

NOVORBIS

Innovation ForHealthyBreathing

α Diesels

Powering Solutions
Since 1996

Retrofit Emission Control Device (RECD)



Speak us:

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Innovation for DG set owner

Government Norms

According to NGT Order No. 681/2018 and CPCB Memorandum No. B-31013/78/2020/UPC-I dated 18/11/2020, it is mandatory to retrofit all diesel generator sets in use with RECD (Retro-fit Emission Control Device) that reduces PM (Particulate Matter) emission by 70%. The Power ranges under the norm cover all Diesel generators up to 800kW gross power.

Why to act now ?



Temperature inversion, and global climate changes due to the emissions of greenhouse gases to the atmosphere



Pollutants are directly associated with the onset and progression of lung and heart diseases.



Air pollution causes acid rain which leads to serious environmental damage.

Novorbis Carbonfree is one of the patented filterless diesel retrofit emission control device. It's also an economical and efficient way to meet new EPA mandates and the National Green Tribunal order O.A 681/2018. Specially designed for diesel Genset customers, the best way to filter out pollutants and harmful particulates. It recovers up to 85% of diesel soot, improving air quality and reducing your costs as it has 10 years of lifespan. We will be the game-changer you want to see in the world!

CARBONFREE - RECD

Carbonfree provides a filter-less solution as a retrofit emission control system which captures up to 85% of particulate matter from the diesel Genset and reduces harmful emissions through the innovation of EPSP filterless technology we are able to purify the air without exerting back pressure over the Genset. The product automatically regenerates itself through the water mechanism and the whole process is controlled with the help of the OBD system which checks the operational status of the diesel generator, and RECD machine for smooth functioning. Technology for a better tomorrow.

Let's Evolve together in a sustainable way.



Lifespan
20 Years



Filter-less
EPSP-based



No Choking



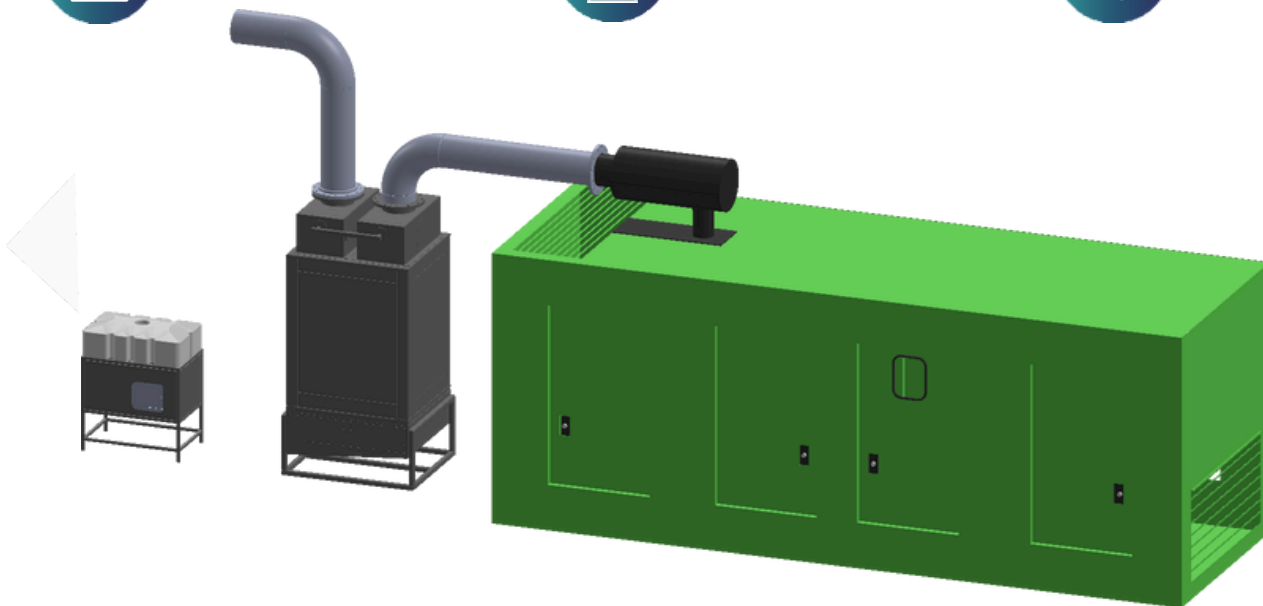
Cost-Effective



Long life for the
diesel generator



No-Maintenance
No-Manual Cleaning



Technology	PM Capture Efficiency	Initial Cost	Operational Cost	Prominent Failure Mode	Impact on Engine	Ease of maintenance	Robustness to exhaust challenges
CarbonFree RECD Machine	80%-90%	Moderate	Negligible	None	Negligible & control parameter	Easy Service	Yes
DOC+Partial Flow Filters or Partial Oxidation Catalyst (PFF/POC)	60-75%	Moderate to high	Moderate (additional fuel consumption due to backpressure)	Soot load & thermal event	Variable backpressure	Not serviceable	No
DOC + Diesel Particulate Filter (DPF)	>90%	High	High (additional fuel consumption due to backpressure)	Soot load & thermal event	Variable backpressure	Periodic Filter Cleaning (Ash/Soot Removal)	No
Water/Solvent Based Exhaust Scrubbers Solution	NA	High	Moderate to high (wash fluid and chemical replenishment)	Fouling and engine hydro-lock	Backpressure due to HE	Complex and frequent service	Probably Yes
Diesel Oxidation Catalyst (DOC)	20-40%	Low	Negligible	Face plugging	Negligible	Not serviceable	No

Award & Recognition



National innovation challenge by UNDP and AIM NITI Aayog won by Novorbis

Media Coverage



Supported by



Official Vendor



Also available on Startup Category for Diesel Generators at GeM Portal

Tested for performance by ARAI Pune over ISO-81785 mode D2 cycle as directed by State Pollution Control Boards



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