

**OVERVIEW OF THE  
PETROL AND DIESEL  
MARKET IN  
SOUTH AFRICA  
BETWEEN  
2011 AND  
2020**



**mineral resources  
& energy**

Department:  
Mineral Resources and Energy  
REPUBLIC OF SOUTH AFRICA



# OVERVIEW OF PETROL AND DIESEL MARKET IN SOUTH AFRICA BETWEEN 2011 AND 2020

DIRECTORATE: ENERGY ECONOMICS AND STATISTICS

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# FOREWORD

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It gives me a great honour to introduce the report: *Overview of petrol and diesel market in South Africa between 2011 and 2020*. This report is based on information collated from government departments, petroleum industry and research papers, with the purpose of keeping stakeholders informed about the latest developments as well as key issues affecting the liquid fuels industry. The report gives an insight on the overall petrol and diesel market dynamics as well as the relationship between the two products nationally and provincially.

Petrol and diesel play a central role in the socio-economic development in South Africa, whilst simultaneously providing the much-needed infrastructural economic base for the country to become an attractive host for foreign investment in the energy space. The liquid fuels industry contributes significantly to both the GDP and sustaining employment opportunities within the country. The Department of Mineral Resources and Energy is working hard to ensure accurate, timely and reliable provision of data in its publications and hopes that this report will become a source of reference among energy analysts in South Africa and abroad.

I extend my utmost sincere thanks and appreciation to the Energy Economics and Statistics Directorate for the hard work that went into the compilation of this publication. I would also like to record my appreciation to all the energy data providers who have helped us to accomplish the compilation of this report. Comments and inputs are welcome and could be addressed to [Publications@energy.gov.za](mailto:Publications@energy.gov.za).

**Adv. T. Mokoena**

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**DEPARTMENT OF MINERAL RESOURCES AND ENERGY**

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# ABBREVIATIONS AND ACRONYMS

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<b>BFP</b>	Basic Fuel Price
<b>CIF</b>	Cost, Insurance and Freight
<b>CPI</b>	Consumer Price Index
<b>CTL</b>	Coal-To-Liquid
<b>DMRE</b>	Department of Minerals Resources and Energy
<b>DOE</b>	Department of Energy
<b>FOB</b>	Free on Board
<b>FOR</b>	Free on Road
<b>GDP</b>	Gross Domestic Product
<b>GTL</b>	Gas-To-Liquid
<b>IBLC</b>	In-Bond-Landed-Cost
<b>IEA</b>	International Energy Agency
<b>LPG</b>	Liquefied Petroleum Gas
<b>LRP</b>	Lead Replacement Petrol
<b>NERSA</b>	National Energy Regulator of South Africa
<b>OECD</b>	The Organisation for Economic Co-operation and Development
<b>OPEC</b>	Organization of the Petroleum Exporting Countries
<b>PPM</b>	Parts per million
<b>StatsSA</b>	Statistics South Africa
<b>ULP</b>	Unleaded Petrol
<b>USD</b>	United States Dollar



# 1. INTRODUCTION

---

The South African fuel industry has grown considerably in recent years. The liquid fuels sector contributes about R300 billion to the GDP of South Africa and provides over 100 000 direct and indirect jobs in the country (Sapia, 2019). As such, the contribution of the liquid fuel sector to the South African economy is very critical.

South Africa's transport system depends on petroleum fuels for almost all of its energy needs, with more than 85% of the petroleum fuels consumption made up of petrol and diesel (DOE, 2021 ). Given the 718 000 barrels per day refining nameplate capacity in the country (Sapia, 2019), both petrol and diesel consumption exceed refinery capacity production. Consequently, there has been a steady increase in imports of both petrol and diesel finished products.

The National Development Plan (NDP) 2030 provides South Africa's vision for socio-economic growth and development. The plan recognises that the country should have adequate supply security in electricity and in liquid fuels such that economic activity, transport, and welfare are not disrupted (NDP 2030: 163).

The South African petroleum industry has evolved over the years in line with international standards in terms of environmental sustainability as well as evolving fuel and vehicle technology. However, South Africa is still currently on Clean Fuels I (CF1) which is equivalent to Euro III liquid fuels specification. It is therefore important for South Africa to transition to Clean Fuels II (CF2) specification, which is equivalent to Euro V specification in order for the country to be in line with the latest international standards and technologies. The Euro V specification aims to cut the high levels of sulphur found in South African-produced fuels from 50 parts per million (ppm) to 10 ppm. The reduction is expected to produce the cleaner standard of fuels required for fuel-efficient vehicles, and also benefit the environment with less emissions.

## 1.1. OUTLOOK

The increase in demand for petroleum products is determined primarily by the growth in the country's GDP, GDP per capita, the rate of urbanisation and population growth. Since March 2020, the South African economy was hit hard by the global pandemic caused by the COVID 19 virus. The pandemic led to an extended lockdown period whereby economic activities were drastically reduced for some time. This situation had a massive impact on the country's GDP and labour, which were already under strain. South Africa's GDP declined by 7% in 2020 compared with previous year. According to the World Bank, the GDP is expected to recover by 4% in 2021, followed by 2.1% in 2022 and a further 1.5% increase in 2023 (World Bank, 2021).

The rate of growth in fuel demand is also dependent on the energy intensity in the country. Since April 2020, more and more people have transitioned into working from home due to travel restrictions and economic shutdowns. This had led to lower demand of fuel compared with the previous years as transport was almost halted. Although fuel demand is said to recover in 2021, the ongoing structural change in the country will determine the extent of the recovery in fuel demand in the coming years as the country continues to battle the pandemic.

Due to low oil resources in South Africa, the security of supply will depend on the economic and political stability in the Organization of the Petroleum Exporting Countries (OPEC) countries, as well as the substantial investment needed in South Africa's refinery capacity.

According to the BP Energy Outlook (2020), the demand for passenger and commercial transportation is expected to have strong growth up to 2050. The rise in energy consumption from this growth in transportation is expected to be offset by significant gains in vehicle efficiency. However, the gains in energy efficiency are partially disguised by a shift away from oil towards the increasing use of electricity and hydrogen in transport (BP Outlook, 2020). According to BP Outlook (2020) the primary energy increases by between 25% and 35% during 2050. The share of oil in total final consumption drops from over 90% in transport in 2018 to around 80% by 2050 while the share of electricity in end energy use in transport increases to between 30% and 40% by 2050 (BP Outlook, 2020).

## 1.2. LEGISLATION AND REGULATION GOVERNING THE PETROLEUM INDUSTRY

As it stands, the DMRE oversees the development of energy policy and implementation. The department's strategic goals, among others, are to ensure that the energy supply and demand are well managed, and that there is an efficient and diverse energy mix for universal access within a transformed energy sector, and also to implement policies that adapt to and mitigate the effects of climate change. Energy policy and its subsequent legislative and regulatory frameworks are the foundation upon which the regulator and investors make decisions and consumers make choices about which energy solution to use.

Following the 1994 South Africa's democratic elections; the new government reviewed and developed policies in the energy sector driven by international trends. As a result, the White Paper on Energy Policy was developed in 1998 and it has been used as the premier policy document that guides all subsequent policies, strategies and legislation within the energy sector. The objectives of the White Paper are to increase access to affordable energy services, improve energy governance, stimulate economic development, manage energy-related environmental and health effects and secure supply through diversity.

