

## INSTRUCTIONS FOR DETERMINING MAXIMUM GRANT AMOUNTS

Grantees will receive the lesser amount of either:

- The standardized grant amounts set by TCEQ in the Maximum Grant Amount Tables; or
- Ninety percent (90%) of the incremental cost (the eligible costs associated with the qualifying vehicle minus scrappage value).
  - TCEQ will use a scrappage value of \$1,000 for replacement projects and \$250 for repower projects to calculate grant awards.

Instructions are provided below for using the Maximum Grant Amount tables to determine the maximum grant amount available for a proposed project.

### **Step 1. Determine the Correct Maximum Grant Amount Table for your Project.**

The Maximum Grant Amount you may be eligible for is listed in the table that corresponds to the fuel type and the certification type of the vehicle/engine to be replaced. Maximum grant amounts are provided in the following tables:

**Table 1:** Replacement of an On-Road Heavy-Duty Diesel Engine-Certified Vehicle/Engine with an Alternative Fuel Engine-Certified Vehicle/Engine

**Table 2:** Replacement of an On-Road Heavy-Duty Gasoline Engine-Certified Vehicle/Engine with an Alternative Fuel Engine-Certified Vehicle/Engine

**Table 3:** Replacement of an On-Road Heavy-Duty Diesel Engine-Certified Vehicle/Engine with an Alternative Fuel Chassis-Certified Vehicle/Engine

**Table 4:** Replacement of a Heavy-Duty Gasoline Engine-Certified Vehicle/Engine with an Alternative Fuel Chassis-Certified Vehicle/Engine.

**Table 5:** Replacement of a New Chassis-Certified Vehicle/Engine with a New Chassis-Certified Vehicle/Engine.

### **Step 2. Determine the Gross-Vehicle Weight Rating (GVWR) of the Vehicle**

The GVWR is the total allowable or recommended vehicle weight, including the loaded weight of the vehicle, driver, passengers, and cargo. The rated weight is usually found on a label affixed to the inside of the door or other area of the vehicle and may also be listed on the vehicle title and registration documents.

If the vehicle is normally operated in combination with a trailer, such as an 18-wheel semi-tractor and trailer rig, use the Gross Combined Weight Rating (GCWR) of both the vehicle and the trailer. However, if a trailer is only attached occasionally, use the GVWR for the vehicle only. Check with the TCEQ staff if you are unsure as to what GVWR to use.

### **Step 3. Determine the Model Year of the Replacement Vehicle/Engine**

You must know the model year of your current vehicle and engine. If the original engine was replaced with a later model year engine, use the model year of the engine and not the year of the vehicle itself.

On-road heavy duty engines are certified by the U.S. Environmental Protection Agency (EPA) to meet federal nitrogen oxides (NO<sub>x</sub>) emission standards established by year. The standards are usually expressed in grams per brake horsepower hour (g/bhp-hr) of NO<sub>x</sub>. Normally, an engine will be certified to meet the emission standard applicable to the year in which the engine was manufactured. However, there are exceptions to this approach as listed below:

- For heavy-duty diesel vehicles and engines manufactured after 2002, the emission standards were phased in. Heavy-duty engines manufactured after 2002 may have been certified to a NO<sub>x</sub> emissions rate between 4.0 g/bhp-hr and 0.2 g/bhp-hr. For these 2003 and later model year heavy-duty engines, the applicant must verify the emissions rate to which the engine was certified. Use the Maximum Grant Amount tables to determine the grant amount that corresponds to the emission rate applicable to the certified emissions rate of that engine. If the exact emission rate is not listed on the table, use the next lowest rate listed on the table.
- For medium-duty vehicles with a model year of 2004 or later and certified under the light-duty vehicle standards, the applicant must verify the emissions rate to which the old vehicle and engine were certified. Use the Maximum Grant Amount tables to determine the grant amount that corresponds to the emission rate applicable to the certified emissions rate of that vehicle. If the exact emission rate is not listed on the table, use the next lowest rate listed on the table.

### **Step 4: Determine the Maximum Grant Amount**

Once you have selected the table applicable to the fuel type, vehicle/engine certification, and you have identified the weight category of your vehicle, find the column that applies to the emissions rate or manufacture year of the vehicle/engine being replaced along the top row of the table. Next, move down that column to the line corresponding to the type and GVWR of the vehicle being purchased. Note the maximum grant amount listed for that combination of old and replacement vehicle/engine.

Please contact the TCEQ if you have any questions regarding the certified emissions rate for your vehicle, by phone: 1-800-919-TERP (8377); or via email: [terp@tceq.texas.gov](mailto:terp@tceq.texas.gov). TERP staff are here to help.

## DRAFT MAXIMUM GRANT AMOUNT TABLES

**Table 1:** Replacement of an On-Road Heavy-Duty or Medium-Duty Diesel Engine-Certified Vehicle/Engine with an Alternative Fuel Engine-Certified Vehicle/Engine

