

CNG & LPG Vehicle Market by Vehicle Body Type (Passenger Cars, Three-wheelers & Commercial Vehicles) Fuel Type (CNG & LPG), By Kit type (Venturi & Sequential), By Fitting (OE & Aftermarket), by Engine System Type and by Region - Global Forecast to 2026

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Abstracts

The global electric vehicle charging station market size is projected to reach 4,389 thousand units sales by 2026, from an estimated 2,135 thousand units in 2021, at a CAGR of 15.5%. Governments are supporting CNG and LPG vehicles through subsidies & tax rebates for using low emission vehicles and working in collaboration with such OEM's to speed up growth of their countries.

Increased demand for efficient and low emission vehicles along with government support will boost the CNG and LPG vehicle market. Consumers from developing countries are already feeling the heat of the increasing cost of petrol. CNG and LPG vehicles use can reduce the operating cost of these vehicles. To make the CNG and LPG vehicle market grow, a continued support from the government will be needed along with the growing numbers of bi-fuel and dual fuel vehicle users and reduced initial cost of adding CNG and LPG options for the vehicles.

However, COVID-19 pandemic is expected to have a significant impact on the CNG and LPG vehicle market. Both the production and sales of CNG and LPG vehicles had come to a halt in Q1 and Q2 of 2020 across the globe as the whole ecosystem had been disrupted. However, in the next two quarters, the sale of CNG and LPG vehicles had been growing. OEMs had to wait until lockdowns were lifted to resume production, which affected their business. Post the pandemic, the demand for CNG and LPG

vehicles might increase, as people are getting increasingly conscious for reducing emissions from vehicles around the world.

“The Passenger vehicle Segment is expected to be the largest market in the vehicle body segment in the forecast.”

Passenger cars are motor vehicles primarily used to transport passengers and have up to 9 seating capacity, including the driver. Some major types of passenger vehicles include sedan, hatchback, MPV/minivan, SUV/4X4, CUV/crossover, pickup, coupe, convertible, and station wagon. Many OEMs have been developing CNG and LPG fuel passenger cars over the years. Major manufacturers in this segment include Suzuki Motor Corporation, Honda Motor Company, Hyundai Group, Volkswagen AG, and Ford Motor Company. Governments around the world have been encouraging the use of CNG and LPG as low emission vehicles for passenger vehicles.

“Heavy-duty segment is expected to be the fastest growing in the vehicle type segment during the forecast period.”

The sales of heavy-duty CNG and LPG vehicles are projected to significantly increase during the forecast period due to the trend of commercial vehicles worldwide moving towards the usage of low emission fuels. This projected increase is also attributed to many countries around the world adopting new regulations to lower emissions on a large scale. These countries have encouraged the growth of CNG and LPG fuels especially in the heavy duty vehicles segment where electric vehicles are less of a competition to CNG and LPG vehicles market.

“Sequential Kit segment is expected to be fastest growing in the Kit segment in the forecast period.”

The sequential kit is a much better option for vehicles. In this type of kit, the alternative fuel flow is controlled by injectors and directly sent into the intake manifold of the petrol injectors. Gas flow is monitored and fixed electronically by a separate ECU. Sequential engines, however, can only be installed on vehicles that have electronic fuel injection systems. Sequential injection systems offer better mileage and higher performance than venture kits. However, sequential kits perform best with high compression engines only.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in this market.

By Company Type: Tier I - 52%, Tier II - 12%, and OEMs - 36%

By Designation: C Level Executives - 23%, Directors - 47%, and Others - 30%

By Region: North America - 33%, Europe - 31%, Asia Pacific - 28% and Rest of the World – 8%

The CNG and LPG vehicle market comprises major companies such as Suzuki Motor Corporation (Japan), Honda Motor Company (Japan), Hyundai Motor Group (South Korea), Volkswagen AG (Germany), Ford Motor Company (US).

Research Coverage:

The market study covers the electric vehicle charging station market size and future growth potential across different segments like Fuel Type, Vehicle Type, Vehicle Body Type, Engine System Type, Intake System Type, Kit Type, Fitting Type and Region.

The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants in this market with information on the closest approximations of revenue numbers for the overall CNG and LPG Vehicle market and its subsegments.

This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.

The report also helps stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITIONS

1.3 INCLUSIONS & EXCLUSIONS

TABLE 1 INCLUSIONS & EXCLUSIONS FOR CNG AND LPG VEHICLE MARKET

1.4 MARKET SCOPE

FIGURE 1 CNG AND LPG VEHICLE MARKET SEGMENTATION

1.4.1 YEARS CONSIDERED FOR THE STUDY

1.5 PACKAGE SIZE

1.6 LIMITATIONS

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 CNG AND LPG VEHICLE MARKET: RESEARCH DESIGN

FIGURE 3 RESEARCH METHODOLOGY MODEL

2.2 SECONDARY DATA

2.2.1 KEY SECONDARY SOURCES

2.2.2 KEY DATA FROM SECONDARY SOURCES

2.3 PRIMARY DATA

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS

2.3.1 SAMPLING TECHNIQUES & DATA COLLECTION METHODS

2.3.2 PRIMARY PARTICIPANTS

2.4 MARKET ESTIMATION METHODOLOGY

FIGURE 5 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING

2.5 MARKET SIZE ESTIMATION

2.5.1 BOTTOM-UP APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY FOR CNG AND LPG VEHICLE MARKET: BOTTOM-UP APPROACH

2.5.2 TOP-DOWN APPROACH

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY FOR CNG AND LPG VEHICLE MARKET: TOP-DOWN APPROACH

2.5.3 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDE

2.6 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 8 DATA TRIANGULATION

2.7 FACTOR ANALYSIS

2.8 RESEARCH ASSUMPTIONS & LIMITATIONS

3 EXECUTIVE SUMMARY

FIGURE 9 CNG AND LPG VEHICLE MARKET: MARKET DYNAMICS

FIGURE 10 CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (UNITS)