This was reiterated in the National Development Plan 2030 that was adopted in 2013 as a blueprint for future economic and socio-economic development strategy for the country. The plan envisages that by 2030 South Africa will have an energy sector that promotes economic growth and development through adequate investment in energy infrastructure. The plan also envisages that by 2030 South Africa will have an adequate supply of electricity and liquid fuels to ensure that economic activity and welfare are not disrupted.

Subsequently, in order to achieve these objectives, new policies and strategies were developed and existing policies amended. The following are legislative regulations pertaining to the petroleum sector post the promulgation of the White Paper:-

- **Petroleum Products Amendment Act:** - The Act was promulgated in 1977 but has since undergone a number of amendments, of which the last two were during 2003 and 2008. The objectives of the Act are for the government to limit the number of licences allocated. The Act prohibits manufacturers and wholesalers from holding a retail licence except for training purposes. Also, it aims to facilitate transformation of the South Africa's petroleum and liquid fuels industry, ensure system for allocation of licences, prescribe offences and penalties, and provide for appeal and arbitration as well as annexure the liquid fuels charter.

- ***Petroleum Pipelines Act, 2003:*** - The Act aims to promote competition in the construction and operation of petroleum pipelines, loading facilities and storage facilities. It intends to promote the efficient, effective, sustainable and orderly development, operation and use of petroleum pipelines, loading and storage facilities. Also, the Act aims to facilitate investment in the petroleum pipelines industry, provide for the security of petroleum pipelines and related infrastructure as well as promote companies in the petroleum pipeline industry that are owned or controlled by historically disadvantaged South Africans, amongst others.
- ***Regulations Regarding Petroleum Products Specifications and Standards for South Africa:*** - The aim of the regulation is to recommend the tightening of fuel specifications by further reducing the levels of sulphur in both petrol and diesel as well as the reduction of benzene and aromatic levels in petrol to levels equivalent to Euro 5 emissions standard.
- ***The regulations on the Mandatory Provision of Energy Data:*** - The regulations were gazetted in 2012 to enable the Department to collect, collate and publish quality energy data and information in an effective and efficient manner. The regulations also empower the Department to stipulate the type, manner and form of energy data and information that must be provided by any data provider.

Aspects of the South African petroleum value chain are regulated largely under the mandate of the Department of Mineral Resources and Energy (DMRE) and administered either directly or by the National Energy Regulator of South Africa (NERSA). The DMRE is responsible for the setting of various price levels for petroleum products and licensing activities throughout the downstream liquid fuels value chain in terms of the Petroleum Products Act, No 120 of 1977, as amended. NERSA sets tariffs for the infrastructure linked to the value chain e.g., petroleum pipelines and storage facilities.

This report presents an in-depth analysis on South Africa's petrol and diesel market, which includes sources and the overall petrol and diesel market dynamics, as well as the relationship between the two products. Also included in the overview is a brief discussion on the influence of the transport sector on the fuel market and a discussion on prices. Due to lack of reliable data at a disaggregated level, the report only focuses on national and provincial analysis as well as retail and commercial sales for petrol and diesel. Commercial sales include products sold by the Oil Companies to independent wholesalers as well as products sold to different economic sectors.

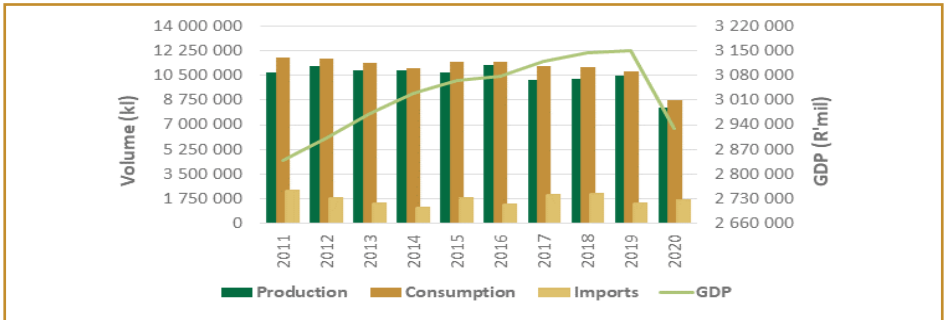
## 2. OVERVIEW OF PETROL AND DIESEL MARKET IN SOUTH AFRICA

Owing to the lack of reserves, the country imports over 90% of its crude oil (DMR E, 2021). During the transformation stage, the country produced approximately 3.2% of its fuel requirements from gas (GTL), 42.3% from coal (CTL), and 54.4% from crude oil (DOE, Energy Balance 2018). Majority of petroleum products are refined in the country, however, some petroleum products were imported to supplement the production shortfall.

In 2020, crude oil imports were mostly from OPEC countries, with 41% imported from Nigeria followed by Saudi Arabia (36.8%), Ghana (9.4%), and United Arab Emirates (4.3%), and small volumes from various producers (8.5%) (SARS trade data, 2020). South Africa has the second largest oil refining capacity in Africa. The current total refining capacity amounts to 718 002 barrels per day, of which 73% is from crude oil refining, with the balance coming from synthetic fuel refining (CTL and GTL) (Sapia, 2020). The current fuel specifications and standards published by DOE are suited to meet Euro 2 fuel standards (Clean Fuels 1).

Petrol production declined at an average rate of 2% per annum from 10 673 million litres in 2011 to 8 196 million litres in 2020. The production of petrol dropped by 22% in 2020 compared with 2019 down due refinery shutdowns during high level Covid 19 lockdown period. Petrol consumption also declined at an annual average rate of 2% from 11 781 million litres in 2011 to 8 761 million litres in 2020. The 19 % decline in petrol consumption in 2020 was also due to lockdown restriction on travelling. Petrol demand exceeded the domestic production over the ten-year study period and the excess demand was met by imports. Petrol imports dropped from a high of 2.4 billion litres in 2011 to a low of 1.15 billion litres in 2014 and since been on a rise but at an unsteady rate (Fig. 1).

**Figure 1: Supply and demand of petrol, 2011 - 2020**

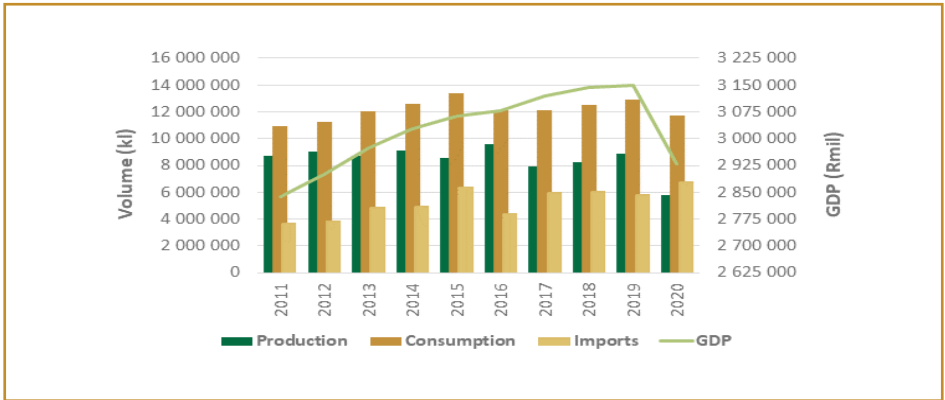


Source: Supply, demand and imports - Department of Mineral Resources and Energy (DMRE), GDP - South African Reserve Bank (SARB)

<sup>2</sup> Consumption is the fuel sales volume (FSV) as reported by South Africa's 7 Oil Companies.

