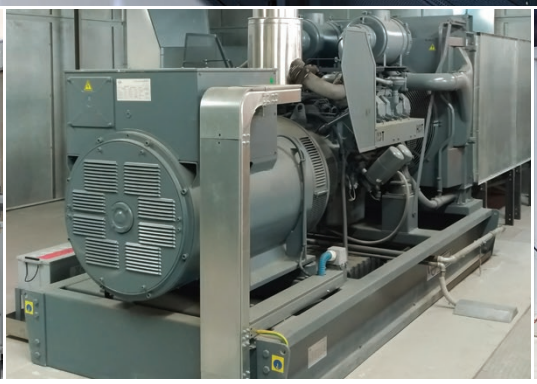
Data Center

Our energy, your power.
Always on.



AUSONIA

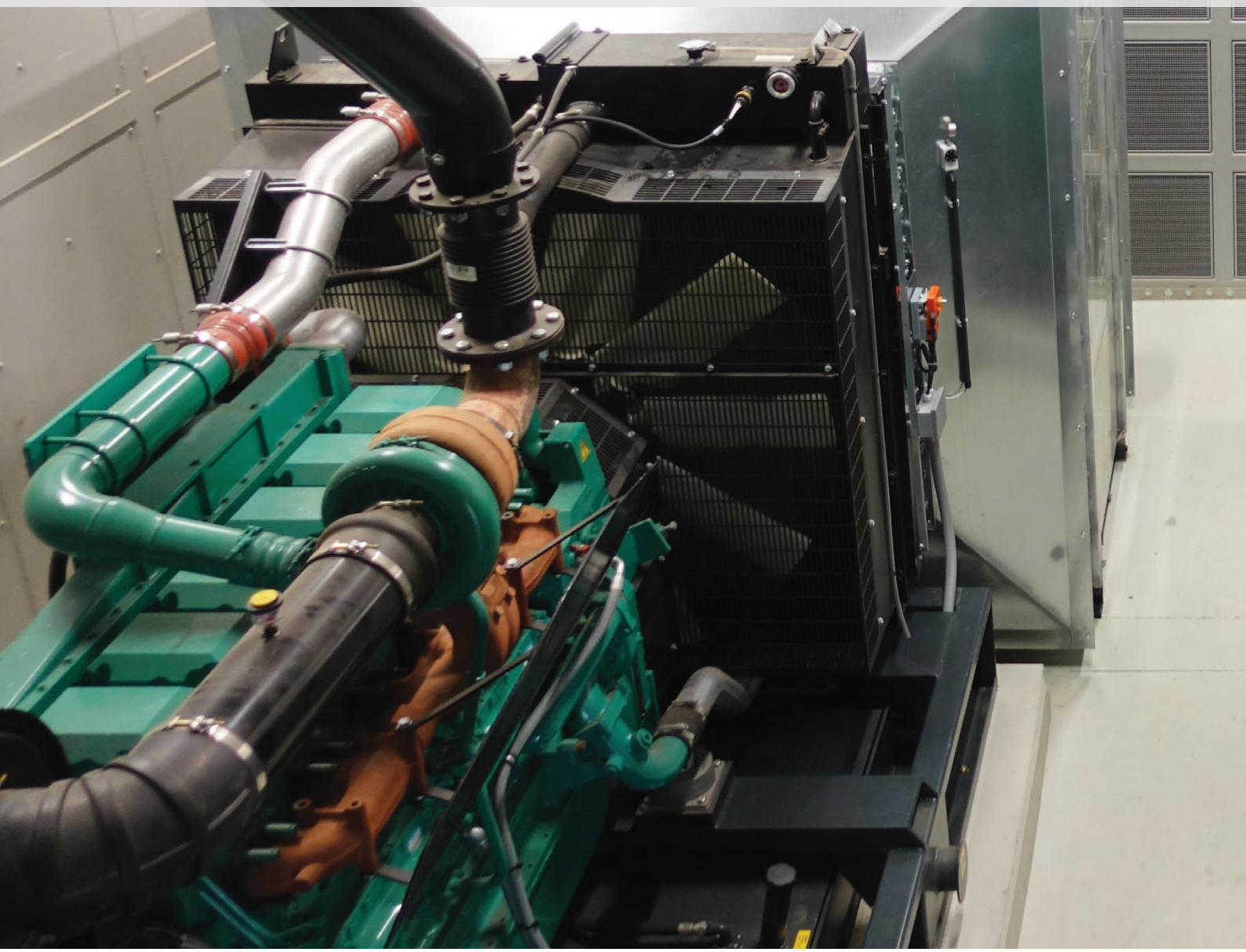
GENERATING SETS
SINCE 1928

The power of experience, the passion for innovation

Ausonia is widely recognised as italian leader in the design, manufacture and delivery of a wide range of standard, customised and bespoke power generating systems.

Counting on its +90 years' experience in the production of tailor-made energy solutions designed around specific Customers' needs, Ausonia is ready to customise the products according to the strictest technical requirements of the Data Center industry worldwide, meeting the