FIGURE 11 HEAVY-DUTY VEHICLE SEGMENT EXPECTED TO REGISTER HIGHER CAGR THAN LIGHT-DUTY VEHICLE SEGMENT DURING FORECAST PERIOD

FIGURE 12 COVID-19 IMPACT ON CNG AND LPG VEHICLE MARKET, 2018–2026

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN CNG AND LPG VEHICLE MARKET

FIGURE 13 INCREASING DEMAND FOR EFFICIENT & LOW EMISSION COMMUTING TO DRIVE MARKET

4.2 CNG AND LPG VEHICLE MARKET, BY REGION

FIGURE 14 ASIA OCEANIA ESTIMATED TO BE LARGEST MARKET IN 2021

4.3 CNG AND LPG VEHICLE MARKET, BY FUEL TYPE

FIGURE 15 LPG SEGMENT EXPECTED TO REGISTER HIGHER CAGR THAN CNG SEGMENT DURING FORECAST PERIOD

4.4 CNG AND LPG VEHICLE MARKET, BY VEHICLE BODY TYPE

FIGURE 16 COMMERCIAL VEHICLE SEGMENT EXPECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.5 CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE

FIGURE 17 HEAVY-DUTY VEHICLE SEGMENT EXPECTED TO REGISTER HIGHER CAGR THAN LIGHT-DUTY VEHICLE SEGMENT DURING FORECAST PERIOD

4.6 CNG AND LPG VEHICLE MARKET, BY FITTING TYPE

FIGURE 18 OEM/FACTORY-FITTED SEGMENT EXPECTED TO HIGHER CAGR THAN AFTERMARKET SEGMENT DURING FORECAST PERIOD

4.7 CNG AND LPG VEHICLE MARKET, BY KIT TYPE

FIGURE 19 SEQUENTIAL SEGMENT EXPECTED TO REGISTER HIGHER CAGR THAN VENTURI SEGMENT DURING FORECAST PERIOD

4.8 CNG AND LPG VEHICLE MARKET, BY ENGINE SYSTEM TYPE

FIGURE 20 DEDICATED FUEL SEGMENT EXPECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.9 CNG AND LPG VEHICLE MARKET, BY INTAKE SYSTEM TYPE

FIGURE 21 LIQUID PHASE DIRECT INJECTION (LPDI) SEGMENT EXPECTED TO

REGISTER HIGHEST CAGR DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 22 CNG AND LPG VEHICLE MARKET: MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Significant increase in vehicle production and sales globally

FIGURE 23 GLOBAL VEHICLE SALES, 2010–2019 (MILLION UNITS)

5.2.1.2 Lower operational cost compared to petroleum vehicles

TABLE 2 US: NATIONAL AVERAGE RETAIL FUEL PRICES OF CONVENTIONAL AND ALTERNATIVE FUELS

FIGURE 24 LNG & GAS PRICING

5.2.1.3 Rising petrol prices in the international market

TABLE 3 US: PETROL AVERAGE PRICING TREND OVER THE PAST FEW YEARS

5.2.2 RESTRAINTS

5.2.2.1 Higher maintenance and initial vehicle costs compared to petroleum vehicles

5.2.2.2 Less CNG and LPG fuel availability in many regions

TABLE 4 CNG, LPG, AND LNG STATIONS WORLDWIDE

5.2.3 OPPORTUNITIES

5.2.3.1 Rising concerns worldwide about vehicle emissions

FIGURE 25 WORLDWIDE EMISSIONS DATA, 2019

5.2.3.2 Availability of dual fuel options in vehicles

TABLE 5 TOP SELLING CNG OR LPG VEHICLE MODELS WORLDWIDE

5.2.4 CHALLENGES

5.2.4.1 Improper drainage causing cylinder damage

5.2.4.2 Improper protection of exhaust and other heat-producing components

TABLE 6 CNG AND LPG VEHICLE MARKET: IMPACT OF MARKET DYNAMICS

5.3 PORTER'S FIVE FORCES

FIGURE 26 PORTER'S FIVE FORCES: CNG AND LPG VEHICLE MARKET

5.3.1 THREAT OF SUBSTITUTES

5.3.2 THREAT OF NEW ENTRANTS

5.3.3 BARGAINING POWER OF BUYERS

5.3.4 BARGAINING POWER OF SUPPLIERS

5.3.5 RIVALRY AMONG EXISTING COMPETITORS

TABLE 7 CNG AND LPG VEHICLE MARKET: IMPACT OF PORTER'S 5 FORCES

5.4 CNG AND LPG VEHICLE MARKET ECOSYSTEM

FIGURE 27 CNG AND LPG VEHICLE MARKET: ECOSYSTEM ANALYSIS

TABLE 8 CNG AND LPG VEHICLE MARKET: ROLE OF COMPANIES IN ECOSYSTEM

5.5 SUPPLY CHAIN ANALYSIS

FIGURE 28 SUPPLY CHAIN ANALYSIS: CNG AND LPG VEHICLE MARKET

5.5.1 CNG AND LPG PROVIDERS

5.5.2 TIER I SUPPLIERS

5.5.3 OEMS

5.5.4 END USERS

5.6 AVERAGE SELLING PRICE TREND

TABLE 9 CNG AND LPG VEHICLE MARKET: PRICE RANGE ANALYSIS FOR CNG PASSENGER VEHICLE SEGMENT, 2020 (USD)

FIGURE 29 PRICING ANALYSIS OF PASSENGER VEHICLES ACROSS VARIOUS REGIONS, 2020 (USD)

