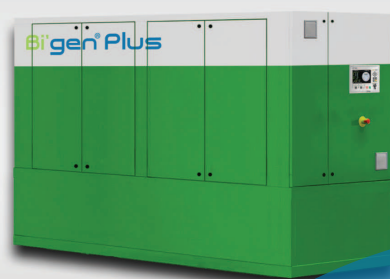
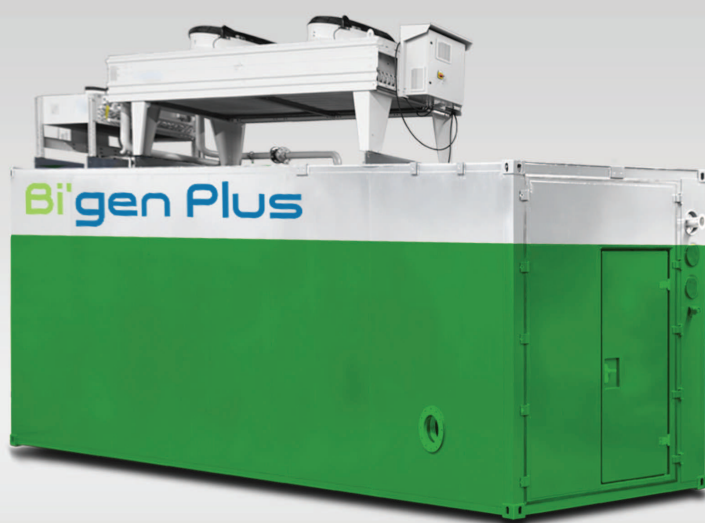


Bi'gen®

Premium CHP Solution



A range of CHP units Designed to meet Your Energy Requirements

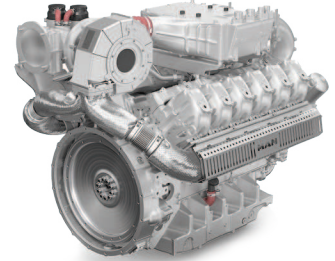


Industrial Manufacturing
Plug & Play Units
Optimized Lifespan
Economic Profitability
Enhanced Security and After-Sales Service

Combined Heat and Power

Combined Heat and Power (CHP) is a continuously evolving technology that utilizes a combustion engine, fueled by various sources, to generate electricity. The heat recovered from exhaust gases and the engine cooling system, is captured through heat exchangers, which can be used to support processes like anaerobic digestion or provide heating for agricultural, industrial, or residential buildings.

By using biogas, CHP systems significantly reduce CO₂ and CH₄ emissions, playing a key role in mitigating global warming.



Fields of Application



Biogas



Water Treatment



Industries



Commercial Centers



Hotels



Communities

Bi'gen®

A CHP solution on-skid

Bi'gen®, our compact CHP units provide efficient thermal recovery. Their innovative design simplifies installation and minimizes space requirements. All key components, such as the engine, generator, heat exchangers, pumps, silencer, and control cabinet, are mounted on a single skid.

High-Performance Engine

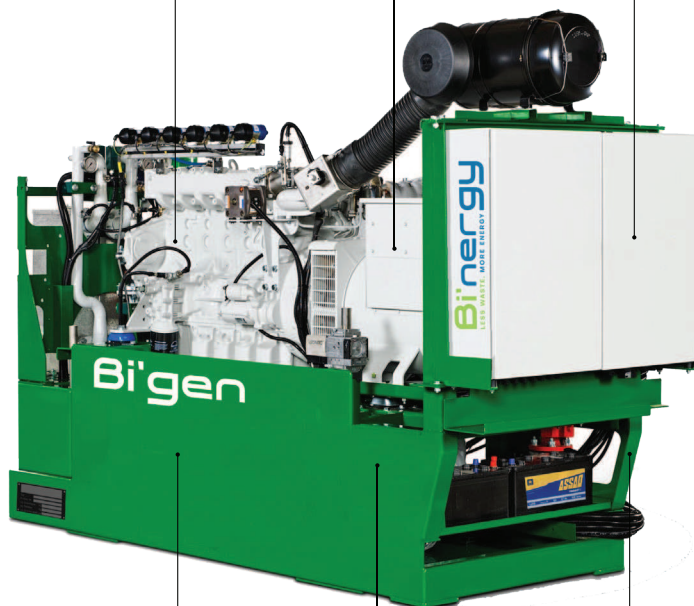
German MAN engines recognized for their efficiency, reliability, and low maintenance, allowing for extended operational periods.

Reliable Generator

Our Leroy Somer generators, renowned for their quality and reliability, are recognized as industry leaders in the field of CHP generators.

Electrical Cabinet

Ensure seamless automatic operation and remote monitoring, and can be installed in close proximity to optimize space utilization and facilitate integration.



Compact

Designed for easy integration into compact spaces, this unit features a modular design that is ready for immediate connection.

Heat Exchangers

Exhaust gas exchanger and plate exchanger by Aprovis, ensuring maximum heat recovery.

Ecological

Low emissions that comply with the stringent environmental standards, allowing installation in protected urban areas.



