

Autogas is CLEAN



GOVERNMENT POLICY **ENCOURAGING** THE **USE OF AUTOGAS** CAN RAPIDLY LEAD TO **IMPROVED AIR QUALITY** IN CITIES



LPG IS TRANSPORTED AS A **LIQUID** BUT HAS ALL **THE BENEFITS OF A GAS**



22% LOWER CO₂ THAN PETROL (LCA*)



96% LESS NO_x & 68% LESS NO_x THAN DIESEL THAN PETROL



120 TIMES LESS SMALL PARTICLE EMISSIONS THAN DIESEL VEHICLES

* European Commission (Annex to implementing measures to Fuel Quality Directive)

What is AUTOGAS



WHEN **USED** AS AN **ON-ROAD ENGINE FUEL**, **LPG** IS CALLED **AUTOGAS**

What is it MADE OF?



AUTOGAS THAT IS SOLD AT PETROL STATIONS CAN BE EITHER **JUST PROPANE, BUTANE** OR A **PROPANE/BUTANE MIX**

What's in a NAME?

In the **UNITED STATES**, Autogas is more commonly known under the name of its primary constituent, **PROPANE**.

In the **UK** **LPG** and **AUTOGAS** are used interchangeably.

In **ITALY** and **FRANCE**, **GPL** is used, and in **SPAIN** Autogas is referred to as **GLP**.

In many **ASIAN COUNTRIES** the term Autogas is not commonly recognised as a generic term, and the use of the terms **LPG** or **AUTOLPG** is more common.

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WLPGA

Autogas

SAFE | AVAILABLE | GROWING | CLEAN | CONVENIENT

The CHALLENGE of Transport



OUTDOOR AIR POLLUTION



CAUSES **3.7 MILLION DEATHS**, EACH YEAR



AFFECTS **1600 CITIES** WORLDWIDE



IN LONDON **7500** PEOPLE **DIE EARLY** EACH YEAR DUE TO **AIR POLLUTION***

TRANSPORT IS A MAJOR SOURCE OF OUTDOOR AIR POLLUTION



70%



OF THE AIR POLLUTION CAUSED IN CHINESE CITIES IS DUE TO **EXHAUST EMISSIONS**



PRIVATE CARS ACCOUNT FOR **LESS THAN 1/3 OF TRIPS** IN CITIES WORLDWIDE, BUT ARE RESPONSIBLE FOR **73%** OF **URBAN AIR POLLUTANTS**

AND THE ISSUE IS SET TO BECOME MORE IMPORTANT BY 2050

- THE **WORLD'S POPULATION** IS ESTIMATED TO BE **9.2 BILLION**
- OF WHICH **6.3 BILLION** WILL LIVE IN **CITIES**
- THERE WILL BE **MORE THAN 2 BILLION LIGHT DUTY VEHICLES** ON THE ROADS

HOW CAN AUTOGAS ADDRESS THIS CHALLENGE?

* Source: Clean Air London

Autogas is **SAFE**



STRICT STANDARDS AND REGULATIONS AND SET BY **EXPERTS** IN RECOGNISED ORGANISATIONS FOR EXAMPLE **THE EUROPEAN UNION** AND NATIONAL GOVERNMENTS



COMPONENTS ARE **THOROUGHLY TESTED** BY INDEPENDENT LABORATORIES, **BEFORE** ENTERING THE MARKET

WIDELY USED BY GOVERNMENTS AND THE PRIVATE SECTOR



USED BY **TAXIS, POLICE CARS, AMBULANCES, DRIVING SCHOOLS AND RENTAL CARS, EVEN RACING CARS**

Autogas is **CONVENIENT**



MANY GOVERNMENTS **PROMOTE AUTOGAS** MAKING IT A VERY **COST EFFICIENT FUEL**



AUTOGAS TANKS ARE COMPACT AND **EASILY INTEGRATED** IN THE CAR WITHOUT LOSS OF TRUNK SPACE



AND REFUELLING IS **CLEAN & EASY**

71 000 REFUELLING STATIONS

PARKING & MOBILITY



LOWER TAXES

SEVERAL COUNTRIES AND CITIES OFFER **REDUCED ROAD TAXES** AND **FREE PARKING** FOR LPG CARS

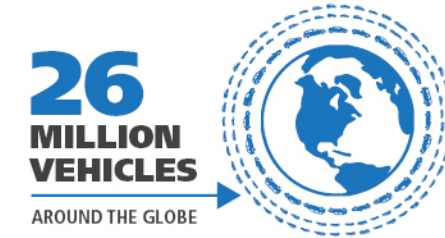


LPG POWERED CARS ARE WELCOME IN **UNDERGROUND CAR PARKS** IN MOST COUNTRIES

Autogas is **AVAILABLE**

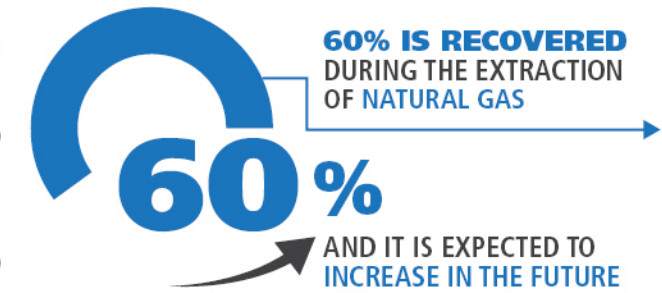


7 OF THE 10 LARGEST CAR MANUFACTURERS IN THE WORLD PRODUCE **LPG POWERED CARS**

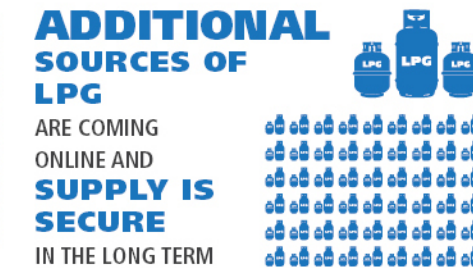


26 MILLION VEHICLES AROUND THE GLOBE

LPG HAS CLEAN ORIGINS



LPG CAN BE TRANSPORTED ALMOST **ANYWHERE** BY **SEA RAIL ROAD**



ADDITIONAL SOURCES OF LPG ARE COMING ONLINE AND **SUPPLY IS SECURE** IN THE LONG TERM

Autogas is **GROWING**

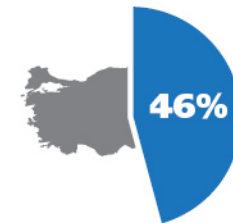


LPG IS THE MOST COMMONLY USED ALTERNATIVE FUEL IN THE WORLD



GUANGZHOU HAS PUT OVER **31,000 LPG VEHICLES** INTO OPERATION SINCE THE GENERAL **PROMOTION OF AUTOGAS**, ACCOUNTING FOR MORE THAN **95%** OF THE CITY'S TOTAL **BUSES AND TAXIS**.

IN **TURKEY**, MORE THAN **46%** OF PRIVATE CARS NOW RUN ON **AUTOGAS***



THE FUTURE OF TRANSPORT **STARTS NOW.** AUTOGAS CAN DELIVER THIS FUTURE **TODAY!**

* Source: WLPGA Autogas Incentive Policies