5.7 TECHNOLOGY ANALYSIS

5.7.1 BI-FUEL VEHICLES

FIGURE 30 PARTS OF BI-FUEL VEHICLE TRANSMISSION SYSTEM

5.7.2 IOT IN ALTERNATIVE FUEL VEHICLES

5.7.3 3D PRINTING TECHNOLOGY

5.7.4 CONNECTED VEHICLES

5.8 PATENT ANALYSIS

5.9 CASE STUDY

5.9.1 A CASE STUDY ON USING NATURAL GAS FOR REGIONAL TRANSPORT TRUCKS

5.10 REGULATORY OVERVIEW

5.10.1 US

TABLE 10 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN US

5.10.2 CHINA

TABLE 11 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN CHINA

5.10.3 INDIA

TABLE 12 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN INDIA

5.10.4 JAPAN

TABLE 13 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN JAPAN

5.10.5 SOUTH KOREA

TABLE 14 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN SOUTH KOREA

5.10.6 IRAN

TABLE 15 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN IRAN

5.10.7 ITALY

TABLE 16 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN ITALY

5.10.8 GERMANY

TABLE 17 EXISTING REGULATIONS, SUBSIDIES, AND TAX STRUCTURE IN GERMANY

5.11 COVID-19 IMPACT ANALYSIS

5.11.1 INTRODUCTION TO COVID-19

5.11.2 COVID-19 HEALTH ASSESSMENT

5.12 COVID-19 ECONOMIC ASSESSMENT

5.12.1 COVID-19 ECONOMIC IMPACT—SCENARIO ASSESSMENT

5.12.2 COVID-19 IMPACT ON AUTOMOTIVE INDUSTRY

5.12.3 OEM ANNOUNCEMENTS

TABLE 18 OEM ANNOUNCEMENTS

5.12.4 IMPACT ON AUTOMOTIVE PRODUCTION

5.13 CNG AND LPG VEHICLE MARKET, SCENARIOS (2020–2025)

FIGURE 36 CNG AND LPG VEHICLE MARKET – FUTURE TRENDS & SCENARIO, 2020–2026 (THOUSAND UNITS)

5.13.1 MOST LIKELY SCENARIO

TABLE 19 MOST LIKELY SCENARIO, BY REGION, 2021–2026 (THOUSAND UNITS)

5.13.2 OPTIMISTIC SCENARIO

TABLE 20 OPTIMISTIC SCENARIO, BY REGION, 2021–2026 (THOUSAND UNITS)

5.13.3 PESSIMISTIC SCENARIO

TABLE 21 PESSIMISTIC SCENARIO, BY REGION, 2021–2026 (THOUSAND UNITS)

6 CNG AND LPG VEHICLE MARKET, BY ENGINE/SYSTEM TYPE

6.1 INTRODUCTION

FIGURE 37 DEDICATED FUEL SEGMENT EXPECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 22 CNG AND LPG VEHICLE MARKET, BY ENGINE/SYSTEM TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 23 CNG AND LPG VEHICLE MARKET, BY ENGINE/SYSTEM TYPE, 2021–2026 (THOUSAND UNITS)

6.2 OPERATIONAL DATA

TABLE 24 POPULAR CNG AND LPG OEMS AND KIT PROVIDERS GLOBALLY

6.2.1 ASSUMPTIONS

TABLE 25 ASSUMPTIONS: BY ENGINE/SYSTEM TYPE

6.3 RESEARCH METHODOLOGY

6.4 DEDICATED FUEL

6.4.1 GOVERNMENT INCENTIVES TO DRIVE ADOPTION OF DEDICATED FUEL SYSTEM VEHICLES

TABLE 26 DEDICATED FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 27 DEDICATED FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

6.5 BI-FUEL

6.5.1 EASY FUEL SWITCHING TO ENCOURAGE BI-FUEL SYSTEM VEHICLES GROWTH

TABLE 28 BI-FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 29 BI-FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

6.6 DUAL FUEL

6.6.1 FAVORABLE GOVERNMENT POLICIES TO INCREASE GROWTH OF DUAL FUEL VEHICLE SEGMENT

TABLE 30 DUAL FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 31 DUAL FUEL: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

6.7 KEY PRIMARY INSIGHTS

FIGURE 38 KEY PRIMARY INSIGHTS

7 CNG AND LPG VEHICLE MARKET, BY FITTING TYPE

7.1 INTRODUCTION

FIGURE 39 OEM/FACTORY-FITTED SEGMENT EXPECTED TO REGISTER HIGHER CAGR THAN AFTERMARKET SEGMENT DURING FORECAST PERIOD

TABLE 32 CNG AND LPG VEHICLE MARKET, BY FITTING TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 33 CNG AND LPG VEHICLE MARKET, BY FITTING TYPE, 2021–2026 (THOUSAND UNITS)

7.2 OPERATIONAL DATA

TABLE 34 POPULAR CNG AND LPG OEMS AND KIT PROVIDERS WORLDWIDE

7.2.1 ASSUMPTIONS

TABLE 35 ASSUMPTIONS: BY FITTING TYPE

7.3 RESEARCH METHODOLOGY

7.4 OEM-FITTED/FACTORY-FITTED

TABLE 36 TOP OEM/FACTORY-FITTED VEHICLE MODELS SOLD IN ASIA

7.4.1 OEM/FACTORY-FITTED VEHICLES TO GROW FASTER DUE TO GROWING DEMAND OF GREEN VEHICLES

TABLE 37 OEM/FACTORY-FITTED: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 38 OEM/FACTORY FITTED: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

7.5 AFTERMARKET

7.5.1 GOVERNMENT REGULATIONS TO BENEFIT AFTERMARKET CONVERSIONS ACROSS VARIOUS COUNTRIES

TABLE 39 AFTERMARKET: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 40 AFTERMARKET: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