Diesel production declined at an average rate of 3% per annum from 8.7 billion litres in 2011 to 5.8 billion litres in 2020. On average, diesel consumption grew during the ten-year study period at a rate of 1%, despite a 9.4% drop in consumption in 2020 compared with 2019 due to lockdown restrictions. The demand for diesel exceeded domestic supply during the observed period with the excess demand met by diesel imports. On average, diesel imports grew at a rate of 6% per year between 2011 and 2020 (Fig. 2).

**Figure 2: Supply and demand of diesel 2011 - 2020**



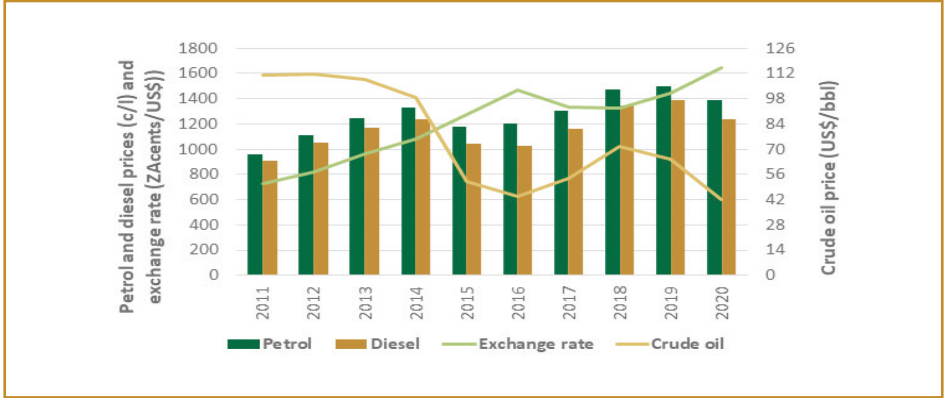
Source: Supply, demand and imports - Department of Mineral Resources and Energy (DMRE), GDP - South African Reserve Bank (SARB)

The fuel pump price in South Africa is composed of a number of price elements and these can be divided into international and domestic elements. South Africa's fuel prices are heavily influenced by trends in the global oil market and are linked to the global market by the international element, Basic Fuel Price (BFP) system, which replaced the In-Bond-Landed-Cost (IBLC) system in 2003. The BFP is determined by taking into account the movement of international petroleum products prices as well as the United States (US) Dollar/Rand exchange rate.

The largest component of the BFP is the price that one would be paying on international markets when physically importing product to South Africa and it includes freight, insurance, ocean loss, landing, wharfage, coastal storage, the financing of the coastal storage and demurrage from refining centres in the Mediterranean, Arab Gulf and Singapore. In turn, the BFP constituted approximately 36% of the retail fuel price in 2020 (DMRE, 2021).

The remaining 64% was made up of domestic elements which are subject to government control. These elements are comprised of fuel tax, equalisation fund levy, customs and excise levy, Road Accident Fund, Slate levy, transport costs, wholesale margins, retail margins and service costs. The domestic elements are then added to the BFP to make the final pump price in the different pricing zones (magisterial district zones).

**Figure 3: Petrol and diesel prices, 2011 - 2020**



Sources: Petrol and diesel prices - Department of Mineral Resources and Energy (DMRE), Exchange rates - South African Reserve Bank (SARB), Crude oil prices - Energy Information Administration (EIA)

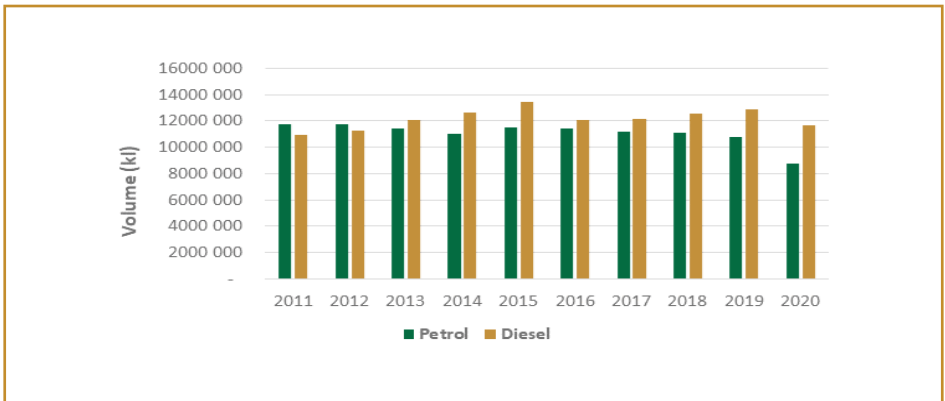


# 3. NATIONAL PETROL AND DIESEL MARKET TRENDS

## 3.1. CONSUMPTION PER PRODUCT TYPE

South Africa’s petrol consumption declined at an annual average rate of 2% from 11.7 billion litres in 2011 to 8.7 billion litres in 2020. After reaching a peak of 13.4 billion litres in 2015, diesel consumption declined by 10% in 2016 but then recovered reaching 12.9 billion litres in 2019 (Fig. 4). Due to the lockdown, consumption of diesel fell by 9.4% year-on-year in 2020.

**Figure 4: Petrol and diesel consumption, 2011 - 2020**



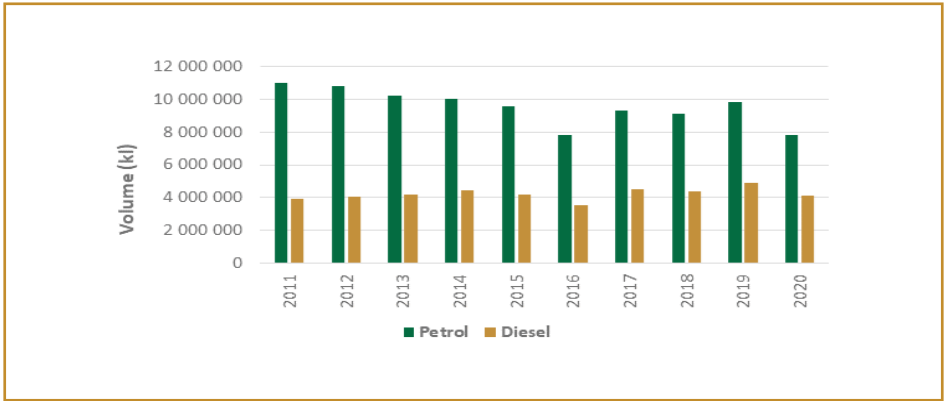
Source: Department of Mineral Resources and Energy (DMRE)

## 3.2. PETROL AND DIESEL CONSUMPTION PER TRADE SECTOR

### 3.2.1. Retail

South Africa’s retail industry continues to account for most of the petrol used. However, petrol consumption from this sector declined at an annual rate of 2.8% from 11 billion litres in 2011 to 7.8 billion litres in 2020. Petrol market share continued to decline, from 73.6% in 2011 to 65.4% in 2020 in the retail sector. On average, diesel consumption increased slightly during the same period from 3.9 billion litres in 2011 to 4.1 billion litres in 2020, despite a 15% year-on-year decline in 2020 (Fig. 5).

