GreenDrive

SGT HydroEdge
Decarbonise Profitably

With Patented Controlled Hydrogen Fuel Assist Technology

THE NEXT GENERATION

HYDROGEN FUEL ASSIST

FOR DIESEL VEHICLES

Savings where it counts.
Cleaner where it matters.

DIESEL SAVINGS

5–18%

fuel savings*

UP TO

80%

PM reduction



For trucks, buses, earthmovers & construction vehicles

Tested on real engines for 3+ years, including R&D testing with ARAI.
Works with BS-II to BS-VI and Euro II to Euro VI engines. · Indian Patent No. 582824

* Typical range from field tests. Actual savings vary with vehicle, load and operating conditions. Representative visual.

WHY FLEET OWNERS NEED MORE THAN EXHAUST AFTER-TREATMENT



Diesel fleets face rising pressure from emission norms, fuel costs and customers' sustainability goals. Meeting norms is no longer enough: profitability and sustainability must go hand in hand.

- TIGHTER NORMS
- RISING DIESEL COST
- ESG & SUSTAINABILITY
- CARBON REPORTING

> **You need a solution that keeps you compliant and also saves fuel, cuts carbon and protects the engine. That's where GreenDrive makes the difference.**

EXHAUST AFTER-TREATMENT vs GREENDRIVE

EXHAUST AFTER-TREATMENT

(DPF / SCR / DOC)

- Treats pollutants after combustion.
- Adds exhaust back-pressure that can affect engine efficiency.
- Needs regeneration, cleaning and maintenance to stay effective.
- Does not reduce fuel consumption.
- Does not improve combustion efficiency.
- No built-in fleet data or carbon reporting.

GreenDrive

- Improves combustion before pollutants form.
- Saves fuel: typically 5–18%*.
- Reduces PM, NOx, CO and visible smoke.
- Lowers CO_2 in proportion to the fuel saved.
- Works alongside existing after-treatment, BS-II to BS-VI.
- Fully IoT-connected: GreenVision data, alerts and carbon reports.

GREENDRIVE IMPROVES COMBUSTION — LOWERING EMISSIONS, FUEL USE & CO_2

CLEANER FLEETS THAT PAY YOU BACK

* Fuel savings typically range between 5–18%. Actual savings depend on vehicle, engine condition, maintenance, load, route, driving pattern and operating conditions.

SAFE BY DESIGN

No gas is stored: GreenDrive makes small, low-pressure volumes only while the engine runs and stops the moment the ignition is off. SGT OS checks pressure, temperature, current, battery and water level every second and halts production if anything is out of range.

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ONE COMPACT SYSTEM.

MULTIPLE BUSINESS BENEFITS.

GreenDrive™ is engineered to deliver savings, cleaner running and sustainability in one intelligent, vehicle-grade solution.

BS & EURO COMPATIBLE

ONLY INPUT: DM WATER ALMOST FREE TO OPERATE

FUEL SAVINGS



COMPLETE TELEMATICS & REPORTING VIA GREENVISION

CARBON REDUCTION

COMPACT — FITS ON THE FRAME

INSTALLED IN A FEW HOURS

GreenDrive One · Neo · Pro
From small commercial vehicles to earthmovers

REMOTE MONITORING & SUPPORT

VEHICLE-GRADE RELIABILITY

CO_2 REPORTING

INCREASED UPTIME
Real-time alerts and predictive service keep vehicles running.

LOWER RUNNING COST
Less diesel per km. The only input is DM water from time to time.

HIGHER EFFICIENCY
More energy from every litre, across the load range.

SUSTAINABLE FUTURE
Lower CO_2 and verified carbon savings through GreenVision MRV.

BUILT FOR TRUST
Patented, ARAI R&D-tested, made in India.

TOGETHER, LET'S CREATE A CLEANER, MORE EFFICIENT AND PROFITABLE TOMORROW.

GREENDRIVE WORKS ACROSS LOADS AND ROUTES.
IMPROVES COMBUSTION. SAVES FUEL. CUTS CO_2.

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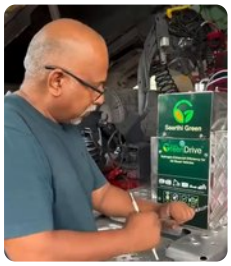
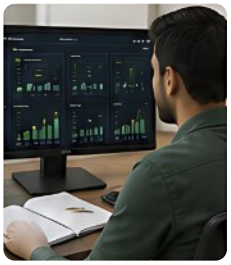
YOUR GREENDRIVE JOURNEY
PARTNERING FOR PERFORMANCE

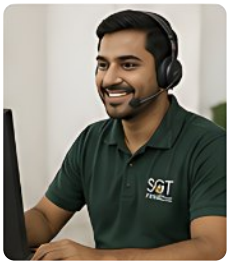
From assessment to continuous optimisation, SGT HydroEdge is with you at every step to ensure measurable results and long-term value.

