



Alison Abbott 31st AIGLP Congress, Bogotá 10 March 2016



Agenda



- About WLPGA
- 2 An Insight into Autogas Markets
- **B** European Policy Environment
- Case Studies
- Trends and Opportunities





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WLPGA



- The only global association representing the LPG industry for over 25 years
- Over 230 members operating in over 125 countries
- Represents the interests of the full LPG value chain from producer to distributor
- Partner with key global organisations such as the World Bank and the UNDP



www.wlpga.org



WLPGA Global Networks



- Global Cylinder Network (GCN)
- Global Technology Network (GLOTEC)
- Women in LPG Global Network (WINLPG)
- Global Autogas Network (GAIN)





GAIN



- Grow the use of Autogas as a transportation fuel
- Co-ordinate the efforts and leverage the experience of its members
- Encourage technology development
- Act as a communications and information centre



Agenda



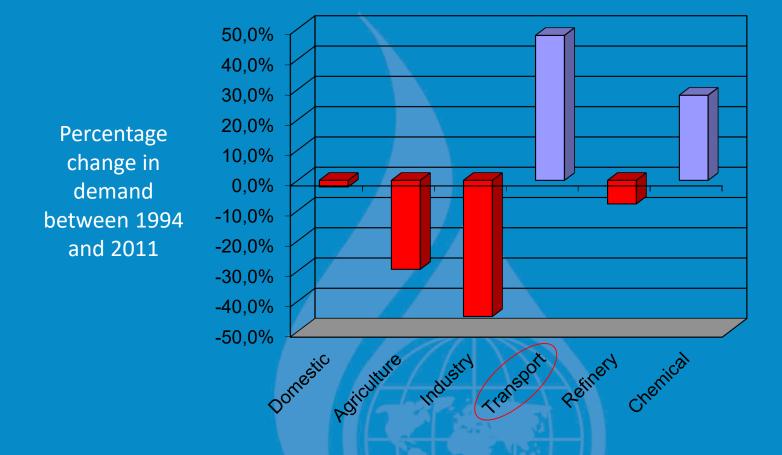
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Shifting Global Demand in Last 20 Years





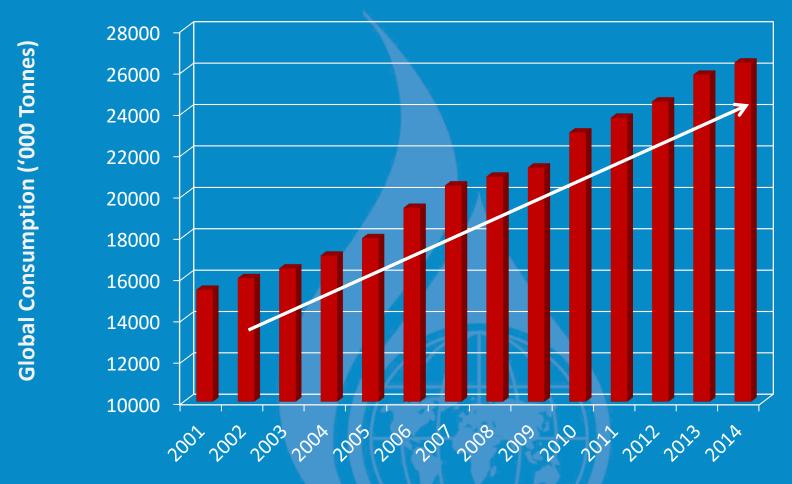
A significant increase in Autogas consumption Global demand is growing





Global Autogas Consumption





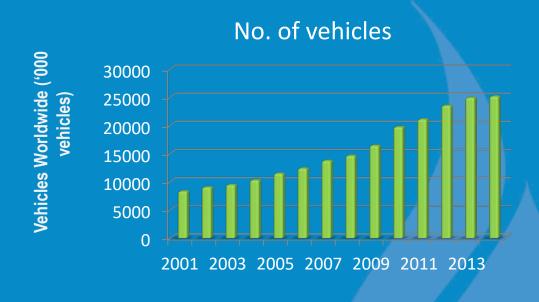
Slower consumption in mature markets – catch up in emerging markets From 15 mt in 2001 to 26 mt in 2014 26% increase since 2010



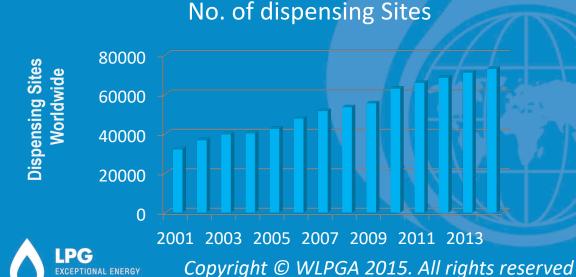


Number of Vehicles and Filling Stations





- Vehicle number doubled in last 10 years
- 25 million in 2014
- 14 million in Europe



73,000 sites in 2014

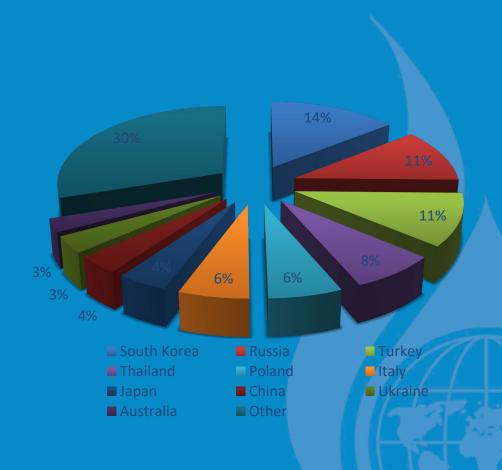
From 30,000 in 2001

Increasing global infrastructure shows optimism



Autogas Top Ten Countries





- 1. South Korea
- 2. Russia
- 3. Turkey
- 4. Thailand
- 5. Poland
- 6. Italy

Six Countries = half global demand

Many markets to explore = Opportunity to grow demand globally



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Context



- The VW scandal catastrophic for trust
- The Diesel question a ban in Paris?
- Most EU countries in breach of their air pollution reduction targets
- Cities have frequent circulation restrictions due to air pollution peaks
- New global climate deal at COP Paris 2015 global warming not to be below 2%