**Figure 5: Petrol and diesel consumption in the retail sector, 2011 - 2020**

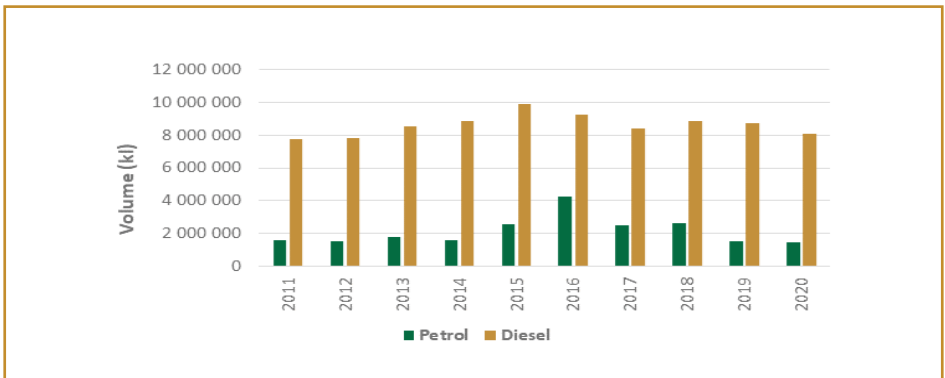


Source: Department of Mineral Resources and Energy (DMRE)

### 3.2.2. Commercial

Diesel was mostly consumed in the commercial sector in the country and grew slightly from 7.8 billion litres in 2011 to 8.1 billion litres in 2020 due to a 7.2% decline in 2020 compared with 2019. The commercial operators use their own storage and dispensing facilities for refuelling vehicles and use diesel for stationary engines, such as small boilers and generators as well as for heavy machinery for production purposes. Therefore, the increase in the diesel demand from the commercial sector was mainly driven by economic trends. The consumption of petrol in the commercial markets declined from 1.6 billion litres in 2011 to 1.5 billion in 2020 (Fig. 6).

**Figure 6: Petrol and diesel sales volumes in the commercial sector, 2011 - 2020**

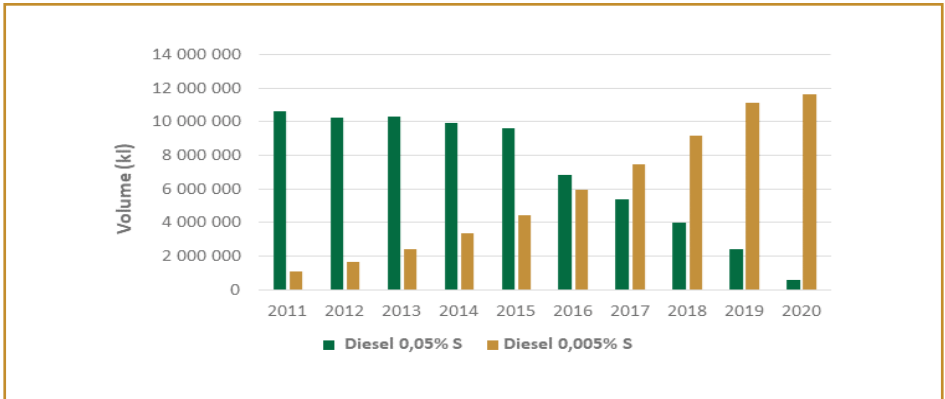


Source: Department of Mineral Resources and Energy (DMRE)

### 3.3. PETROL AND DIESEL CONSUMPTION PER GRADE

The consumption of diesel 500ppm declined at an average rate of 26% per annum, which translates to a drop from 10.6 billion litres in 2011 to 593 million litres in 2020 (Fig. 7). On the other hand, diesel 50ppm grew at an average rate of 26.7% per annum from 1.1 billion litres in 2011 to 11.6 billion litres in 2020.

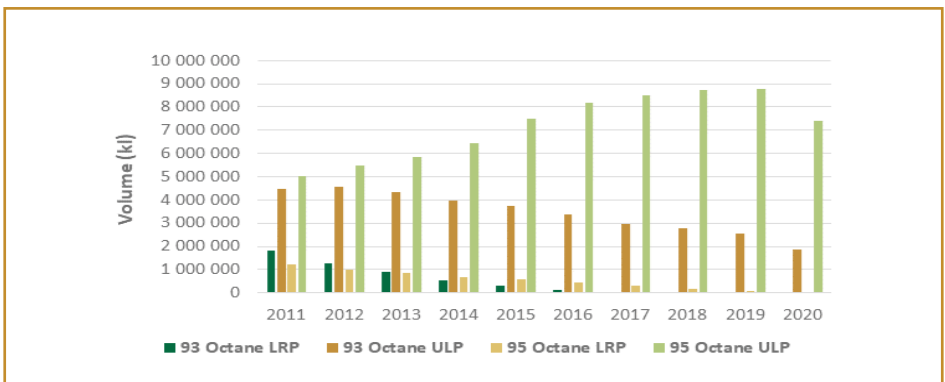
**Figure 7: Consumption per grade of diesel, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

The market share of ULP increased from 76% in 2011 to about 100% in 2020, with the 95 octane ULP grade dominating the market from 40% in 2011 to 80% in 2020 (Fig. 8). The consumption of 93 octane ULP declined at an average rate of 9.2% per annum from 4.5 billion litres in 2011 to 1.9 billion litres in 2020.

**Figure 8: Consumption per grade of petrol, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

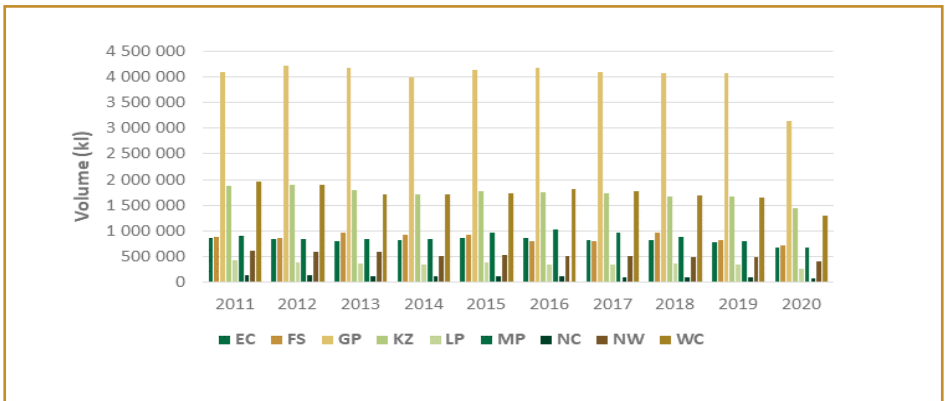


# 4. PROVINCIAL PETROL AND DIESEL MARKET TRENDS

## 4.1. PETROL CONSUMPTION PER PROVINCE

Petrol consumption per province was dominated by Gauteng, which consumed on average 36% of the total consumption in the past ten years, followed by Kwa-Zulu Natal at 15.7% and Western Cape at 15.6%. The rest of the provinces consumed petrol below 1 billion litres over the years. Northern Cape continued to rank last in the past 10 years, dropping from 135 million litres in 2011 to 89 million litres in 2020 (Fig. 9).

