

# Alternatively Powered Commercial Vehicles: Global Fuel Markets

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## Abstracts

### Report Scope

This report focuses on 10 major alternative fuels for commercial vehicles across North America; Latin America; Europe, the Middle East and Africa (EMEA); and the Asia-Pacific region -

Compressed natural gas (CNG).

Liquid natural gas (LNG).

Liquid petroleum gas (LPG), also known as Autogas.

Dimethyl ether (DME).

Renewable natural gas (Bio Methane).

Biodiesel.

Ethanol.

Methanol.

Hydrogen.

Hythane.

We have excluded the following fuel type categories because these fuels have a unique value in the global marketplace -

Electric (battery) vehicles.

Hybrid-electric battery and generator/internal combustion vehicles.

Fuel-cell powered electric vehicles.

We have also covered information for industry leaders as well as for follower in the company profile chapter, key developments, and competition landscape, and others. The impact of COVID-19 is also covered in the scope of this report.

All market values are in U.S. dollar (\$) millions and all are calculated as nominal value; 2020 is considered as the base year and 2021 as the projected year, with values forecasted from 2022 to 2026. The market values are forecasted based on projected growth in various industries.

This updated report includes the impact of COVID-19 on the consumption of alternative fuels for commercial vehicles. Although there is lack of data pertaining to consumption of alternative fuels for commercial vehicles in 2020, the passenger car segment was the hard hit compared to commercial vehicles. Furthermore, the prices of conventional fuels went high during the pandemic period, which indirectly pushed the sales of alternatively powered vehicles as well as consumption of alternative fuels.

## Report Includes

137 data tables and 27 additional tables

An up-to-date market analysis of the global market for alternative fuel powered commercial vehicles and their variants

Analyses of the global market trends, with data from 2020, estimates for 2021 and projections of compound annual growth rates (CAGRs) through 2026

Estimation of current market size and market forecast for alternative powered commercial vehicles, and corresponding market share analysis by type of vehicle, power source, and geographic region

Evaluation of the breakeven oil price points for each fuel for each region at which they produce a favorable payback for commercial vehicles

Highlights of the current and future commercial vehicle demand for each alternative fuel, each category of commercial vehicle and each global region from 2020 through 2026

In-depth information (facts and figures) concerning market drivers, restraints and other forces affecting the progress of this market

Identification of the key stakeholders in the market, including on-board alternative fuel components and system suppliers, engine original equipment manufacturers (OEMs), commercial vehicle OEMs, stationary alternative fuel support equipment suppliers, methanol producers, biofuel producers, public natural gas utility companies, storage and transportation companies, refining and marketing companies, exploration and production companies, integrated oil and gas companies, and oil and gas services companies

Descriptive company profiles of the leading industry players, including AB Volvo, Autocar Truck, Nissan Diesel, Mercedes Benz, Mitsubishi Fuso, Volvo Trucks Petronas Chemicals Group Berhad and Schlumberger

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AB VOLVO

CATERPILLAR INC.

CHINA FAW GROUP CO. LTD.

CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO. LTD. (SINOTRUK)

CHINA YUCHAI INTERNATIONAL LTD.

CUMMINS INC.

CUMMINS WESTPORT INC.

DAF TRUCKS N.V.

DAIMLER AG

DONGFENG (DFM)

FORD MOTOR CO.

HINDUJA GROUP LTD.

ISUZU MOTORS LTD.

IVECO S.P.A. (INDUSTRIAL VEHICLES CORP.)

MITSUBISHI FUSO TRUCK AND BUS CORP.

NAVISTAR INTERNATIONAL

SCANIA AB

TATA MOTORS LTD.

WEICHAI HOLDING GROUP CO., LTD.

### Onboard Component and System Suppliers

AGS AUTO GAS SYSTEMEN NV

ALLIED EQUIPMENT SOLUTIONS CORP.

AVL LIST GMBH

CAMPBELL-PARNELL PARNELL USA, INC.  
CNG ONE SOURCE INC.  
EDEN INNOVATIONS LTD.  
FREETRON  
FUEL SYSTEM SOLUTIONS  
GFI ALTERNATIVE FUEL SYSTEMS  
HEAGON AGILITY  
IMEGALPG SRL  
IMPCO TECHNOLOGIES  
LANDI RENZO S.P.A.  
LUXFER GAS CYLINDERS  
QUANTUM FUEL SYSTEMS LLC  
ROBERT BOSCH GMBH  
SPRINT GAS (AUST) PTY LTD  
STURMAN INDUSTRIES  
TA GAS TECHNOLOGY  
TARTARINI AUTO SRL  
TRANSONIC COMBUSTION INC.  
VIALLE AUTOGAS SYSTEMS BV  
Equipment for Fuel Storage and Refueling  
ANGI ENERGY SYSTEMS LLC  
CHART INDUSTRIES INC.  
CRYOSTAR  
DAIS GLOBAL LTD  
FL?SSIGGAS-ANLAGEN GMBH  
GARDNER DENVER  
GENERAL ELECTRIC  
LINDE GMBH  
NUMAK SRL  
OMNITEK ENGINEERING CORP.  
P.C. MCKENZIE CO.  
SCHANDL GMBH  
WESTERN SHELL CRYOGENIC EQUIPMENT CO.  
WESTMOR INDUSTRIES LLC  
Equipment for Small-Scale Production of Fuel  
CBI&I TECHNOLOGIES  
COMPACTGTL  
GAS TECHNOLOGIES LLC  
GENIFUEL CORP.