Diesel Engine Vehicle		Model Year	Pre - 1989	1990	1991 - 1997	1998 - 2003	2004 - 2006	2007 +	2007 +	2007 +	2007 +	2007 +
Vehicle Type	GVWR	Emission Rate (g/bhp-hr)	10.7	6.0	5.0	4.0	2.375	2.375	2.0	1.5	1.0	0.5
HDDV2b	8,501-10,000	<b>Max Grant Amount</b>	\$74,470	\$49,138	\$40,279	\$31,866	\$18,196	\$18,196	\$15,041	\$10,835	\$6,628	\$2,422
HDDV3	10,001-14,000		\$142,465	\$55,839	\$46,191	\$36,544	\$20,867	\$20,867	\$17,249	\$12,425	\$7,601	\$2,778
HDDV4	14,001-16,000		\$189,953	\$88,747	\$72,428	\$56,911	\$32,496	\$32,496	\$26,862	\$19,350	\$11,838	\$4,326
HDDV5	16,001-19,500		\$189,953	\$98,276	\$78,833	\$61,199	\$34,945	\$34,945	\$28,886	\$20,808	\$12,730	\$4,652
HDDV6	19,501-26,000		\$207,221	\$117,336	\$96,078	\$75,622	\$43,180	\$43,180	\$35,694	\$25,712	\$15,730	\$5,748
HDDV7	26,001-33,000		\$235,822	\$142,948	\$118,743	\$93,942	\$53,641	\$53,641	\$44,341	\$31,941	\$5,921	\$2,164
HDDV8a	33,001-60,000		\$652,962	\$345,457	\$276,902	\$215,170	\$122,863	\$122,863	\$101,561	\$73,159	\$44,757	\$16,355
HDDV8b	> 60,000		\$679,944	\$381,194	\$304,494	\$236,220	\$134,882	\$134,882	\$111,497	\$80,316	\$49,135	\$17,955
HDDV8b Haul Truck	> 60,000		\$1,019,917	\$571,790	\$456,741	\$354,330	\$202,324	\$202,324	\$167,245	\$120,474	\$73,703	\$26,932
HDDBT			\$579,841	\$417,973	\$346,620	\$274,908	\$156,973	\$156,973	\$129,758	\$93,470	\$57,183	\$20,895
HDDBS			\$87,421	\$80,408	\$70,950	\$58,275	\$33,275	\$33,275	\$27,506	\$19,814	\$12,122	\$4,429

**Table 2:** Replacement of an On-Road Heavy-Duty or Medium-Duty Gasoline Engine-Certified Vehicle/Engine with an Alternative Fuel Engine-Certified Vehicle/Engine

Gasoline Engine Vehicle		Model Year	Pre - 1987	1988 - 1990	1991 - 1997	1998 - 2004	2005 - 2007
Vehicle Type	GVWR	Emission Rate (g/bhp-hr)	10.1	5.7	4.75	3.8	1.0
HDV2b	8,501-10,000	<b>Max Grant Amount</b>	\$73,792	\$49,516	\$40,591	\$32,116	\$7,137
HDV3	10,001-14,000		\$141,167	\$56,269	\$46,549	\$36,830	\$8,185
HDV4	14,001-16,000		\$188,222	\$89,430	\$72,990	\$57,357	\$12,746
HDV5	16,001-19,500		\$188,222	\$99,633	\$79,444	\$61,679	\$13,706
HDV6	19,501-26,000		\$203,194	\$118,239	\$96,823	\$76,214	\$16,937
HDBT			\$574,559	\$421,189	\$349,307	\$277,063	\$61,569
HDBS			\$86,625	\$80,727	\$71,500	\$58,732	\$13,052

**Table 3:** Replacement of an On-Road Heavy-Duty or Medium-Duty Diesel Engine-Certified Vehicle/Engine with an Alternative Fuel Chassis-Certified Vehicle/Engine

Diesel Engine Vehicle		Model Year	Pre - 1989	1990	1991 - 1997	1998 - 2003	2004 - 2006	2007 +	2007 +	2007 +	2007 +	2007 +	2007 +
Vehicle Type	GVWR	Emission Rate (g/bhp-hr)	10.7	6.0	5.0	4.0	2.375	2.375	2.0	1.5	1.0	0.5	0.2
MDPV	8,501-10,000	Max Grant Amount	\$75,403	\$50,366	\$41,490	\$33,078	\$19,407	\$19,407	\$16,252	\$12,046	\$7,840	\$3,633	\$1,110
HDDV2b	8,501-10,000		\$74,339	\$49,302	\$40,426	\$32,014	\$18,343	\$18,343	\$15,188	\$10,982	\$6,776	\$2,569	
HDDV3	10,001-14,000		\$142,072	\$54,611	\$44,964	\$35,316	\$19,639	\$19,639	\$16,021	\$11,197	\$6,374	\$1,550	

**Table 4:** Replacement of a Heavy-Duty Gasoline Engine-Certified Vehicle/Engine with an Alternative Fuel Chassis-Certified Vehicle/Engine.

Gasoline Engine Vehicle		Model Year	Pre - 1987	1988 - 1990	1991 - 1997	1998 - 2004	2005 - 2007	2008 +
Vehicle Type	GVWR	Emission Rate (g/bhp-hr)	10.0	5.7	4.75	3.8	1.0	0.2
MDPV	8,501-10,000	Max Grant Amount	\$74,725	\$50,744	\$41,802	\$33,327	\$8,348	\$1,211
HDDV2b	8,501-10,000		\$73,661	\$49,680	\$40,738	\$32,263	\$7,284	
HDDV3	10,001-14,000		\$140,774	\$55,041	\$45,322	\$35,603	\$6,957	

**Table 5:** Replacement of a Chassis-Certified Vehicle/Engine with a New Chassis-Certified Vehicle/Engine.

<b>Model Year</b>	<b>2005 - 2007</b>		
<b>Vehicle Type</b>	<b>MDPV</b>	<b>HD2b</b>	<b>HD3</b>
<b>GVWR</b>	<b>8,501 - 10,000</b>	<b>8,501 - 10,000</b>	<b>10,001 - 14,000</b>
<b>Max Grant Amount</b>	<b>\$6,793</b>	<b>\$5,729</b>	<b>\$4,911</b>