**Figure 9: Petrol sales volumes per province, 2011 - 2020**

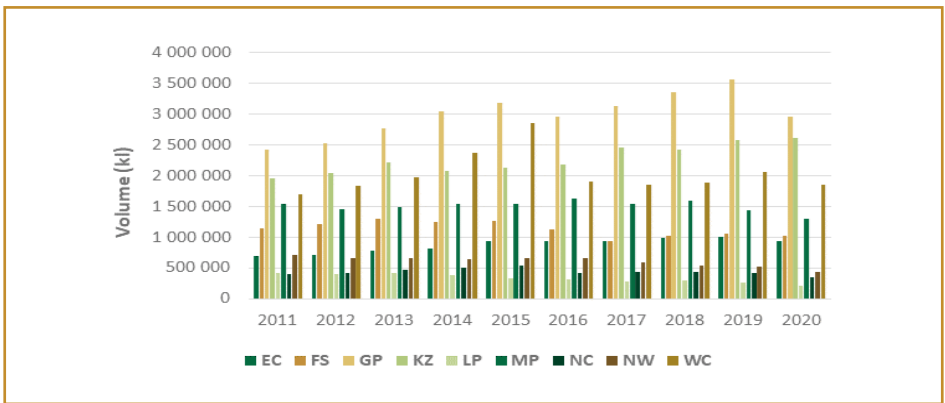


Source: Department of Mineral Resources and Energy (DMRE)

## 4.2. DIESEL CONSUMPTION PER PROVINCE

Diesel consumption per province was also dominated by Gauteng at 24.5%, followed by Kwa-Zulu Natal and Western Cape at 18.7% and 16.6%, respectively. Majority of the provinces exhibited a negative growth between 2011 and 2020 in diesel consumption with only the economic hubs of the country experiencing a positive growth (Fig. 10).

**Figure 10: Diesel sales volumes per province, 2011 - 2020**



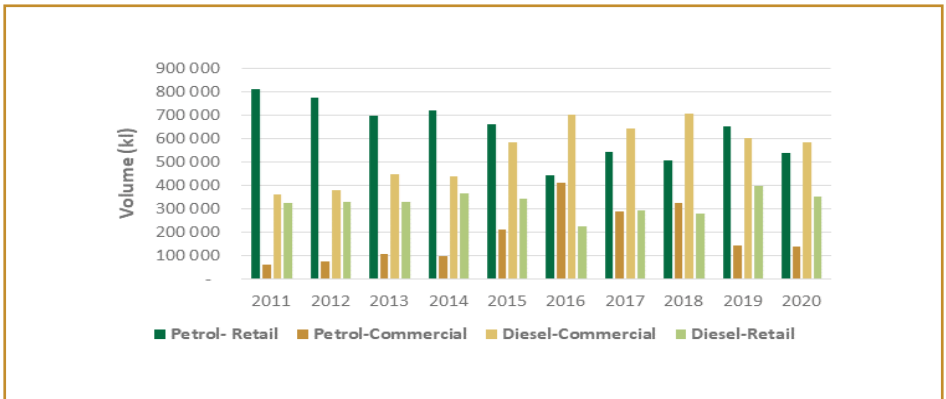
Source: Department of Mineral Resources and Energy (DMRE)

## 4.3. PROVINCIAL PETROL AND DIESEL CONSUMPTION PER TRADE SECTOR

### 4.3.1. Eastern Cape

Fuel consumption in the Eastern Cape was dominated by petrol up until 2015 when diesel overtook petrol consumption. Petrol use in the retail sector declined at an average annual rate of 4.7% from 2011 to 2020, while commercial consumption increased by an annual average rate of 12.9% during the same period. Diesel use in the retail sector was stagnant overall, while in the use of diesel in the commercial sector grew at an average rate of 6.8% per year (Fig. 11).

**Figure 11: Petrol and diesel consumption per trade sector in Eastern Cape, 2011 - 2020**

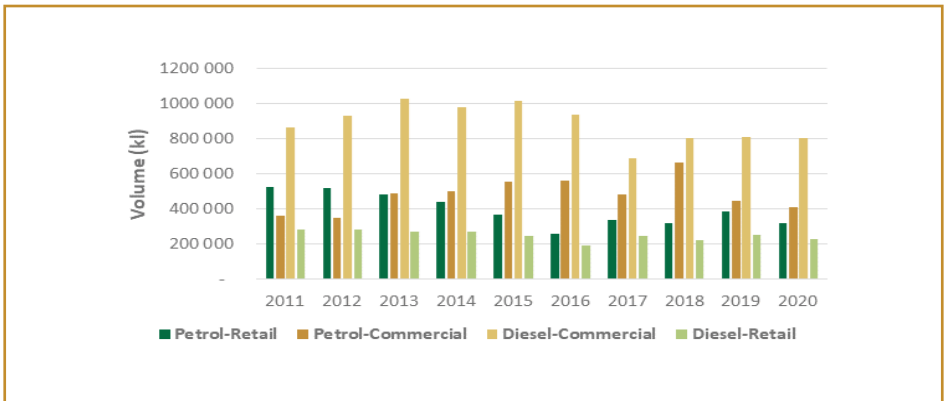


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.2. Free State

In Free State, diesel accounted for majority of the fuel demanded, market share growing from 56.4% in 2011 to 58.7% in 2020. In the commercial sector, diesel consumption declined at an annual average rate of 2.4% from 861 million litres in 2011 to 802 million litres in 2020. Diesel demand in the retail sector also declined annually by an average of 2.6% per year. Petrol consumption in the retail sector declined at an average rate of 6% per annum, while the commercial use of petrol grew at an annual average rate of 2.6%, despite a drop in the past two years (Fig. 12).

**Figure 12: Petrol and diesel consumption per trade sector in Free State, 2011 - 2020**

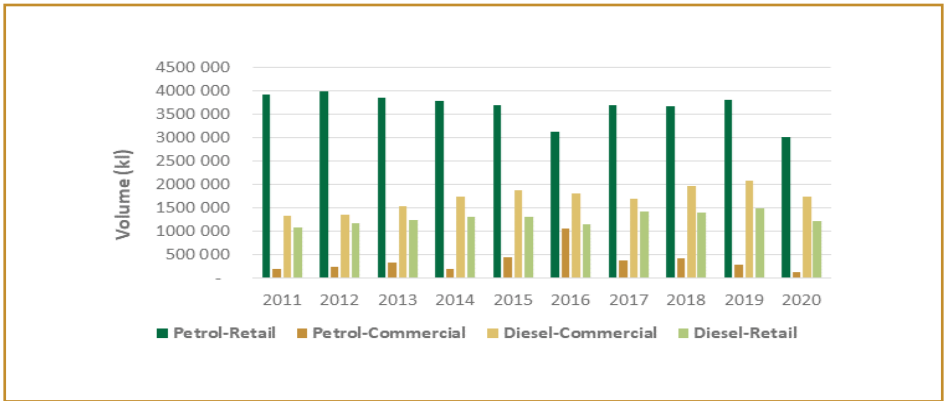


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.3. Gauteng

Fuel consumption in Gauteng was dominated by petrol throughout the study period, despite a drop in its market share from 62.8% in 2011 to 51.5% in 2020. Petrol consumption in the retail sector declined from 3.9 billion litres in 2011 to 3 billion litres in 2020, while diesel consumption grew by an average annual rate of 2.1% in the same sector. The commercial sector was dominated by diesel consumption which grew by an average of 3.9% per year, while petrol consumption in the same sector grew by 1.3% per year (Fig. 13).