7.6 KEY PRIMARY INSIGHTS

FIGURE 40 KEY PRIMARY INSIGHTS

8 CNG AND LPG VEHICLE MARKET, BY FUEL TYPE

8.1 INTRODUCTION

FIGURE 41 PETROL VS AUTOGAS (LPG)

FIGURE 42 BY FUEL TYPE, LPG SEGMENT PROJECTED TO REGISTER HIGHER CAGR DURING FORECAST PERIOD (2021–2026)

TABLE 41 CNG AND LPG VEHICLE MARKET, BY FUEL TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 42 CNG AND LPG VEHICLE MARKET, BY FUEL TYPE, 2021–2026 (THOUSAND UNITS)

8.2 OPERATIONAL DATA

TABLE 43 CNG & LNG STATIONS IN EUROPE

8.2.1 ASSUMPTIONS

TABLE 44 ASSUMPTIONS: BY FUEL TYPE

8.3 RESEARCH METHODOLOGY

8.4 CNG

TABLE 45 COMPETITIVENESS OF AUTOGAS AGAINST COMPRESSED NATURAL GAS (CNG)

8.4.1 LOW COST OF OPERATIONS TO DRIVE CNG VEHICLE MARKET

TABLE 46 CNG: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 47 CNG: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

8.5 LPG

TABLE 48 AUTOGAS MARKET DATA (LPG DATA)

8.5.1 EUROPE AND NORTH AMERICA TO ENCOURAGE AUTOGAS ADOPTION
TABLE 49 LPG: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020
(THOUSAND UNITS)

TABLE 50 LPG: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026
(THOUSAND UNITS)

8.6 KEY PRIMARY INSIGHTS

FIGURE 43 KEY PRIMARY INSIGHTS

9 CNG AND LPG VEHICLE MARKET, BY INTAKE SYSTEM TYPE (LPG VEHICLES)

9.1 INTRODUCTION

FIGURE 44 LPDI SYSTEM SEGMENT TO REGISTER HIGHEST CAGR DURING
FORECAST PERIOD (2021–2026)

TABLE 51 CNG AND LPG VEHICLE MARKET, BY INTAKE SYSTEM TYPE (LPG),
2018–2020 (THOUSAND UNITS)

TABLE 52 CNG AND LPG VEHICLE MARKET, BY INTAKE SYSTEM TYPE (LPG),
2021–2026 (THOUSAND UNITS)

9.2 OPERATIONAL DATA

TABLE 53 POPULAR CNG AND LPG OEMS AND KIT PROVIDERS WORLDWIDE

9.2.1 ASSUMPTIONS

TABLE 54 ASSUMPTIONS: BY INTAKE SYSTEM TYPE (LPG VEHICLES)

9.3 RESEARCH METHODOLOGY

9.4 CONVERTER-MIXER SYSTEM

9.4.1 LOW COST OF CONVERSION TO BOOST MARKET

TABLE 55 CONVERTER-MIXER SYSTEM: CNG AND LPG VEHICLE MARKET, BY
REGION, 2018–2020 (THOUSAND UNITS)

TABLE 56 CONVERTER-MIXER SYSTEM: CNG AND LPG VEHICLE MARKET, BY
REGION, 2021–2026 (THOUSAND UNITS)

9.5 VAPOR PHASE INJECTION (VPI) SYSTEM

9.5.1 EUROPE TO BE LARGEST MARKET FOR VAPOR PHASE INJECTION (VPI)
SYSTEM

TABLE 57 VPI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020
(THOUSAND UNITS)

TABLE 58 VPI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026
(THOUSAND UNITS)

9.6 LIQUID PHASE INJECTION (LPI) SYSTEM

9.6.1 HIGHER FUEL EFFICIENCY AND BETTER EMISSION CONTROL TO
INCREASE MARKET

TABLE 59 LPI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020

(THOUSAND UNITS)

TABLE 60 LPI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026
(THOUSAND UNITS)

9.7 LIQUID PHASE DIRECT INJECTION (LPDI) SYSTEM

9.7.1 LOWEST OPERATIONAL COST TO INCREASE MARKET

TABLE 61 LPDI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION,
2018–2020 (THOUSAND UNITS)

TABLE 62 LPDI SYSTEM: CNG AND LPG VEHICLE MARKET, BY REGION,
2021–2026 (THOUSAND UNITS)

9.8 KEY PRIMARY INSIGHTS

FIGURE 45 KEY PRIMARY INSIGHTS

10 CNG AND LPG VEHICLE MARKET, BY KIT TYPE

10.1 INTRODUCTION

FIGURE 46 BY KIT TYPE, SEQUENTIAL SEGMENT EXPECTED TO REGISTER
HIGHER CAGR THAN VENTURI SEGMENT DURING FORECAST PERIOD

TABLE 63 CNG AND LPG VEHICLE MARKET, BY KIT TYPE, 2018–2020
(THOUSAND UNITS)

TABLE 64 CNG AND LPG VEHICLE MARKET, BY KIT TYPE, 2021–2026
(THOUSAND UNITS)

10.2 OPERATIONAL DATA

TABLE 65 POPULAR CNG AND LPG KIT PROVIDERS WORLDWIDE

10.2.1 ASSUMPTIONS

TABLE 66 ASSUMPTIONS: BY KIT TYPE

10.3 RESEARCH METHODOLOGY

10.4 VENTURI

10.4.1 LOW COST OF CONVERSIONS AND LOWER OPERATING COST TO DRIVE
CNG AND LPG KIT MARKET

TABLE 67 VENTURI: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020
(THOUSAND UNITS)

TABLE 68 VENTURI: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026
(THOUSAND UNITS)

