

Texas Commission on Environmental Quality

Texas Natural Gas Vehicle Grant Program

List of Eligible Natural Gas Vehicles and Engines

Purpose

To qualify under the Texas Natural Gas Vehicle Grant Program (TNGVGP), a vehicle or engine must be new and must meet one of the U.S. Environmental Protection Agency (EPA) standards for nitrogen oxides (NO_x) emissions listed below.

- Heavy-duty engines must be certified to the EPA standard of 0.2 grams per brake horsepower-hour (g/bhp-hr) of NO_x or better.
- Vehicles classified as medium-duty passenger vehicles, certified under the EPA's light-duty vehicle emissions standards, must be certified to the EPA Bin 5 or lower standard for light-duty vehicles of 0.07 grams per mile (g/mi) of NO_x or better.
- Complete heavy-duty natural gas vehicles, as well as chassis-certified incomplete heavy-duty natural gas vehicles, weighing 8,501 – 14,000 pounds (lb) gross vehicle weight rating (GVWR) must be certified to meet or exceed the EPA emissions standards for complete heavy-duty vehicles (0.2 g/mi of NO_x for vehicles 8,501 – 10,000 lb GVWR; 0.4 g/mi of NO_x for vehicles 10,001 – 14,000 lb GVWR).

This document lists engine family names for heavy-duty on-road vehicle engines and vehicle test group names for medium-duty passenger vehicles and chassis-certified heavy-duty vehicles for which the TCEQ has received a copy of the EPA Certificate of Conformity indicating that the engine or vehicle is certified to the required EPA NO_x emissions standard.

Inclusion on these lists **DOES NOT** mean that a project involving one of the vehicles or engines included on the list is eligible for a grant. Certification to the required EPA emissions standard is only one of a number of criteria that must be met in order for a project to be eligible.

How to Update the List

If a manufacturer or Participating Dealer has determined that a vehicle or engine not included on this list is certified to the required standard, the manufacturer or dealer should contact the TCEQ and provide a copy of the relevant EPA Certificate of Conformity. If the TCEQ confirms that the vehicle or engine is certified to the required NO_x emissions standard, the TCEQ will update the table with the applicable test group or engine family.

Although it is preferable that the certificate be received by TCEQ before an application for that vehicle or engine is submitted, the Participating Dealer may include a copy of the certificate with an application. The TCEQ may withhold processing the application until the documentation of the certified NO_x emissions has been reviewed and accepted.

Statement Regarding After-Market Vehicle Conversions

As further outlined in the Request for Grant Applications (RFGA), a natural gas vehicle purchased under the Replacement Project category must be new. Under this requirement, if a newly-manufactured vehicle must be converted from conventional fuel to natural gas, that conversion must occur as part of the purchase of the vehicle.

After-market conversions to natural gas of a vehicle already owned, leased, or otherwise commercially financed by the applicant may be considered under the Repower Project category. However, under this category, the EPA Certificate of Conformity for the conversion to natural gas must show that the converted vehicle is certified to a NO_x emissions standard or family emissions limit (FEL) that is at least 25% lower than the original vehicle. In addition, a vehicle being repowered must have been owned or leased for at least two years prior to submission of the application.

Based on these requirements, there may be few, if any, after-market conversion systems for medium-duty passenger vehicles that will qualify for funding under the Repower Project category. Participating Dealers should contact the TCEQ with any questions regarding the eligibility of systems to convert an existing vehicle to run on natural gas.

List A

Heavy-Duty Natural Gas On-Road Vehicle Engines Certificates of Conformity (0.2 g/bhp-hr of NO_x or better)

The following heavy-duty natural gas on-road vehicle engine families have been issued an EPA Certificate of Conformity indicating they are certified to the required emissions standard of 0.2 g/bhp-hr of NO_x or better.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

The TCEQ understands that, in some cases, by the time a purchase is completed, the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the TNGVGP Request for Grant Applications (RFGA) and contract documents for criteria and directions regarding this situation.

This list does not distinguish between engine families that may be available on new vehicles and an engine family that may be available for repower/conversion of an existing heavy-duty vehicle. Applicants and the Participating Dealer must ensure that a particular engine family is applicable to the type of activity being applied for.