**Figure 13: Petrol and diesel consumption per trade sector in Gauteng, 2011 - 2020**

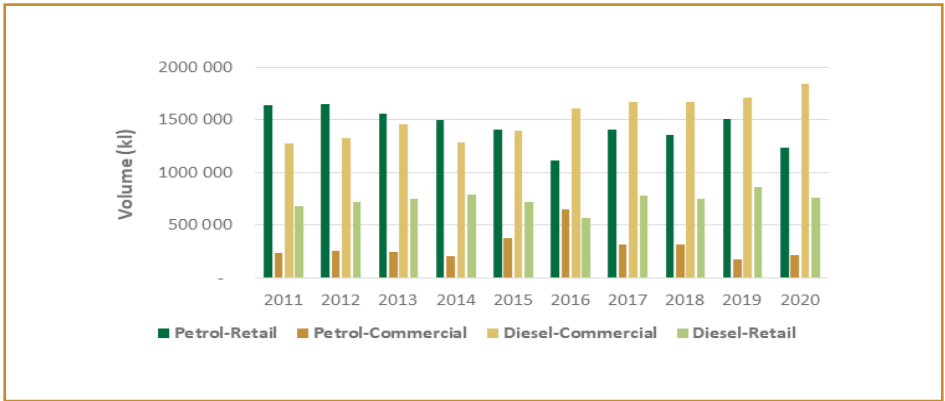


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.4. Kwa-Zulu Natal

Diesel use was dominant in Kwa-Zulu Natal since 2011 and its market share has since grown from 51.1% in 2011 to 64.3% in 2020. Petrol use in the province was characterised by a negative growth in retail, while consumption in the commercial sector declined at a slower rate. Diesel consumption in the commercial sector increased at an average of 4.1% per year while diesel consumption in the retail sector grew by an average of 1.2% per annum (Fig. 14).

**Figure 14: Petrol and diesel consumption per trade sector in Kwa-Zulu Natal, 2011 - 2020**

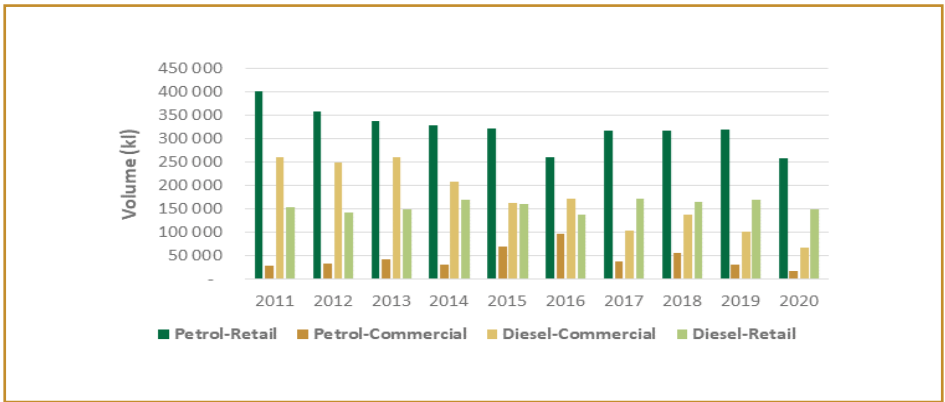


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.5. Limpopo

Petrol consumption in Limpopo decreased by 3.3% per annum in the retail sector. In commercial use, petrol consumption declined from 28 million litres in 2011 to 17.7 million litres in 2020. Diesel consumption in the commercial sector declined at an average annual rate of 14.3% while consumption in the retail sector remained stable between 2011 and 2020 (Fig. 15).

**Figure 15: Petrol and diesel consumption per trade sector in Limpopo, 2011 - 2020**

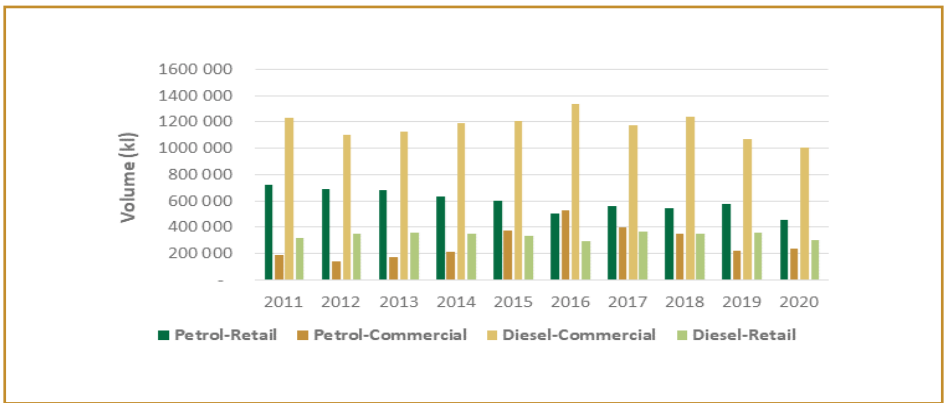


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.6. Mpumalanga

Diesel consumption in Mpumalanga declined by 1% per annum in the commercial sector while consumption remained steady in the retail sector between 2011 and 2020. Diesel continued to dominate consumption from 63% in 2011 to 65.4% in 2020, mainly due to consumption by Eskom. In retail, petrol use declined from 722 million litres in 2011 to 453 million litres in 2020, while consumption in the commercial sector grew by an annual rate of 12.2% during the study period (Fig. 16).

**Figure 16: Petrol and diesel consumption per trade sector in Mpumalanga, 2011 - 2020**

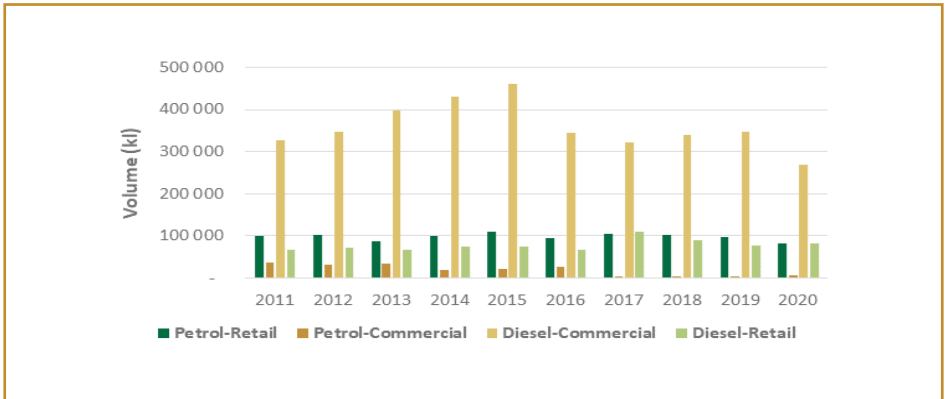


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.7. Northern Cape

The demand for fuel in Northern Cape continued to be dominated by diesel during the past 10 years, due to the mining activities in the province, with its market share growing from 74.6 % to 80% between 2011 and 2020. Diesel consumption in the commercial sector reached its peak of 462 million litres in 2015 and has since declined, reaching 270 million litres in 2020. Diesel use in the retail sector grew at an average rate of 2.9% per year. Petrol consumption in the retail sector declined from 99 million litres in 2011 to 83 million litres in 2020, while commercial use dropped by 27.3% per annum, on average (Fig. 17).