10.5 SEQUENTIAL

10.5.1 HIGHER FUEL ECONOMY TO INCREASE DEMAND FOR SEQUENTIAL KITS

TABLE 69 SEQUENTIAL: CNG AND LPG VEHICLE MARKET, BY REGION,
2018–2020 (THOUSAND UNITS)

TABLE 70 SEQUENTIAL: CNG AND LPG VEHICLE MARKET, BY REGION,
2021–2026 (THOUSAND UNITS)

10.6 KEY PRIMARY INSIGHTS

FIGURE 47 KEY PRIMARY INSIGHTS

11 CNG AND LPG VEHICLE MARKET, BY VEHICLE BODY TYPE

11.1 INTRODUCTION

FIGURE 48 COMMERCIAL VEHICLE SEGMENT EXPECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 71 CNG AND LPG VEHICLE MARKET, BY VEHICLE BODY TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 72 CNG AND LPG VEHICLE MARKET, BY VEHICLE BODY TYPE, 2021–2026 (THOUSAND UNITS)

11.2 OPERATIONAL DATA

TABLE 73 POPULAR CNG AND LPG VEHICLE PROVIDERS GLOBALLY

11.2.1 ASSUMPTIONS

TABLE 74 ASSUMPTIONS: BY VEHICLE BODY TYPE

11.3 RESEARCH METHODOLOGY

11.4 PASSENGER CAR

11.4.1 GROWING DEMAND FOR LOW EMISSION AND LOW OPERATIONAL COST FUELS

TABLE 75 PASSENGER CAR: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 76 PASSENGER CAR: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

11.5 COMMERCIAL VEHICLE

11.5.1 EUROPE AND NORTH AMERICA TO ENCOURAGE CNG AND LPG FOR COMMERCIAL VEHICLES

TABLE 77 COMMERCIAL VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 78 COMMERCIAL VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

11.6 THREE-WHEELER

11.6.1 ASIA OCEANIA IS THE LARGEST CNG AND LPG THREE-WHEELER MARKET

TABLE 79 THREE-WHEELER: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 80 THREE-WHEELER: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

11.7 KEY PRIMARY INSIGHTS

FIGURE 49 KEY PRIMARY INSIGHTS**12 CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE****12.1 INTRODUCTION**

FIGURE 50 HEAVY-DUTY VEHICLE SEGMENT PROJECTED TO REGISTER HIGHER CAGR THAN LIGHT-DUTY VEHICLE SEGMENT DURING FORECAST PERIOD

TABLE 81 CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 82 CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

12.2 OPERATIONAL DATA

TABLE 83 POPULAR CNG AND LPG VEHICLE PROVIDERS WORLDWIDE

12.2.1 ASSUMPTIONS

TABLE 84 ASSUMPTIONS: BY VEHICLE TYPE

12.3 RESEARCH METHODOLOGY**12.4 LIGHT-DUTY VEHICLE**

12.4.1 GROWING DEMAND FOR LOW EMISSION PASSENGER VEHICLES TO BOOST THIS SEGMENT

TABLE 85 LIGHT-DUTY VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 86 LIGHT-DUTY VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 87 NGV PASSENGER CAR MODELS IN EUROPE

TABLE 88 LIGHT COMMERCIAL VEHICLE MODELS FOR EUROPE

12.5 HEAVY-DUTY VEHICLE

12.5.1 EUROPEAN AND NORTH AMERICAN GOVERNMENTS TO ENCOURAGE CNG AND LPG FOR HEAVY-DUTY VEHICLES

TABLE 89 HEAVY-DUTY VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 90 HEAVY-DUTY VEHICLE: CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 91 BUS MODELS IN EUROPE

TABLE 92 TRUCK MODELS FOR EUROPE

TABLE 93 LIGHT VEHICLES, BUSES, AND TRUCKS IN USE IN EUROPE

12.6 KEY PRIMARY INSIGHTS

FIGURE 51 KEY PRIMARY INSIGHTS

13 CNG AND LPG VEHICLE MARKET, BY REGION

13.1 INTRODUCTION

FIGURE 52 ASIA OCEANIA ESTIMATED TO ACCOUNT FOR LARGEST MARKET SHARE
IN 2021

TABLE 94 CNG AND LPG VEHICLE MARKET, BY REGION, 2018–2020 (THOUSAND UNITS)

TABLE 95 CNG AND LPG VEHICLE MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

13.2 ASIA OCEANIA

FIGURE 53 SIGNIFICANT LOWER TAX AND GOVERNMENT INCENTIVES FOR CNG AND LPG VEHICLES TO DRIVE MARKET IN ASIA OCEANIA

FIGURE 54 ASIA OCEANIA: CNG AND LPG VEHICLE MARKET SNAPSHOT

TABLE 96 ASIA OCEANIA: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2018–2020 (THOUSAND UNITS)

TABLE 97 ASIA OCEANIA: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

13.2.1 CHINA

13.2.1.1 Gazprom-China deal expected to boost demand

TABLE 98 CHINA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 99 CHINA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.2.2 INDIA

13.2.2.1 Vehicle Scrappage Policy and Green Tax for High Emission Vehicles in India

TABLE 100 INDIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 101 INDIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.2.3 JAPAN

13.2.3.1 Stringent emission standards to lead to CNG and LPG vehicle market growth

TABLE 102 JAPAN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 103 JAPAN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.2.4 SOUTH KOREA

13.2.4.1 OEMs to work with government to build required infrastructure for CNG and

LPG vehicles

TABLE 104 SOUTH KOREA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 105 SOUTH KOREA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.2.5 INDONESIA

13.2.5.1 Government schemes and subsidies to improve CNG and LPG vehicle market

TABLE 106 INDONESIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 107 INDONESIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.2.6 THAILAND