Engine Model	Manufacturer	Engine Family Name/Code	Fuel Type	Displacement Liters (L)
V-10	BAF Technologies	EBAFE06.83NN	CNG	6.8 L
V-10	BAF Technologies	EBAFE06.89NN	CNG	6.8 L
V-10	BAF Technologies	FBAFE06.83NN	CNG	6.8 L
V-10	BAF Technologies	FBAFE06.89NN	CNG	6.8 L
30X, Y, W, and Z	Capstone Turbine Corporation	ECSTH0.31CNG	CNG	0.31 KG/S
65X, Y, W, and Z	Capstone Turbine Corporation	FCSTH0.51NGH	CNG	0.51 KG/S
30X, Y, W, and Z	Capstone Turbine Corporation	FCSTH0.31NGL	CNG	0.31 KG/S
65X, Y, W, and Z	Capstone Turbine Corporation	FCSTH0.51NGB	CNG	0.51 KG/S
ISX12 G	Cummins Inc.	ECEXH0729XBA	CNG/LNG	11.9 L
ISL G	Cummins Inc.	ECEXH0540LBF	CNG/LNG	8.9 L
ISL G	Cummins Inc.	ECEXH0540LBG	CNG/LNG	8.9 L
ISL G	Cummins Inc.	ECEXH0540LBH	CNG/LNG	8.9 L
ISX12 G	Cummins Inc.	FCEXH0729XBA	CNG/LNG	11.9 L
ISL G	Cummins Inc.	FCEXH0540LBF	CNG/LNG	8.9 L
ISL G	Cummins Inc.	FCEXH0540LBG	CNG/LNG	8.9 L
ISL G	Cummins Inc.	FCEXH0540LBH	CNG/LNG	8.9 L
ISX12 G	Cummins Inc.	FCEXH0729XBB	CNG/LNG	11.9 L
ISX12 G	Cummins Inc.	GCEXH0729XBA	CNG/LNG	11.9 L
ISX12 G	Cummins Inc.	GCEXH0729XBB	CNG/LNG	11.9 L
ISL G	Cummins Inc.	GCEXH0540LBH	CNG/LNG	8.9 L
ISL G	Cummins Inc.	GCEXH0540LBJ	CNG/LNG	8.9 L
ISL G	Cummins Inc.	GCEXH0540LBF	CNG/LNG	8.9 L
ISL G	Cummins Inc.	GCEXH0540LBI	CNG/LNG	8.9 L
ISL G	Cummins Inc.	GCEXH0540LBG	CNG/LNG	8.9 L
ISL G	Cummins Inc.	HCEXH0540LBK	CNG/LNG	8.9 L
ISB G	Cummins Inc.	HCEXH0408BBA	CNG/LNG	6.7 L
V-10	Greenkraft Inc.	EGKTE06.8FM1	CNG	6.8 L
V-8	Greenkraft Inc.	EGKTE06.0GM2	CNG	6.0 L
V-10	Greenkraft Inc.	FGKTE06.8FM1	CNG	6.8 L
V-8	Greenkraft Inc.	FGKTE06.0GM2	CNG	6.0 L
V-8	Greenkraft Inc.	FGKTE08.0GM8	CNG	8.0 L
V-8	Greenkraft Inc.	GGKTE06.0GM2	CNG	6.0 L
V-8	Greenkraft Inc.	GGKTE08.0GM8	CNG	8.0 L
E-Series	IMPCO Automotive	FZ9XE06.8DC2	CNG	6.8 L
E-Series	IMPCO Automotive	FZ9XE06.8DC4	CNG	6.8 L
E-Series	IMPCO Automotive	GZ9XE06.8DC2	CNG	6.8 L
6.0 DCNG	IMPCO Automotive	GZ9XE06.0DCA	CNG	6.0 L
F-650	IMPCO Automotive	GZ9XE06.8DC6	CNG	6.8 L
F-450/550	IMPCO Automotive	GZ9XE06.8DC3	CNG	6.8 L
6.0 DCNG	IMPCO Technologies	EZ9XE06.0DCA	CNG	6.0 L
E-Series	IMPCO Technologies	EZ9XE06.8DC2	CNG	6.8 L
6.0 DCNG	IMPCO Technologies	FZ9XE06.0DCA	CNG	6.0 L
F-Series	IMPCO Technologies	FZ9XE06.8DC3	CNG	6.8 L
L96 LC8	Landi Renzo USA	ELDRE06.0C10	CNG	6.0 L
6.8L	Landi Renzo USA	ELDRE06.8C10	CNG	6.8 L
6.8L	Landi Renzo USA	ELDRE06.8B10	CNG	6.8 L
L96 LC8	Landi Renzo USA	FLDRE06.0C10	CNG	6.0 L
6.8 L	Landi Renzo USA	FLDRE06.8C10	CNG	6.8 L
6.8 L	Landi Renzo USA	FLDRE06.8B10	CNG	6.8 L
6.0 L	Landi Renzo USA	FLDRE06.0C11	CNG	6.0 L
6.8 L	Landi Renzo USA	GLDRE06.8B10	CNG	6.8 L
6.8 L	Landi Renzo USA	GLDRE06.8C11	CNG	6.8 L
L96 LC8	Landi Renzo USA	GLDRE06.0C10	CNG	6.0 L
PSI CNG	Power Solutions International Inc.	FPSIE08.8CNG	CNG	8.8 L
PSI CNG	Power Solutions International Inc.	GPSIE06.0CNG	CNG	6.0 L
PSI CNG	Power Solutions International Inc.	GPSIE08.8CNG	CNG	8.8 L

List B
Medium-Duty Passenger Vehicles
Certificates of Conformity
(Bin 5: 0.07 g/mi of NO_x or better)

The following natural gas medium-duty passenger vehicle test groups have been issued a certificate of conformity meeting the required emissions standards of 0.07 g/mi of NO_x or better.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

The TCEQ understands that, in some cases, by the time a purchase is completed, the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the TNGVGP RFGA and contract documents for criteria and directions regarding this situation.

This list does not distinguish between test groups that may be available on new vehicles and a test group that may be available for repower/conversion of an existing vehicle. Applicants and the Participating Dealer must ensure that a particular test group is applicable to the type of activity being applied for.

Vehicle Model(s)	Manufacturer	Test Group Name/Code	Displacement
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List C

Chassis-Certified Heavy-Duty Vehicles

Certificates of Conformity

(0.2 g/mi of NO_x for vehicles 8,501 – 10,000 lb GVWR; 0.4 g/mi of NO_x for vehicles 10,001 – 14,000 lb GVWR)

The following heavy-duty natural gas vehicle test groups have been issued a certificate of conformity meeting the required emissions standards of 0.2 g/mi of NO_x or better for vehicles 8,501 – 10,000 GVWR or 0.4 g/mi of NO_x or better for vehicles 10,001 – 14,100 GVWR.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

The TCEQ understands that, in some cases, by the time a purchase is completed the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the TNGVGP RFGA and contract documents for criteria and directions regarding this situation.

This list does not distinguish between test groups that may be available on new vehicles and a test group that may be available for repower/conversion of an existing vehicle. Applicants and the Participating Dealer must ensure that a particular test group is applicable to the type of activity being applied for.

Vehicle Model(s)	Manufacturer	Test Group Name/Code	Displacement
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