**Figure 17: Petrol and diesel consumption per trade sector in Northern Cape, 2011 – 2020**

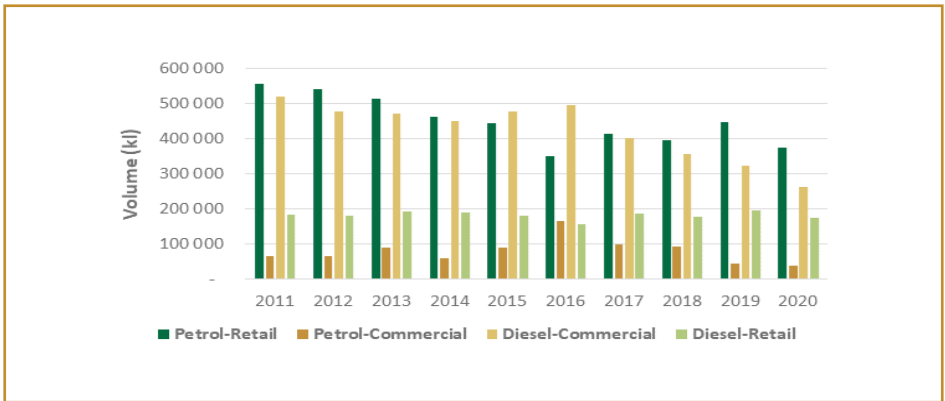


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.8. North West

Diesel use continued to dominate in North West over the study period despite a drop at an average rate of 6.5% per annum in commercial use and a steady state in retail consumption. Petrol consumption declined at an annual average rate of 4.1% in retail and also declined by 3.1% in the commercial sector between 2011 and 2020 (Fig. 18).

**Figure 18: Petrol and diesel consumption per trade sector in North West, 2011 - 2020**

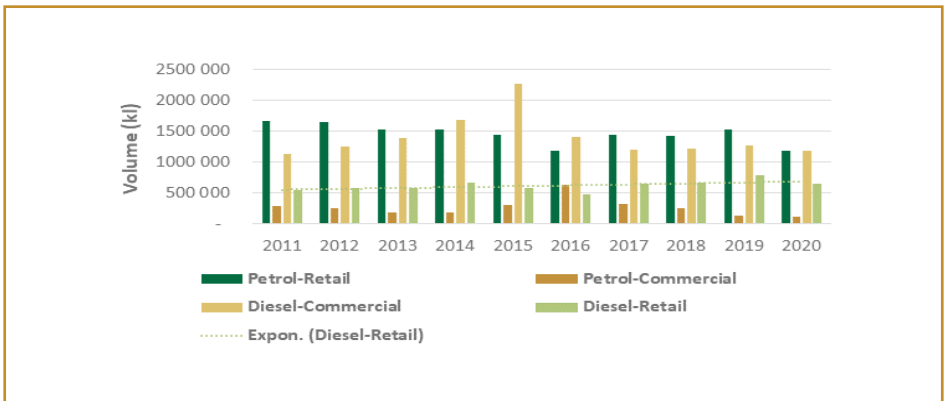


Source: Department of Mineral Resources and Energy (DMRE)

### 4.3.9. Western Cape

Petrol consumption in the Western Cape declined by an annual average rate of 2.6% in the retail sector and decreased by 5% in the commercial sector. Diesel dominated total fuel consumption from 2014 settling at 58.6% of total use in 2020. Diesel consumption in the commercial sector peaked to 2.3 billion litres in 2015 but has since decline reaching 1.2 billion litres in 2020. The use of diesel in the retail sector increased at an average rate of 2.4% per year from 556 million litres in 2011 to 659 million litres in 2020 (Fig. 19).

**Figure 19: Petrol and diesel consumption per trade sector in Western Cape, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

## 4.4. PROVINCIAL PETROL AND DIESEL CONSUMPTION PER GRADE

### 4.4.1. Petrol

The consumption of ULP 93 was dominated by Gauteng despite a share market drop from 55.6% in 2011 to 51.6% in 2020. Gauteng’s 93 ULP use declined from 2.3 billion litres in 2011 to 849 million litres in 2020. Gauteng was followed by Free State, which declined at an average rate of 3.4% annually, and the other biggest consumers, Mpumalanga and North West, also experiencing negative trends (Fig. 20).

**Figure 20: 93 Unleaded Petrol (ULP) consumption per province, 2011 – 2020**

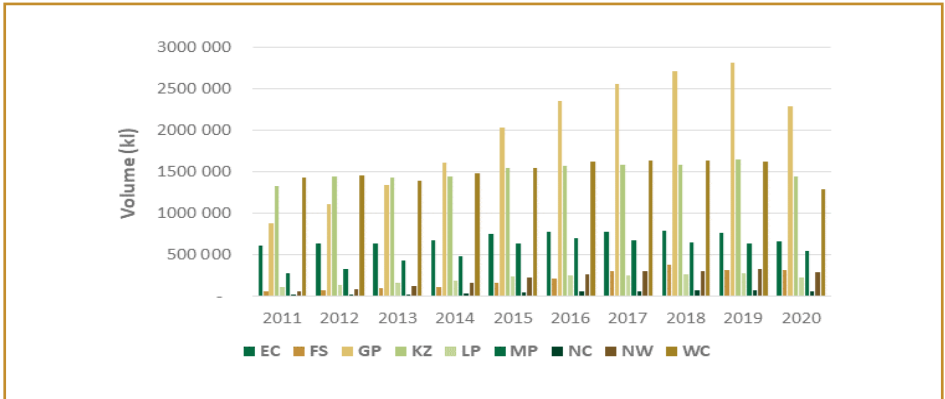


Source: Department of Mineral Resources and Energy (DMRE)

Gauteng’s consumption of ULP 95 grew at an average rate of 12.2% per year, from 881 million litres to 2.3 billion litres between 2011 and 2020. The rest of the inland regions followed a positive trend, with Free State growing at a rate of 20.9% while North West, Limpopo and

Mpumalanga grew by 18.8%, 8.9% and 8.4% per annum, respectively. The Western Cape and Kwa-Zulu Natal had a similar trend both growing annually by an average of 1% while the Eastern Cape grew at an annual average rate of 2.1% (Fig. 21).

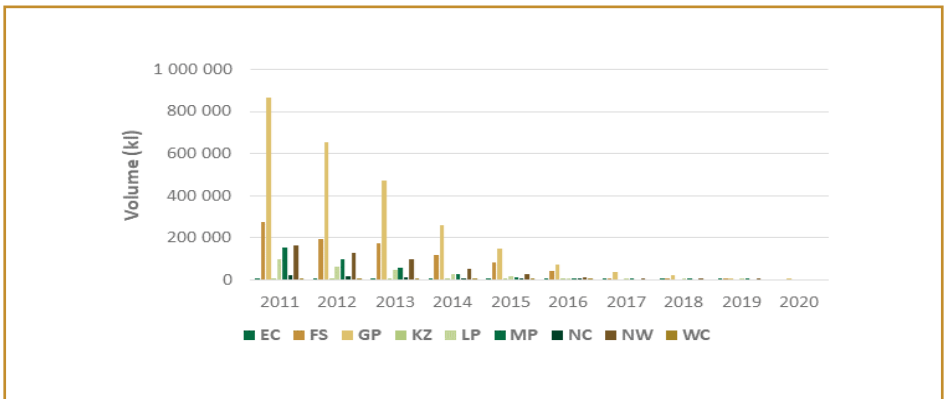
**Figure 21: 95 Unleaded Petrol (ULP) consumption per province, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

The use of 93 LRP octane in the country has drastically dropped in the past 10 years, down from around 1.6 billion litres in 2011 to 2.7 million litres in 2020 (Fig. 22). Consumption mainly came from Gauteng, with other provinces not reporting any consumption at all in the few years.

