

Environmental Compliance for Revenue Producing Generators

Easily Integrate SCR Technology

As the world shifts towards a greener environment, regulators are increasingly requiring reciprocating internal combustion engines to be equipped with an emission control system. In response to the demand, SCR technology has become much more reliable and economical.

The ecoCUBE® has been proven and tested with hundreds of peaker plants, CHP and prime power installations. SPI's experience has resulted in decreased size and cost while optimizing control, performance, project management and support.

The adaptable design of the ecoCUBE® will attain compliance for any site. Choose between floor, ceiling, roof, vertical or side mounted configurations with various inlet/out configurations. Ideal for Hospitals, Data Centers, Power Generation facilities, Water Treatment plants, Commercial High Rises, Production sites and other installations. Contact one of our sales engineers for more information.



20MW Peaker plant equipped with vertical ecoCUBE® SCR systems

Low Pressure Drop and Heat Loss for CHP

Recover maximum thermal energy with the use of our Low Pressure Drop and Low Heat Loss reactors. All our reactors are factory insulated with 3" mineral wool and metal cladding. They are also designed for minimum pressure drop as low as 3" H₂O. This makes it ideal for CHP applications which contain downstream heat recovery.

Features SPI's junction box to pre-terminate all sensor wiring in one location. Minimizes site installation requirements and complications. All our ecoCUBE® units come with commissioning included.



One of twenty enclosure mounted ecoCUBE® installations for Peak Shaving with major national retailer

Protect your Greenhouse Crops during CO₂ Augmentation

The ecoCUBE® SCR opens the door for safely using CO₂ augmentation with combustion engines. Engine exhaust contains NO_x and unburned hydrocarbons (HC) which are highly harmful to plants. Not only will the ecoCUBE® precisely control the NO_x and HC emissions but it will oxidize CO to CO₂ and further increase the CO₂ production for greenhouses.

ecoCUBE® for greenhouses

- Increase production by up to 40%
- Use less fuel to produce more CO₂
- Use exhaust temperature to heat water/crops
- Substantially lower CO₂ costs
- Reduce environmental footprint



The Safety Power Advantage

Industry Leading Support

All of Safety Power's systems are equipped with remote monitoring capability. Our proprietary Global View software continuously monitors, displays and archives data that can be viewed in any web browser with proper credentials.

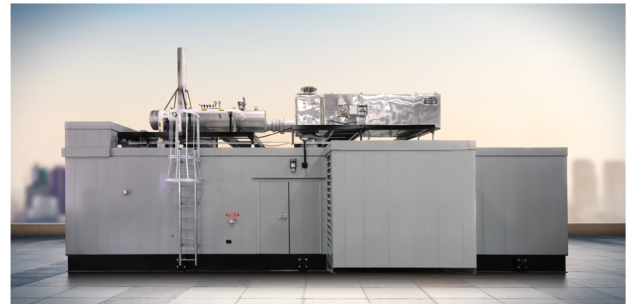
With a majority of components stocked at our facility, our response time is the quickest in the industry. In most cases, a technician visit is circumvented by diagnosing and fixing the fault remotely. Ultimately, saving you money and minimizing downtime.



Flexible Design, Experience & Quality

Years of R&D and project experience has led to a highly optimized product line that ensures hassle free regulatory compliance. Our ecoCUBE® and ecoTUBE™ products feature a compact modular design with SCR, mixing duct, Oxidation Catalyst and integrated silencing all in one unit. Our SCR's have successfully achieved reduction to sub 5 ppmvd NOx and 2 ppmvd NH₃.

This highlights the exceptional performance of Safety Power's design.



CHP installation with sub 5 ppmvd NOx and 2 ppmvd NH₃

SPI Gas Extraction Analyzer

Keeping the greenhouse environment under precise control is of prime importance to horticultural health. With a true closed loop control system, featuring two solid state NOx sensors for downstream/ upstream control, the ecoCUBE® is the industry's leader.

Our Gas Extraction Analyzer is commonly used in greenhouse applications. It will continuously monitor gas quality entering the greenhouse and work together with our patented control system to protect your crops and ensure safe operation.



Learn about how our emission control systems work, emission regulations and much more by watching our educational videos at:

www.safetypower.ca/video

About Us

Safety Power is the global innovator in emissions control for large scale diesel and natural gas engines. The company manufactures the FOx®, ecoCUBE® and ecoTUBE™ range of products that reduce NOx, CO and Hydrocarbon emissions on engines from 100kW to 20,000 kW and beyond.

For more information please contact info@safetypower.ca

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