

# **California Air Resources Board**

## **Advanced Clean Trucks Credits Summary**

### **As of March 31, 2022**

The purpose of this report is to provide public disclosure of manufacturer annual vehicle sales data, credit balances, and credit transactions as required by the California Air Resources Board Advanced Clean Trucks (ACT) regulation (title 13, California Code of Regulations (CCR) section 1963.5). The ACT regulation is part of a holistic approach to accelerate a large-scale transition of zero-emission medium and heavy-duty vehicles. Manufacturers who certify chassis or complete vehicles with a gross vehicle weight rating (GVWR) greater than 8,500 lbs. are required to sell zero-emission vehicles (ZEV) as an increasing percentage of their annual California sales starting with the 2024 model year. Annual reporting began with the 2021 model year. The first report was due by March 31, 2022, and each successive annual report is due no later than 90 days following the end of each model year.

### **Annual Requirement for Manufacturers**

Any vehicle manufacturer that produced and delivered for sale more than 500 on-road medium- and heavy-duty vehicles with a GVWR over 8,500 lbs. into California is required to report annually. Manufacturers that annually produce and deliver for sale 500 or fewer medium- and heavy-duty vehicles into California may elect to voluntarily report to generate ZEV credits and near-zero emission vehicle (NZEV)<sup>1</sup> credits. A small number of manufacturers may earn, bank, and trade credits for ZEVs and NZEVs they produce and deliver for sale in California.

### **How are Credits and Deficits Earned?**

The vehicle manufacturer of record is the party that can earn credits and deficits. ZEV credits, NZEV credits, and deficits are earned when the vehicle produced and delivered for sale, and then reported as sold to the ultimate purchaser. Ultimate purchaser “means, with respect to any new motor vehicle or new motor vehicle engine, the first person who in good faith purchases a new motor vehicle or new motor engine for the purposes other than resale” (California Health and Safety Code section 39055.5).

### **Manufacturer Vehicle Sales and Credits**

Table 1 below displays the number of 2021 model year medium- and heavy-duty vehicles produced and delivered for sale in California and the number of 2021 model year ZEVs sold to the ultimate purchaser as of March 31, 2022. No NZEVs were produced and delivered into California as of this date.

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<sup>1</sup> NZEV is an on-road hybrid electric vehicle that has the capability to charge the battery from an off-vehicle conductive or inductive electric source and achieves minimum all-electric range.

Table 1 – 2021 Model Year Medium and Heavy-Duty Vehicle Sales

Manufacturer (Parent Company)	Total Number of Vehicles Produced and Delivered for Sale into California	Total Number of ZEVs Produced and Delivered for Sale into California	Total Number of ZEVs Sold to the Ultimate Purchaser
Blue Bird	153	101	94
BYD	93	93	93
Daimler	4,990	2	-
Ford	21,806	-	-
GM	19,883	-	-
GreenPower	41	41	41
Isuzu	2,475	-	-
Lightning eMotors	47	47	47
Lion Electric	36	36	36
Mercedes Benz Group	4,831	-	-
Navistar	2,573	5	5
Nissan	2,067	-	-
Paccar	6,918	4	-
Stellantis	19,204	-	-
Volvo	2,965	26	2
Totals	88,082	355	318

Table 2 below displays the projected ZEV and NZEV credits and the credits<sup>2</sup> earned for each manufacturer for their 2021 model year sales as of March 31, 2022. The term “projected credits” is used to identify the projected number of ZEV and NZEV credits that a manufacturer can earn from completing the sale of vehicles delivered for sale into California. Projected credits” do not count as credits earned by the manufacturer until the vehicles are actually sold to an ultimate purchaser in California. ZEV credits are equal to the value of the appropriate weight class modifier as described in Table A-2 of the ACT regulation (title 13, CCR section 1963.2).

<sup>2</sup> ZEV and NZEV credits projected and earned are weighted by vehicle class.

Table 2 - 2021 Model Year ACT Credits

Manufacturer (Parent Company)	Projected ZEV Credits	Earned ZEV Credits	Projected NZEV Credits	Earned NZEV Credits
Blue Bird	193.5	179.5	-	-
BYD	171.5	171.5	-	-
Daimler	3	-	-	-
Ford	-	-	-	-
GM	-	-	-	-
GreenPower	61	61	-	-
Isuzu	-	-	-	-
Lightning eMotors	41.8	41.8	-	-
Lion Electric	54	54	-	-
Mercedes Benz Group	-	-	-	-
Navistar	7.5	7.5	-	-
Nissan	-	-	-	-
Paccar	7.5	-	-	-
Stellantis	-	-	-	-
Volvo	65	5	-	-
Totals	604.8	520.3	-	-

## **Credit Balances**

Manufacturers are required to produce and sell medium- and heavy-duty ZEVs beginning with the 2024 vehicle model year consistent with the ZEV sales percentage schedule described in Table A-1 of the ACT regulation. However, manufacturers can generate early credits for ZEVs and NZEVs sold to the ultimate purchaser for vehicle model years 2021 – 2023. Since the 2021 vehicle model year was the first-year manufacturers could earn credits, the credit balances for each manufacturer are the same as the 2021 model year credits earned as shown in Table 1 above.

## **Credit Transfers**

Manufacturers have the option to transfer credits with other manufacturers, however no manufacturers have transferred or traded any credits at this time.

## **More Information can be found in the links below:**

- [ACT Regulation:](https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2019/act2019/fro2.pdf)  
(<https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2019/act2019/fro2.pdf>)
- [ACT Fact Sheet:](https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-trucks-fact-sheet)  
(<https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-trucks-fact-sheet>)
- [Manufacturer Reporting:](https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks/manufacturing-reporting)  
(<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks/manufacturing-reporting>)

## **Public Disclosure**

This information is subject to public disclosure as provided in the ACT Regulation. (title 13, CCR section 1963.5 (a)(3))

## **Contact Us**

For more information, please email [ACT Reporting Staff](mailto:actreporting@arb.ca.gov) (actreporting@arb.ca.gov).