newest market standards and the highest levels laid down by the Uptime Institute for benchmarking Data Center reliability, up to Tier IV level ratings.

With its high technological know-how and the newest technology automated production machineries, Ausonia can offer a variety of power configurations with reasonable delivery times, coping with the increasing demand from worldwide Customers for reliability and rapidity, also providing advice on what installation type best suits the needs of your Data Center.



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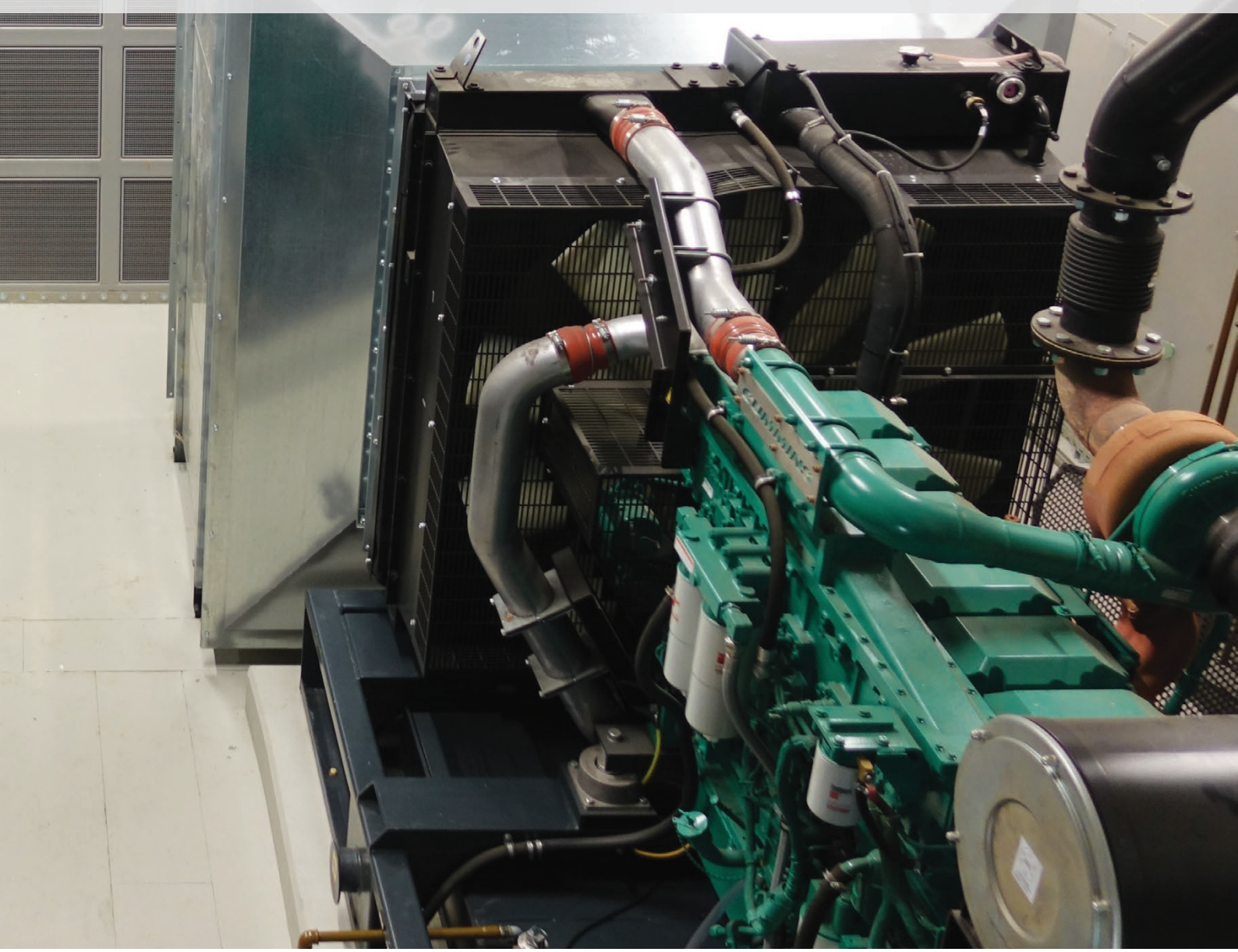
Reliable solutions for maximum uptime and resiliency