Passenger Car Emissions



- Regulations in 2014 caps CO2 emissions at 95gCO2/km by 2021 (fleet average)
- Currently around 130gCO2/km
- All tests done in labs
- Real Driving Regulation will ensure that emissions in real world conditions are similar to the levels measured in laboratories





Air Quality Legislation



- 18 EU Member States under infringement proceedings for exceeding PM and NO2 limits
- National Emission Ceilings Directive revised 2030 targets for many pollutants in line with the Gothenburg Protocol
- Increasing Urban Access Regulations at local level to reduce air pollution -> favour alternative technologies





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USA School Buses



- Portland Public Schools transport over 12,000 students in a school year
- 94% of the fleet is LPG powered
- LPG school buses travel over 3.5 million miles each year
- Benefits: lower fuel costs, performance, better air
 - quality
- Support from local authorities





Certification System in the UK



- Network of approved Autogas installers
- Certificate of conformity
- Central database: UKLPG Vehicle Register
- Proof of reliability for insurance companies

Realiability = Increase in consumer confidence

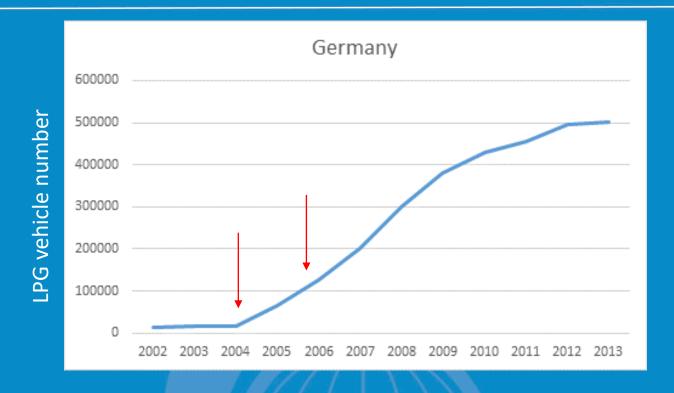






Government Incentives in Germany





- Peak price for gasoline in 2005
- Government announced long term tax reduction for LPG in 2006 to 2018





Low Emission Zones in Italy



Rome

- Only residents can access
- Permits are average 20%
 cheaper for LPG, CNG, electric
 and hybrid vehicles than for
 gasoline or diesel

Milan "area C":

- Ban some gasoline and diesel vehicles
- Residents can access for free 40 days/year, and then for 2 €/day
- Non-residents pay 5 €/day
- LPG, CNG, hybrid and electric vehicles can access for free



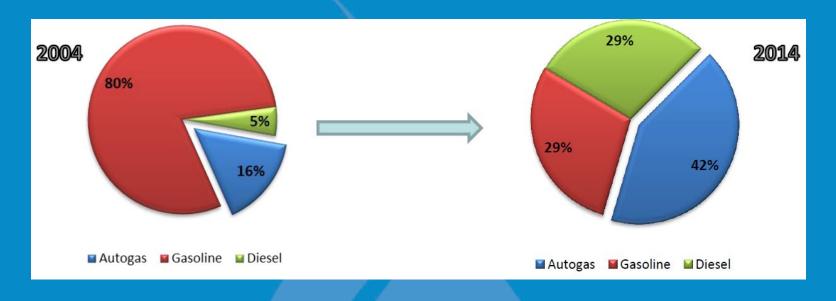






Autogas expansion in Turkey





- Favourable price differential vs gasoline/diesel
- Improvement in perceptions
- Autogas has 42% of the market
- Over 4 million vehicles and 10,000 sites





Aygaz - Successfully Changing Perceptions @ WLPGA



- From performance perceptions to emotive branding
- 3.2 m Facebook views
- 2.1 m Youtube views





AYGAZ_OTOGAZ_69SEC_ENG_SUBTITLE_69SN_22.01.2016.mp4





Learn more!



Autogas Incentive Policies

A Country-by-Country Analysis of Why and How Governments Encourage Autogas and What Works

2015 Update





Available FREE from www.auto-gas.net





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Alternative Fuels





- Environmental benefits approximately the same
- ✓ Fuel price may be lower
- Heavy fuel tanks, limited vehicle range, refueling availability low
- ✓ Success in Brazil and in the US
- Incentives being questioned due to rising food prices and doubts on CO2 performance





- ✓ Potential to become the cleanest solution
- Expensive, battery capacity issues, need for clean electricity production





OEM Vehicle Availability - OEM









































For Mature Markets ...



- LPG supply expected to keep growing, and prices to remain low
- Switch from a climate-centric environment policy to focus on air quality
- Favourable global and EU policy environment
- Electricity seen as the silver bullet, but limited take up so far
- Other new technologies not available yet



Autogas has a key role to play



Conclusions



- Global Autogas market is growing sustainably, both in mature and emerging markets
- Government policy essential in expanding markets
- Key role for OEMs/kit manufacturers and fuel marketers
- Autogas markets can grow with the right set of incentives and the right level of investment
- Autogas is a chance to address environmental challenges and dependence on oil



Benefit from WLPGA's Work





Benefit from WLPGA's Work









And finally



29th World LPG Forum & 2016 AEGPL Congress

www.worldlpgforum-aegpl2016.com

