

LASER GRADE CHECK
± 0.05 FT

WELLFIELD MONITORING & TUNING
ROUTE 87 • MONTHLY EVENT
24/7 ON-CALL COVERAGE

BIOGAS ENGINEERING

SOLID WASTE SERVICES

Engineering, Construction, and Operations & Maintenance solutions for landfill gas, leachate, and renewable energy projects.

36" FUSION MACHINE
4-JAN • DATALOGGED

24" SDR 17 HEADER
STAGED FOR LOWER-IN

HANDHELD ANALYZER
1/2018 • LOGGED PER WELL

WELLS ON ROUTE 24
AVG METHANE 52.8 %
TUNE COMPLIANCE 100 %

“Full lifecycle landfill support — from design, permitting, and construction through O&M, treatment, and regulatory compliance — keeping every site operating and in compliance.”

100+

EMPLOYEES U.S. &
INTERNATIONAL

75+

ENGINEERS ON STAFF

24/7

OPERATIONS
SUPPORT

3

INTEGRATED
DIVISIONS

SOLID WASTE SERVICES

DEPARTMENT OVERVIEW · SWE · SWC · SWO



Biogas Engineering's **Solid Waste Services (SWS)** department delivers integrated solutions for landfills, transfer stations, and biogas-to-energy facilities. Three specialized divisions — Engineering, Construction, and Operations & Maintenance — work as one team, giving clients a single point of responsibility from initial concept through long-term asset performance.

Our staff covers process, mechanical, civil/structural, electrical, and controls engineering, supported by experienced field crews, certified operators, and an in-house controls and SCADA group. Fabrication capabilities in the U.S. and internationally provide schedule flexibility and competitive pricing without sacrificing quality.



THREE DIVISIONS, ONE TEAM

ENGINEERING (SWE)

Permitting, design, CQA, and regulatory support for landfill development (diligence, siting, cell/liner, capping, closure, post-closure), GCCS, leachate management, flares, blower stations, and renewable energy facilities — covering process, mechanical, civil, structural, electrical, and controls.

CONSTRUCTION (SWC)

Self-perform and turnkey construction of GCCS systems, flare and blower stations, leachate and condensate systems, civil/grading, and skid-mounted equipment, troubleshooting, diagnosis, urgent and emergency repairs and response.

OPERATIONS & MAINTENANCE (SWO)

Daily wellfield operations, surface emissions monitoring, production tuning, flare/skid operations, liquids management, compliance reporting, and 24/7 emergency response.

CORE CAPABILITIES

- **GAS COLLECTION & CONTROL SYSTEMS** — design, construction, expansion, operation and maintenance of GCCS
- **FLARE & BLOWER STATIONS** — open, enclosed, thermal oxidizers, and low NOx flares, controls, and blower stations
- **LEACHATE & LIQUIDS MANAGEMENT** — forcemains, tanks, condensate systems, evaporation, storage, and truck loadout
- **RNG & LFG-TO-ENERGY** — end-to-end design, fabrication, construction, and operation of gas upgrading and beneficial-use facilities
- **PERMITTING & COMPLIANCE** — air, water, NSPS/EG/NESHAP, surface emissions monitoring, and regulatory interface
- **CONSTRUCTION QUALITY ASSURANCE** — earthwork, geosynthetics, GCCS, and LFG probe oversight with certification reporting
- **CONTROLS, SCADA & OMAI™** — proprietary cloud platform for wellfield, flare, and RNG facility analytics

INDUSTRIES WE SERVE

- Municipal & Private Landfills
- RNG & LFG-to-Energy Facilities
- Dairies & Dairy Clusters
- Wastewater Treatment Plants
- Food/Organic Waste Anaerobic Digestion Facilities

SOLUTIONS WE PROVIDE

- LFG wellfield extraction efficiency and effectiveness, increased compliance
- Increased plant efficiency, less unplanned downtime, increased export (MWh, MMBTU)
- Controls and SCADA system diligence, optimization, increased predictable outcomes
- Feedstock management, import gas conditioning, export production optimization

THE BGE ADVANTAGE

A vertically integrated team — engineering, construction, O&M, and 24/7 support under one roof — reducing handoffs, schedule risk, and total project cost.

BIOGAS ENGINEERING

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LEARN MORE

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Connect with our
Solid Waste team