Data demand and use is increasing at global level and Data Centers must secure data and processes by guaranteeing a constant source of quality power. As power cutoffs can result in huge and costly losses for Data Center Customers, it is vital that the local electrical network infrastructure that provides the Data Center services is both competent, reliable and trustworthy.

Enterprises must ensure that the service provider has all-encompassing backup power competencies that keep the services running even during disruptions. This is why backup power is crucial in overall Data Center design: the larger the business and Data Center operations, the more likely an investment in a power infrastructure with more resiliency is needed.

Within this scenario, the proven field experience of Ausonia in designing, manufacturing, supplying, installing and maintaining power generators, allows the Customers to rely on a professional Energy Partner, who can assist them in developing and tailoring the power systems configuration to comply with the power availability requirements.



Project-based power solutions

Based on the Tier level rating required by a Data Center facility, Ausonia performs the relevant engineering study to design the power systems configuration accordingly, also offering DCP rated power systems to meet Tier III and Tier IV level ratings requirements.

What is DCP rating? Data Center Power (DCP) ratings refer to diesel gensets designed for unlimited hours of operation, with no restrictions on average variable load factor. DCP ratings will be applicable for any Data Center installation and have been reviewed and approved by the Uptime Institute as mandatory requirements to get Tier III and Tier IV level certifications for the Data Center facility.

Twin gensets in stackable configuration
High degree of sound insulation
Remote cooling systems

Redundant starting and refueling system
Long autonomy belly tank
No-Break energy storage systems

Modular parallel configurations
Remote monitoring system
Cloud based data storage

Power distribution boards
Low/Medium voltage sections
Automatic transfer switches

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Tier level ratings by Uptime Institute

In 1995, the Uptime Institute developed a four-tiered classification system for Data Center reliability.
In order to determine the Tier level of a Data Center, one must look at multiple factors: power, cooling, monitoring, security and serviceability. Moreover, in order to determine the Tier level that best suits your operation, you first must determine how much downtime you can afford.

TIER IV **99.995%** availability **25 minutes** downtime

2 indipendent utility paths
Fully redundant (2N + 1)
Able to sustain 96 hours power outage