13.2.6.1 OEMs to work with government to build required CNG and LPG vehicles infrastructure

TABLE 108 THAILAND: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 109 THAILAND: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3 EUROPE

FIGURE 55 EUROPE: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

TABLE 110 EUROPE: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2018–2020 (THOUSAND UNITS)

TABLE 111 EUROPE: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

13.3.1 TURKEY

13.3.1.1 Government measures and policies to increase demand for LPG vehicles

TABLE 112 TURKEY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 113 TURKEY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.2 ITALY

13.3.2.1 Major OEMs and aftermarket kit companies to develop CNG and LPG vehicle market

TABLE 114 ITALY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 115 ITALY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.3 RUSSIA

13.3.3.1 High adoption of CNG and LPG vehicles expected due to favorable government policies

TABLE 116 RUSSIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, POINT, 2018–2020 (THOUSAND UNITS)

TABLE 117 RUSSIA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.4 SPAIN

13.3.4.1 Government and OEMs working together for growth of CNG and LPG vehicle market

TABLE 118 SPAIN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 119 SPAIN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.5 GERMANY

13.3.5.1 Growing demand for alternative fuel vehicles to grow CNG and LPG vehicle market

TABLE 120 GERMANY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 121 GERMANY: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.6 FRANCE

13.3.6.1 Government initiatives to boost CNG and LPG vehicle market

TABLE 122 FRANCE: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 123 FRANCE: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.3.7 UK

13.3.7.1 Government initiatives to boost CNG and LPG vehicle market in short term

TABLE 124 UK: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 125 UK: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.4 NORTH AMERICA

FIGURE 56 NORTH AMERICA: CNG AND LPG VEHICLE MARKET SNAPSHOT

TABLE 126 NORTH AMERICA: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2018–2020 (THOUSAND UNITS)

TABLE 127 NORTH AMERICA: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

13.4.1 CANADA

13.4.1.1 Government support for CNG and LPG infrastructure to boost demand

TABLE 128 CANADA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 129 CANADA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.4.2 US

13.4.2.1 Inclination towards innovation, technology, and development of safe and comfortable automobiles to boost demand

TABLE 130 US: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 131 US: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.4.3 MEXICO

13.4.3.1 Favorable government regulations to boost demand

TABLE 132 MEXICO: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 133 MEXICO: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.5 REST OF THE WORLD

FIGURE 57 REST OF THE WORLD CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021 VS 2026

TABLE 134 REST OF THE WORLD: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2018–2020 (THOUSAND UNITS)

TABLE 135 REST OF THE WORLD: CNG AND LPG VEHICLE MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

13.5.1 BRAZIL

13.5.1.1 Government support for CNG infrastructure to boost demand

TABLE 136 BRAZIL: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 137 BRAZIL: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.5.2 SOUTH AFRICA

13.5.2.1 Government policies and participation of OEMs to boost demand

TABLE 138 SOUTH AFRICA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 139 SOUTH AFRICA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.5.3 ARGENTINA

13.5.3.1 Favorable government regulations to boost demand

TABLE 140 ARGENTINA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 141 ARGENTINA: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

13.5.4 IRAN

13.5.4.1 High demand to boost CNG vehicle market

TABLE 142 IRAN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2018–2020 (THOUSAND UNITS)

TABLE 143 IRAN: CNG AND LPG VEHICLE MARKET, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

14 COMPETITIVE LANDSCAPE

14.1 MARKET EVALUATION FRAMEWORK

FIGURE 58 MARKET EVALUATION FRAMEWORK

14.2 OVERVIEW

FIGURE 59 RIGHTS TO WIN - DETAILS ON KEY DEVELOPMENTS BY LEADING PLAYERS

14.3 MARKET SHARE ANALYSIS FOR CNG AND LPG VEHICLE MARKET

TABLE 144 MARKET SHARE ANALYSIS FOR OE MARKET, 2020

FIGURE 60 MARKET SHARE ANALYSIS FOR OE, 2020

14.4 MARKET EVALUATION FRAMEWORK: REVENUE ANALYSIS OF TOP LISTED/ PUBLIC PLAYERS

FIGURE 61 TOP PUBLIC/LISTED PLAYERS DOMINATING CNG AND LPG VEHICLE MARKET IN LAST 5 YEARS

14.5 MARKET RANKING ANALYSIS FOR CNG AND LPG VEHICLE MARKET

FIGURE 62 MARKET RANKING ANALYSIS, 2020

14.6 COMPETITIVE SCENARIO

14.6.1 NEW PRODUCT LAUNCHES

TABLE 145 PRODUCT LAUNCHES, 2017–2020

14.6.2 DEALS

TABLE 146 DEALS, 2017–2020

14.6.3 EXPANSIONS, 2017–2020

TABLE 147 EXPANSIONS, 2017–2020

14.7 COMPETITIVE LEADERSHIP MAPPING FOR CNG AND LPG VEHICLE MARKET

14.7.1 STARS

14.7.2 EMERGING LEADERS

14.7.3 PERVASIVE

14.7.4 PARTICIPANTS

FIGURE 63 CNG AND LPG VEHICLE MARKET: COMPETITIVE LEADERSHIP
MAPPING FOR VEHICLE MANUFACTURERS, 2020

TABLE 148 CNG AND LPG VEHICLE MARKET: COMPANY PRODUCT FOOTPRINT,
2020

TABLE 149 CNG AND LPG VEHICLE MARKET: COMPANY APPLICATION
FOOTPRINT , 2020

TABLE 150 CNG AND LPG VEHICLE MARKET: COMPANY REGION FOOTPRINT,
2020

FIGURE 64 CNG AND LPG VEHICLE MARKET: COMPETITIVE LEADERSHIP
MAPPING FOR CNG/LPG PARTS/KIT MANUFACTURERS, 2020

14.8 WINNERS VS. TAIL-ENDERS

TABLE 151 WINNERS VS. TAIL-ENDERS

15 COMPANY PROFILES

15.1 KEY PLAYERS

(Business overview, Products offered, Recent Developments, SWOT analysis, MNM
view)*