FUEL SAVINGS 5–18%*	PM REDUCTION UP TO 80%	CO_2 REDUCTION WITH FUEL SAVED	LOWER SMOKE	LOWER CO, HC & NOx	IMPROVED ENGINE LIFE

1. ASSESSMENT
2. RECOMMENDATION
3. INSTALLATION
4. PERFORMANCE REVIEW
5. GREENVISION MONITORING
6. CONTINUOUS SUPPORT





OUR COMMITMENT TO YOU

Reliable Technology | Expert Support | Measurable Results | Sustainable Future

YOUR AUTHORISED GREENDRIVE DEALER / PARTNER

Dealer stamp / card

Dealer Company Name : _____

Address _____

Phone _____

Email _____

Website _____

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CERTIFIED ISO 9001:2015 COMPANY

PATENTED

INTELLECTUAL PROPERTY INDIA

SGT HydroEdge
Decarbonise Profitably
Emission & Fuel Reduction Solutions

GreenDrive

SGT HydroEdge

Decarbonise Profitably

GreenDrive™ — Vehicle Retrofit Data Sheet

SGT HydroEdge · Retrofit for diesel vehicles and mobile machinery



	GreenDrive One	GreenDrive Neo	GreenDrive Pro
Typical vehicles	12 V commercial vehicles	Trucks & buses (24 V)	Earthmovers & construction
Engine size	Below 3.5 L	Above 3.5 L	Above 7 L
HHO gas output	0.2–0.6 LPM	0.2–0.8 LPM	0.5–1.4 LPM*
Power consumption	Up to 170 W	Up to 170 W	Up to 250 W
Vehicle electrical system	12 V DC	24 V DC	24 V DC
Water	DM water only	DM water only	DM water only
Water tank	5 L	5 L	5 L
Running per fill	60–100 h	60–100 h	60–100 h
Refill accessory	Auxiliary tank, from cab	Auxiliary tank, from cab	Auxiliary tank, from cab
Dimensions L×W×H	380 × 320 × 360 mm	380 × 320 × 360 mm	420 × 320 × 360 mm
Weight (empty / filled)	22 / 30 kg	22 / 30 kg	25 / 33 kg
Emission norms	BS-II to BS-VI · Euro II–VI	BS-II to BS-VI · Euro II–VI	BS-II to BS-VI · Euro II–VI
Connectivity	4G · GreenVision · BLE app	4G · GreenVision · BLE app	4G · GreenVision · BLE app
Warranty	1 year standard	1 year standard	1 year standard

IMPORTANT INSTRUCTIONS:

- Use DM (demineralised) water only. A built-in filter protects the system, but sustained use of non-DM water will damage it.
- An auxiliary water tank accessory lets the driver top up from inside the cabin.
- The unit mounts on the vehicle frame wherever convenient space exists: beside the fuel tank (most common), beside the battery or elsewhere.
- Model selection: GreenDrive One for 12 V vehicles; Neo and Pro for 24 V vehicles, by engine size. Power comes from the vehicle battery; the unit runs only with the ignition on.
- The 5 L tank lasts 60–100 hours of engine running (typically 1 L per 12–20 h) before a refill.
- * Conditions apply: gas output follows engine requirement (RPM and load) only when the vehicle's CAN interface is active with the system. Otherwise an optimal constant gas flow is set on the system.



GreenDrive™ — Technical Specifications, Installation & Service

SGT HydroEdge · Indian Patent No. 582824

Controlled Hydrogen Fuel Assist (CHFA™)
Retrofit for diesel vehicles

GENERAL TECHNICAL SPECIFICATIONS

Technology	Patented Controlled Hydrogen Fuel Assist (CHFA™)
Application	Diesel trucks, buses, light commercial vehicles, earthmovers and construction machines
Range	GreenDrive One · Neo · Pro
Gas generation	On-demand hydrogen-oxygen (HHO) from DM water
Gas storage	None — gas generated and consumed on demand
Engine interface	Gas introduced through the engine air-intake system
Engine modification	None required
Emission norms	BS-II to BS-VI · Euro II to Euro VI
Engine type	Naturally aspirated / turbocharged diesel engines*
Control system	SGT OS — varies hydrogen flow in real time with engine RPM and load*; otherwise an optimal constant flow is set
Safety checks	Pressure, temperature, excess current, low battery and water level, every second
System operation	Automatic start / stop linked to ignition
Data connectivity	4G IoT with GPS; GreenVision enabled*
On-site setup	SGT OS app over Bluetooth — no network needed
Data logging	Local and cloud operational data logging
Gas pressure	Low-pressure, on demand; no pressurised storage

SELECTION, INSTALLATION & SERVICE

Model selection	By engine size and application
Mounting	Anywhere convenient on the vehicle frame
Typical installation time	A few hours*
Engine modification	None required
Electrical connection	Vehicle battery (One: 12 V · Neo / Pro: 24 V), ignition signal and CAN data*
Water	DM water only, ~1 L per 12–20 h of running
Water tank	5 L — 60–100 h of engine running per fill
Refill	Optional auxiliary tank, filled from inside the cabin
Routine operation	Automatic; no driver intervention beyond refilling
Routine inspection	Water level, connections, hoses and electrical system
Preventive maintenance	At SGT-prescribed service intervals
Remote support	Diagnostics, alerts and performance reports through GreenVision
Service support	Through SGT HydroEdge and authorised dealer & service network
Warranty	1 year standard, subject to SGT warranty terms
Carbon reporting	GreenVision MRV layer for verified carbon savings
Relocation	Reinstallation carried out or authorised by SGT / service partner

* Depending on model / configuration; load-following gas flow needs an active CAN interface. Specifications are indicative and subject to change.

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Emission & Fuel Reduction Solutions