HALDOR TOPSOE A/S (HQ)  
HYGEAR  
INFRA TECHNOLOGY LLC  
MEMBRANE TECHNOLOGY AND RESEARCH INC.  
OBERON FUELS  
OXFORD CATALYSTS LTD.  
PRIMUS GREEN ENERGY  
VELOCYS INC.  
ZEACHEM INC.  
Commercial Vehicle OEMs  
AUTOCAR TRUCK  
CNHTC/SINOTRUK  
DAEWOO  
DAF TRUCKS N.V.  
DAIMLER TRUCKS NORTH AMERICA  
FAW  
FCA US LLC  
FORD MOTOR CO.  
FREIGHTLINER (DAIMLER TRUCKS NORTH AMERICA)  
GENERAL MOTORS CO.  
HINO MOTORS LTD.  
HYUNDAI  
ISUZU  
IVECO  
KENWORTH TRUCK CO.  
MACK TRUCKS (VOLVO TRUCKS NORTH AMERICA)  
MAN SE  
MAZ  
MERCEDES BENZ  
MITSUBISHI FUSO  
NAVISTAR INTERNATIONAL  
NISSAN DIESEL (UD NISSAN)  
OSHKOSH TRUCK  
PETERBILT  
RENAULT TRUCKS  
SANY HEAVY INDUSTRY CO LTD.  
SCANIA  
SINO TRUK (SINO HEAVY MACHINERY CO. LTD.)  
SPARTAN MOTORS

TEREX CORP.  
TOYOTA MOTOR CORP.  
VOLVO GROUP  
VOLVO TRUCKS NORTH AMERICA  
WESTERN STAR  
Public Utility Companies  
AGL RESOURCES INC.  
ATMOS ENERGY CORP.  
CHINA RESOURCES GAS GROUP LTD.  
CONEDISON SOLUTION  
DOMINION RESOURCES  
EMPRESA DE ENERGIA DE BEGOTAJ SA ESP  
ENAGIS SA  
GAIL (INDIA) LTD.  
GAS NATURAL SOG SA  
HONG KONG & CHINA GAS CO. LTD.  
KOREA GAS CORP.  
NATIONAL FUEL GAS CO.  
NATIONAL GRID PLC  
ORIGIN ENERGY LTD.  
PG&E CORP.  
PUBLIC SERVICES ENTERPRISE GROUP INC.  
SEMPRA ENERGY  
SNAM S.P.A.  
TOKYO GAS CO. LTD.  
UGI CORP.  
Storage and Transportation Companies  
ENTERPRISE PRODUCTS PARTNERS LP  
KINDER MORGAN INC.  
OAO AK TRANSEFT  
PLAINS ALL AMERICAN PIPELINE LP  
ROYAL VOPAK NV  
SPECTRA ENERGY CORP.  
TRANSCANADA CORP.  
Refining and Marketing Companies  
BHARAT PETROLEUM CORP. LTD.  
DELEK GROUP LTD.  
EMPRESAS COPEC SA  
ESSAR ENERGY PLC

FORMOSA PETROCHEMICAL CORP.  
HOLLYFRONTIER CORP.  
INDIAN OIL CORP. LIMITED  
JX HOLDINGS INC.  
MARATHON PETROLEUM CORP.  
NESTE OIL CORP.  
PHILLIPS  
POLSKI KONCERN NAFTOWY ORLEN SA  
RELIANCE INDUSTRIES LTD.  
TURKIYE PETROL RAFINERILERI A.S.  
VALERO ENERGY CORP.  
Methanol Producing Companies  
AMPCO (ATLANTIC METHANOL PRODUCTION CO.)  
BP PLC  
CARBON RECYCLING INTERNATIONAL  
CLARIANT INTERNATIONAL LTD.  
COOGEE CHEMICALS  
ECOFUEL S.P.A. (ENI GROUP)  
HELM AG  
LANXESS AG  
METAFRAX  
METHANEX  
METHANOL HOLDINGS LTD.  
MITSUBISHI GAS CHEMICAL  
MITSUI & CO.  
OCI N.V.  
OMAN METHANOL CO. LLC  
PETRONAS CHEMICALS GROUP BERHAD  
QATAR FUEL ADDITIVES CO. LTD.  
SABIC  
SALALAH METHANOL CO.  
SIPCHEM  
Ethanol Producing Companies  
ACTIVOS  
AGUA BONITA  
ACUCAR GUARANI  
ALTO ALEGRE  
ARCHER DANIELS MIDLAND  
A RHODIA NO BRASIL