Bi'gen® Plus

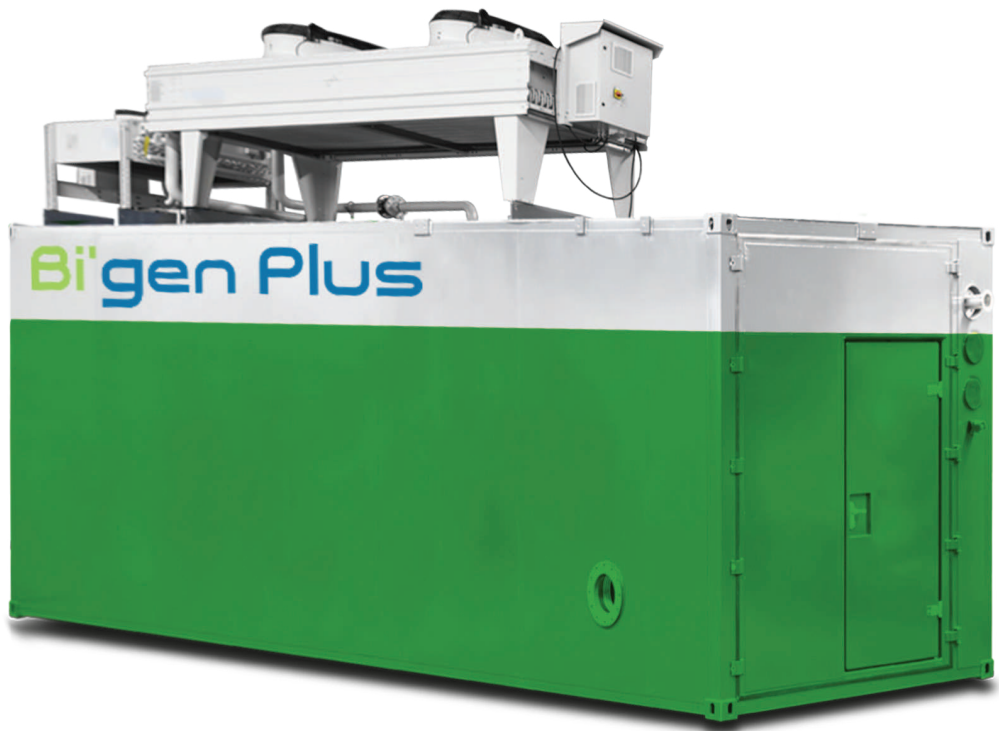
Containerized CHP Solution

Bi'gen® Plus is the containerized CHP solution offered by Bi'nergy. Its modular design allows for a wide wide array of customizable options to meet specific client needs.

The following equipment could be integrated in the containerized solution :

- Gas booster
- Gas treatment equipments
- Ventilation system
- Flow meter and gas detectors
- Hot water distribution circuit
- Sound insulation
- Automatic flare

- Automatic operations
- Remote monitoring and control
- Optimal thermal and sound insulation



* Standard color RAL 6037
Other colors available upon request.

Power range

Our standard units are powered by high-performance gas engines from globally recognized manufacturers, with power ratings ranging from 18 to 300 kWe. (other power options are available upon request). These units are designed to operate with a wide variety of gases, including natural gas, biogas, LPG, wood gas, and other specialty gases. This versatility ensures that our solutions can be tailored to meet the specific requirements of diverse applications and operating environments.

CHP unit	Engine	Electrical Power (Efficiency)	Thermal Power (Efficiency)	CHP unit	Engine	Electrical Power (Efficiency)	Thermal Power (Efficiency)
Bi'gen 18	TOYOTA 4Y	18kWe (29,5%)	37kWth (60,6%)	Bi'gen 100	MAN E0836 LE302	100kWe (37,5%)	126kWth (47,2%)
Bi'gen 40	MAN E0834 E302	42kWe (33,9%)	61kWth (49,2%)	Bi'gen 125	MAN E2876 TE302	125kWe (36,4%)	166kWth (48,4%)
Bi'gen 50	MAN E0834 LE302	50kWe (35,0%)	70kWth (51,9%)	Bi'gen 160	MAN E2876 LE302	160kWe (38,5%)	183kWth (44%)
Bi'gen 64	MAN E0834 LE302	64kWe (35,9%)	90kWth (49,2%)	Bi'gen 180	MAN E2876 LE302	180kWe (38,6%)	207kWth (44,4%)
Bi'gen 75	MAN E0834 LE322	76kWe (36,2%)	97kWth (46,2%)	Bi'gen 200	MAN E2876 LE202	200kWe (38,5%)	220kWth (42,3%)
Bi'gen 90	MAN E0836 LE302	90kWe (36,4%)	119kWth (48,2%)	Bi'gen 300	MAN E3268 LE262	308kWe (40,3%)	338kWth (44,2%)

Turnkey Projects

At Binergy, we work closely with our clients to assess their needs and deliver customized and optimized technical solutions, for the seamless installation of CHP systems. Our team is equipped to address a wide range of design and implementation challenges, ensuring that every project meets the highest standards. We continuously enhance our after-sales services, to maintain the quality and reliability of our solutions over time. This commitment to excellence allows us to guarantee the ongoing satisfaction of our clients and partners.



Bi'nergy offers its clients



High-Quality Industrial Manufacturing



Easy installation and reduced footprint



Maximum Performance and Availability



Low Emissions and Reduced Noise Levels



Safety, Reliability, and Simplified Maintenance



Optimized Economic Profitability

Services



Design

Our multidisciplinary R&D team continuously improves our products, focusing on efficiency, sustainability, and emissions reduction. With this expertise, Bi'nergy offers high-quality CHP units that deliver optimal performance and reduced life cycle cost.



Manufacturing

The continuous enhancement of our production capabilities, combined with our organizational and management practices, ensures the highest standards of manufacturing quality. We adopt advanced technologies and assemble components from recognized Tier 1 manufacturers.



Quality

Bi'nergy's CHP units are produced according to a quality management system that complies with the ISO 9001 standard. We are committed to continuous improvement across all our processes.



SAV

Our team of highly skilled technicians ensures prompt intervention and support. With remote monitoring and an available stock of spare parts, we maximize the operational time of our CHP units.



CONTACT-US

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