TIER III **99.982%** availability **1,6 hours** downtime

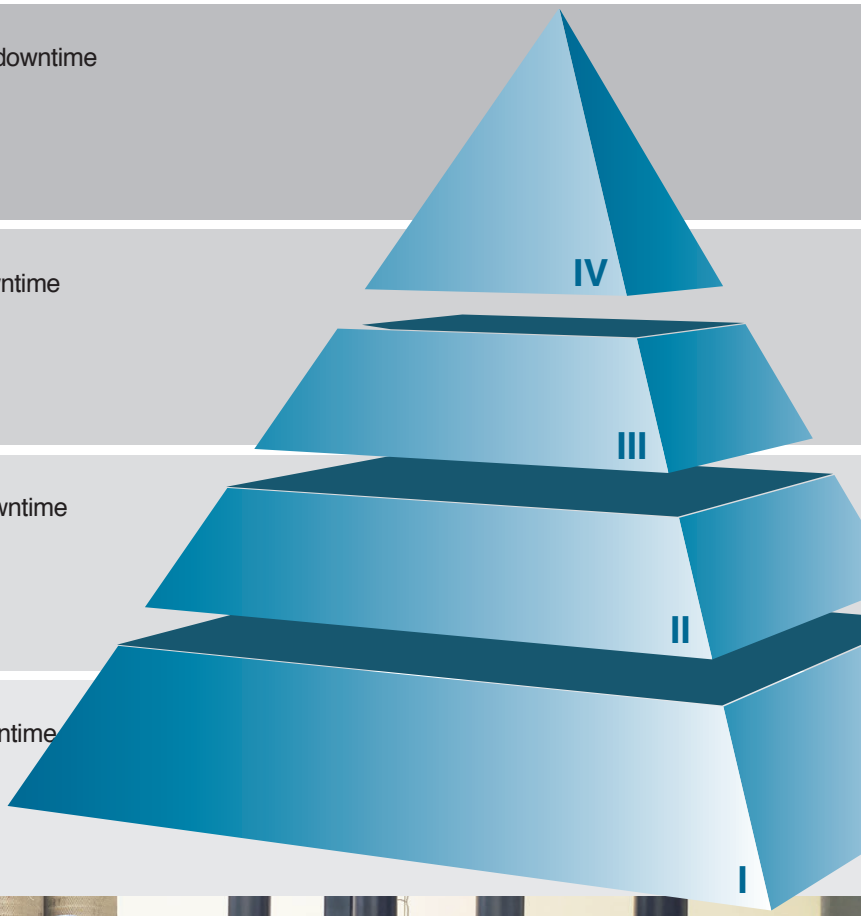
Multiple power and cooling paths
Fault tolerant (N + 1)
Able to sustain 72 hours power outage

TIER II **99.749%** availability **22,7 hours** downtime

Single path of power and cooling
Some redundancy in power and cooling

TIER I **99.671%** availability **28,8 hours** downtime

Single path of power and cooling
No redundant components



Turn-key power solutions, from concept to completion

From standard solutions to specific design, Ausonia supports its Customers with a goal-oriented approach, from project planning to execution to post-installation services, assuring great flexibility in manufacturing and reliability of the power system performances.

PROJECT SERVICES

CONSULTING ON EQUIPMENT AND SPECIFICATIONS

SYSTEM DESIGN, ENGINEERING AND BUDGETING

EQUIPMENT PRODUCTION, DELIVERY AND INSTALLATION

UPTIME INSTITUTE CERTIFICATION SUPPORT

ON-SITE SERVICES

TESTING & COMMISSIONING ACTIVITIES

FIELD TECHNOLOGY MAINTENANCE PROGRAMS

EMERGENCY SUPPORT 24/7

NOISE AND EXHAUST EMISSIONS COMPLIANCY ASSESSMENT

TRAINING SERVICES

PRODUCT OVERVIEW AND OPERATION

POWER SYSTEMS MAINTENANCE

TROUBLESHOOTING TIPS

TECHNICAL DOCUMENTATION

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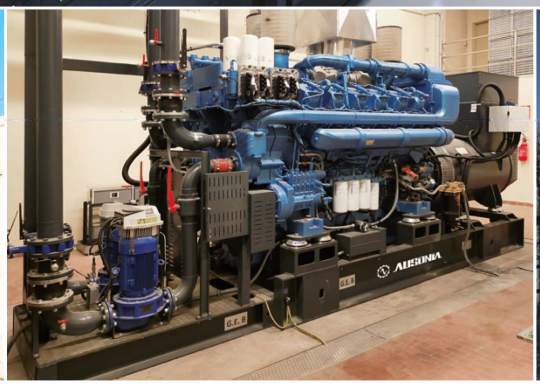

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