15.1.1 FORD MOTOR COMPANY

TABLE 152 FORD MOTOR COMPANY: BUSINESS OVERVIEW

FIGURE 65 FORD MOTOR COMPANY: COMPANY SNAPSHOT

TABLE 153 FORD MOTOR COMPANY: PRODUCTS OFFERED

TABLE 154 FORD MOTOR COMPANY: NEW PRODUCT
DEVELOPMENTS/EXPANSIONS

TABLE 155 FORD MOTOR COMPANY: PARTNERSHIPS/COLLABORATIONS/JOINT
VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.2 SUZUKI MOTOR CORPORATION

TABLE 156 SUZUKI MOTOR CORPORATION: BUSINESS OVERVIEW

FIGURE 66 SUZUKI MOTOR CORPORATION: COMPANY SNAPSHOT

TABLE 157 SUZUKI MOTOR CORPORATION: PRODUCTS OFFERED

TABLE 158 SUZUKI MOTOR CORPORATION: NEW PRODUCT
DEVELOPMENTS/EXPANSIONS

TABLE 159 SUZUKI MOTOR CORPORATION: PARTNERSHIPS/COLLABORATIONS/
JOINT VENTURES/SUPPLY CONTRACTS/AGREEMENTS/MERGERS &
ACQUISITIONS

15.1.3 HONDA MOTOR COMPANY

TABLE 160 HONDA MOTOR COMPANY: BUSINESS OVERVIEW

FIGURE 67 HONDA MOTOR COMPANY: COMPANY SNAPSHOT

TABLE 161 HONDA MOTOR COMPANY: PRODUCTS OFFERED

TABLE 162 HONDA MOTOR COMPANY: NEW PRODUCT
DEVELOPMENTS/EXPANSIONS

TABLE 163 HONDA MOTOR COMPANY:
PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/SUPPLY
CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.4 HYUNDAI MOTOR GROUP

TABLE 164 HYUNDAI MOTOR GROUP: BUSINESS OVERVIEW

FIGURE 68 HYUNDAI MOTOR GROUP: COMPANY SNAPSHOT

TABLE 165 HYUNDAI MOTOR GROUP: PRODUCTS OFFERED

TABLE 166 HYUNDAI MOTOR GROUP: NEW PRODUCT
DEVELOPMENTS/EXPANSIONS

TABLE 167 HYUNDAI MOTOR GROUP: PARTNERSHIPS/COLLABORATIONS/JOINT
VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.5 VOLKSWAGEN AG

TABLE 168 VOLKSWAGEN AG: BUSINESS OVERVIEW

FIGURE 69 VOLKSWAGEN AG: COMPANY SNAPSHOT

TABLE 169 VOLKSWAGEN AG: PRODUCTS OFFERED

TABLE 170 VOLKSWAGEN AG: NEW PRODUCT DEVELOPMENTS/EXPANSIONS

TABLE 171 VOLKSWAGEN AG: PARTNERSHIPS/COLLABORATIONS/JOINT
VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

FIGURE 70 VOLKSWAGEN AG: BRAND REVENUE DISTRIBUTION

15.1.6 FIAT CHRYSLER AUTOMOBILES

TABLE 172 FIAT CHRYSLER AUTOMOBILES: BUSINESS OVERVIEW

FIGURE 71 FIAT CHRYSLER AUTOMOBILES: COMPANY SNAPSHOT

TABLE 173 FIAT CHRYSLER AUTOMOBILES: PRODUCTS OFFERED

TABLE 174 FIAT CHRYSLER AUTOMOBILES: NEW PRODUCT
DEVELOPMENTS/EXPANSIONS

TABLE 175 FIAT CHRYSLER AUTOMOBILES: PARTNERSHIPS/COLLABORATIONS/
JOINT VENTURES/SUPPLY CONTRACTS/AGREEMENTS/MERGERS &
ACQUISITIONS

15.1.7 GENERAL MOTORS

TABLE 176 GENERAL MOTORS: BUSINESS OVERVIEW

FIGURE 72 GENERAL MOTORS: COMPANY SNAPSHOT

TABLE 177 GENERAL MOTORS: PRODUCTS OFFERED

TABLE 178 GENERAL MOTORS: NEW PRODUCT DEVELOPMENTS/EXPANSIONS

TABLE 179 GENERAL MOTORS: PARTNERSHIPS/COLLABORATIONS/JOINT
VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.8 LANDI RENZO S.P.A.

TABLE 180 LANDI RENZO: BUSINESS OVERVIEW

FIGURE 73 LANDI RENZO S.P.A.: COMPANY SNAPSHOT

TABLE 181 LANDI RENZO S.P.A.: PRODUCTS OFFERED

TABLE 182 LANDI RENZO S.P.A.: PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.9 TOMASETTO ACHILLE

TABLE 183 TOMASETTO ACHILLE: BUSINESS OVERVIEW

TABLE 184 TOMASETTO ACHILLE: PRODUCTS OFFERED

TABLE 185 TOMASETTO ACHILLE: PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.10 WESTPORT FUEL SYSTEMS

TABLE 186 WESTPORT FUEL SYSTEMS: BUSINESS OVERVIEW

FIGURE 74 WESTPORT FUEL SYSTEMS: COMPANY SNAPSHOT

TABLE 187 WESTPORT FUEL SYSTEMS: PRODUCTS OFFERED

TABLE 188 WESTPORT FUEL SYSTEMS: NEW PRODUCT DEVELOPMENTS/EXPANSIONS

TABLE 189 WESTPORT FUEL SYSTEMS:

PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.11 TOYOTA MOTOR CORPORATION

TABLE 190 TOYOTA MOTOR CORPORATION: BUSINESS OVERVIEW

FIGURE 75 TOYOTA MOTOR CORPORATION: COMPANY SNAPSHOT

TABLE 191 TOYOTA MOTOR CORPORATION: PRODUCTS OFFERED

TABLE 192 TOYOTA MOTOR CORPORATION: NEW PRODUCT DEVELOPMENTS/EXPANSIONS

TABLE 193 TOYOTA MOTOR CORPORATION:

PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

15.1.12 TATA MOTORS LIMITED

TABLE 194 TATA MOTORS LIMITED: BUSINESS OVERVIEW

FIGURE 76 TATA MOTORS LIMITED: COMPANY SNAPSHOT

TABLE 195 TATA MOTORS LIMITED PRODUCTS OFFERED

TABLE 196 TATA MOTORS LIMITED: NEW PRODUCT DEVELOPMENTS/EXPANSIONS

TABLE 197 TATA MOTORS LIMITED: PARTNERSHIPS/COLLABORATIONS/JOINT VENTURES/ SUPPLY CONTRACTS/AGREEMENTS/MERGERS & ACQUISITIONS

*Details on Business overview, Products offered, Recent Developments, SWOT analysis, MNM view might not be captured in case of unlisted companies.

15.2 OTHER PLAYERS

- 15.2.1 GREAT WALL MOTORS
- 15.2.2 GUANGZHOU AUTOMOBILE INDUSTRY GROUP
- 15.2.3 SAIC MOTOR CORPORATION
- 15.2.4 FAW GROUP
- 15.2.5 BAIC GROUP
- 15.2.6 DONGFENG MOTOR GROUP
- 15.2.7 MAHINDRA & MAHINDRA
- 15.2.8 EICHER MOTORS
- 15.2.9 BAJAJ GROUP
- 15.2.10 MAZDA MOTOR CORPORATION
- 15.2.11 MITSUBISHI MOTORS
- 15.2.12 NISSAN MOTOR COMPANY
- 15.2.13 SUBARU CORPORATION
- 15.2.14 DONGXU
- 15.2.15 NIKKI CO., LTD.
- 15.2.16 DAIMLER AG
- 15.2.17 RENAULT
- 15.2.18 AB VOLVO
- 15.2.19 PSA GROUP
- 15.2.20 CNH INDUSTRIAL NV
- 15.2.21 AC SPOLKA
- 15.2.22 KION GROUP
- 15.2.23 ATIKER GROUP
- 15.2.24 DEERE AND COMPANY
- 15.2.25 PACCAR
- 15.2.26 AGILITY FUEL SOLUTIONS
- 15.2.27 CUMMINS
- 15.2.28 QUANTUM FUEL SYSTEMS
- 15.2.29 AGRALE
- 15.2.30 MACROPOLO SA
- 15.2.31 IRAN KHODRO
- 15.2.32 SAIPA
- 15.2.33 IGT MOTORS

16 RECOMMENDATIONS BY MARKETSANDMARKETS

16.1 BI-FUEL SYSTEM, PASSENGER CAR, AND LIGHT COMMERCIAL VEHICLE ARE THE SEGMENTS FOR MANUFACTURERS/SUPPLIERS TO FOCUS ON

16.2 EMERGING MARKETS CAN BE A KEY FOCUS AREA FOR CNG AND LPG
VEHICLE MANUFACTURERS

16.3 CONCLUSION

17 APPENDIX

17.1 KEY INSIGHTS OF INDUSTRY EXPERTS

17.2 DISCUSSION GUIDE

17.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

17.4 AVAILABLE CUSTOMIZATIONS

17.5 RELATED REPORTS

17.6 AUTHOR DETAILS

About

The unprecedented rise and fall in gasoline and diesel prices over the last few years, driven by extensive fluctuation in the cost of crude oil and growing emission standards, have forced people to look for cost-effective and environment-friendly mobility solutions. With worldwide economic recovery underway, demand for crude oil is on the rise. However, unrest in the Middle East and North Africa has put oil supplies at risk. This combination of rising demand and reduced supply has provided an impetus to CNG & LPG vehicles.

CNG and LPG are both fossil fuels but they produce XX% to XX% less pollutants, XX% to XX% less greenhouse gases, and they cost as less as half the price of gasoline but fuelling infrastructure and range anxiety still remain a major cause of concern. Even in this uncertain scenario, there is a wide opportunity for these vehicles to become a generic application in global transportation.

Europe initiated the use of CNG& LPG in vehicles, and as of 2014 it is still the biggest market. However, over the past decade, Asia-Pacific has grown to become the largest natural gas vehicles market, led by Pakistan and India, with China surging ahead. Favorable fuel economics between oil and natural gas, national security and environmental factors, in part or in full, drove the adoption of natural gas vehicles in this region. Asia-Pacific, including China, now consumes more than XX million barrels per day of oil, for transportation purpose. For China specifically, the factors propelling the country forward in the use of gas in transportation are the much cleaner burning attributes of natural gas amid pollution problems in the country, the current favorable price of gas as compared to oil, as well as the fuel diversification factors. China is way ahead of the U.S. in the deployment of NGVs and related infrastructure.

India has always been dependent on oil imports. Given the fact that India imports as much as XX% of its crude oil requirement and petroleum prices have not been completely deregulated, the Indian economy has been very vulnerable to rising crude oil prices. Although India's natural gas production has consistently increased, demand has already exceeded supply and the country has been a net importer of natural gas since 2004. Natural gas presently constitutes about XX% of the country's energy basket.

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