BIG RIVER RESOURCES LLC  
BIOSEV  
BP BIOFUELS  
BUNGE LTD.  
CERRADINHOPAR  
COCAL ENERGIA RESPONSÁVEL  
COFCO  
COPERSUCAR S.A.  
ENERKEM  
FARM MONTE ALEGRE  
FERRARI-UNICA  
FLINT HILL RESOURCES  
GREEN PLAINS INC.  
GRANBIO-API  
GROUP ADECOAGRO'S  
PACIFIC ETHANOL HOLDING CO. LLC  
PEDRA AGROINDUSTRIAL S/A  
PITANGUEIRAS COOPERATIVE: COPERSUCAR  
POET BIOREFINING  
RAIZEN ENERGIA S.A.  
USINA A?UCAREIRA FURLAN S/A  
USINA COLOMBO S/A  
USINA ESTHER  
USINA GRANELLI  
USINA IPIRANGA CO-OP: COPERSUCAR  
USINA NARDINI  
VALERO RENEWABLE FUELS  
VERBIO ETHANOL SCHWEDT GMBH & CO. KG  
Biodiesel Producing Companies  
ACCIONA SA  
ADM HAMBURG AG  
AGROINVEST S.A.  
AMBROSIA OILS LTD.  
AMYRIS  
ARCHER DANIELS MIDLAND  
ARGENT ENERGY  
ASTRA BIOPLANT  
BIOCOM ENERGIA S.L  
BIO-OILS ENERGY, S.L.

BIOPETROL INDUSTRIES AG  
BIORO NV  
CARGILL GMBH  
CENTRE OUEST C?REALES  
DAKA BIODIESEL  
DELTA BIOFUELS  
DIAMOND GREEN DIESEL LLC  
ECO FOX S.R.L.  
ECOMOTION GMBH  
ECOMOTION BIODIESEL S.A.  
ELIN BIOFUELS S.A.  
EXPUR  
FEDIOL  
GF ENERGY  
GREEN BIOFUELS IRELAND LTD  
GREEN EARTH FUELS OF HOUSTON LLC  
HOOFDZETEL ELECTRAWINDS NV  
INEOS CHAMPLOR SAS  
ITAL BI OIL S.R.L  
MANNHEIM BIO FUEL GMBH  
NESTE RENEWABLE FUELS OY  
NORD ESTER  
NOVAOL ITALY  
OLEON  
OLLECO  
PERSTORP  
PETROTEC GMBH  
PREOL A.S.  
PRIO  
RAPID OIL INDUSTRY CO. LTD.  
RBF PORT NECHES LLC  
REG NEWTON LLC  
RIX BIODIESEL LTD.  
TORREJANA  
VERBIO DIESEL BITTERFELD GMBH & CO. KG  
VERBAND DEUTSCHER BIODIESELHERSTELLER E.V.  
Exploration and Production Companies  
ANADARKO PETROLEUM CORP.  
APACHE CORP.

CAIRN INDIA LTD.  
CANADIAN NATURAL RESOURCES LTD.  
CHESAPEAKE ENERGY CORP.  
CNOOC LTD.  
CONOCOPHILLIPS  
CONTINENTAL RESOURCES INC.  
EOG RESOURCES INC.  
INPEX CORP.  
JSC KAZMUNAIGAS EXPLORATION PRODUCTION  
JSOC BASHNEFT  
MARATHON OIL CORP.  
MURPHY OIL CORP.  
NOBLE ENERGY INC.  
OAO NOVATEK  
OAO TATNEFT  
OIL & NATURAL GAS CORP. LTD.  
TULLOW OIL PLC  
WOODSIDE PETROLEUM LTD.  
Integrated Oil and Gas Companies  
BG GROUP PLC  
BP PLC  
CHEVRON CORP.  
CHINA NATIONAL PETROLEUM  
CHINA PETROLEUM & CHEMICAL CORP. (SINOPEC)  
ECOPETROL SA  
ENI SPA  
EXXON MOBIL CORP.  
OCCIDENTAL OIL AND GAS CORP.  
OJSC GAZPROM  
OJSC LUKOIL CO.  
OJSC ROSNEFT OIL CO.  
PETROCHINA CO. LTD.  
PETROLEO BRASILEIRO SA-PETROBRAS  
PTT GLOBAL CHEMICAL PUBLIC CO. LTD.  
ROYAL DUTCH SHELL PLC  
STATOIL ASA  
SUNCOR ENERGY INC.  
TOTAL SA  
YPF SA

Oil and Gas Services Companies  
BAKER HUGHES  
CHINA OILFIELD SERVICES LTD.  
FLUOR  
HALLIBURTON  
PETROFAC  
SAIPEM SPA (A SUBSIDIARY OF ENI)  
SCHLUMBERGER  
TRANSOCEAN  
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