane avoidance and CO₂ capture: 6,000–10,000 tCO₂e/year
- MRV-ready monitoring system for third-party verification
- Carbon registration optional depending on jurisdiction
- Monetization subject to market validation

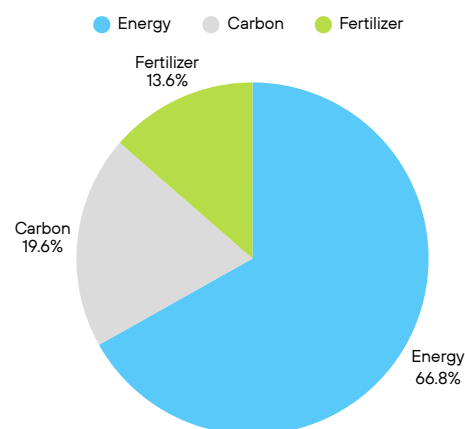
Supplementary Environmental Value Streams

The system is capable of generating verified emissions reduction data through integrated MRV monitoring.

- Estimated methane avoidance: 6,000–10,000 tCO₂e/year
- Data structured for third-party verification
- Eligible for carbon registry submission where applicable
- Monetization optional and subject to regulatory approval

Primary financial sustainability remains based on energy displacement and operational savings.

Illustrative Value Distribution (Infrastructure Model)



30 kW biogas generator	Full BECCS set up,	Industrial Grade
50 kW Modular Waste-to-Energy Unit Power Output: 30 kW continuous ≈ 262,800 kWh annually Deployment Use Case: • 2–3 rice mill motors • Irrigation pumps • Small cold storage • 20–25 AC units • Barangay hall emergency power Energy Impact: • Offsets ~₱2.6M annual grid electricity (₱10/kWh baseline) • Reduces diesel consumption • Converts manure / agri-waste to energy • Produces organic fertilizer by-product Positioning: • Community / farm-level pilot deployment	150 kW Renewable + CO₂ Capture System Power Output: 50 kW continuous ≈ 438,000 kWh annually Designed For: • Food manufacturing • High-volume agri waste • Processing facilities Integrated Features: • Gas scrubbing system • CO₂ capture module • MRV-ready carbon monitoring • Modular expansion to 150 kW+ Energy Displacement Value: Approx. ₱4.3M annually (₱10/kWh baseline) Strategic Benefit: • Methane reduction • Carbon accounting readiness • Waste-to-energy circularity • Emergency off-grid resilience	300 kW Infrastructure System Power Output: 150 kW continuous Suitable For: • Cold storage facilities • Large poultry ventilation • Rice milling & drying complexes • Municipal irrigation systems • 100–150 rural households equivalent Infrastructure Role: Municipal-level renewable energy backbone