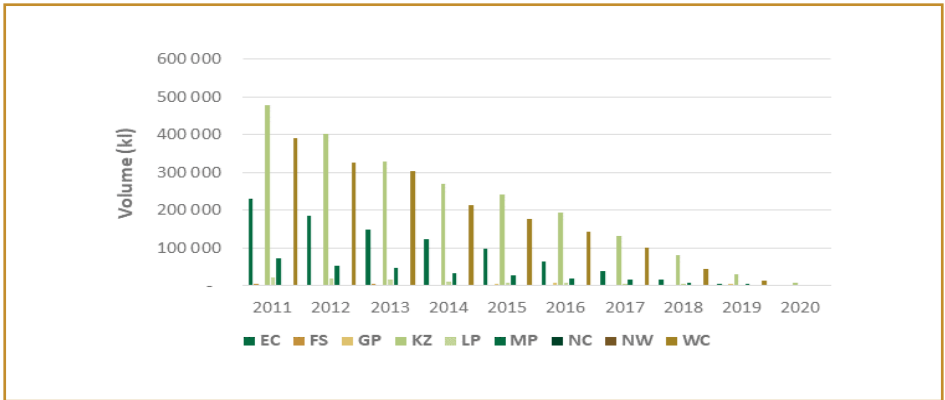
**Figure 22: 93 Lead Replacement Petrol (LRP) consumption per province, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

The 95 LRP grade also declined drastically in the past 10 years, from a total of 1.2 billion litres in 2011 to 19.4 million litres in 2020. The use of the 95 LRP was dominated by Kwa-Zulu Natal and Western Cape, respectively (Fig. 23).

**Figure 23: 95 Lead Replacement Petrol (LRP) consumption per province, 2011 - 2020**

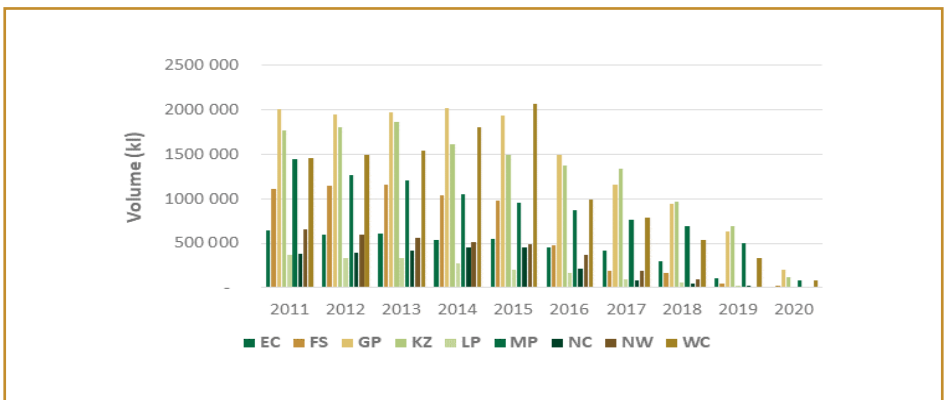


Source: Department of Mineral Resources and Energy (DMRE)

#### 4.4.2. Diesel

The use of diesel with a maximum content of 0.05% was stable from 2011, however dropped from 2015 onwards. Gauteng dominated consumption of the standard grade, however following the drop from 2015 consumption was taken over by Kwa-Zulu Natal in 2017. The rest of the provinces showed a similar trend until the end of the study period (Fig. 24).

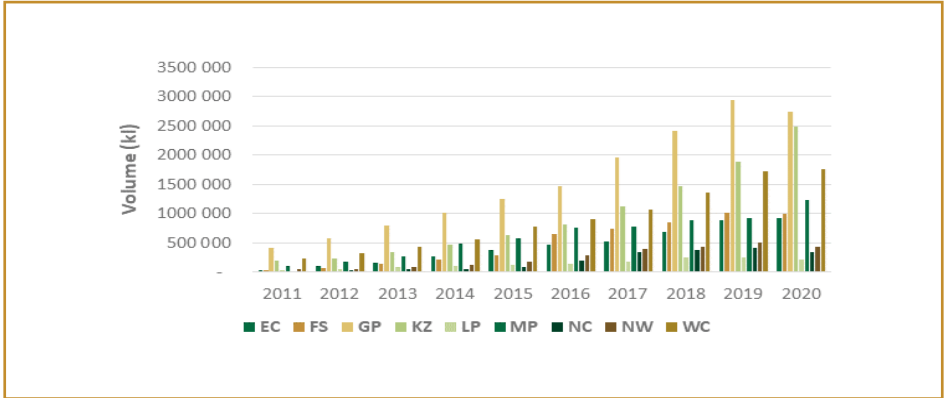
**Figure 24: 500 ppm sulphur diesel consumption per province, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)

The consumption of diesel with the maximum sulphur content of 0.005% was dominated by Gauteng. The demand for diesel with the lower sulphur content in Gauteng increased from 420 million litres to 2.7 billion litres between 2011 and 2020. The rest of the provinces experienced substantial growth, with Western Cape and Kwa-Zulu Natal taking second and third place, respectively (Fig. 25).

**Figure 25: 50 ppm sulphur diesel consumption per province, 2011 - 2020**



Source: Department of Mineral Resources and Energy (DMRE)



## 5. CONCLUSION

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South Africa's petrol and diesel supply was relatively steady prior the disruption caused by the Covid 19 pandemic in 2020. With the country's demand exceeding the domestic supply, the excess demand was met by imports. Diesel was the most imported fuel, from 3.8 billion litres in 2011 to 6.8 billion in 2020 following an increased use of diesel in both the commercial and retail sectors.

The retail sector accounted for majority of the petrol traded, however its market share declined in favour of diesel trade in the sector. Diesel continued to dominate the commercial sector during the study period. Provincially, Gauteng led the consumption of both petrol and diesel followed by Kwa-Zulu Natal and Western Cape, respectively. This was in line with the prevailing contribution of the three provinces to the country's GDP.

Each province displayed different trends in fuel consumption per trade sector. However, petrol was mainly traded in the retail sector for most of the provinces. Fuel in Free State, Mpumalanga, and Northern Cape was mainly consumed in the commercial sector, due to higher mining activities in these regions. The use of lead replacement petrol consumption continued to decline while consumption of diesel with 0.05% maximum sulphur started to decline from 2015.

The Department of Mineral Resources and Energy, empowered by the NDP, aims to ensure sustainability and security of supply of fuel in the country. Also, increasing collaboration between government, business and labour in implementing the NDP will help to realise faster economic growth and job creation, and in turn, will result in an increase in demand for liquid fuels.

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## 7. APPENDIX A: DATA SCOPE

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The report was compiled with data from the following sources:

**Fuel Sales Volume (FSV) data:** The data was collected by DOE from the 7 oil companies in South Africa.

**Petrol and Diesel trade data:** The data was collected by DOE from the South African Revenue Services (SARS).

**SA Gross Domestic Product (GDP) data:** The data was collected by DOE from the South African Reserve Bank.

**DOE Annual Energy Balances:** SA Energy Balances are compiled and published annually by the Department of Mineral Resources and Energy (DMRE).

**Vehicle Sales data:** The data was collected by DOE from the National Association of Automobile Manufactures of South Africa (NAAMSA).

**South African Petrol and Diesel Prices:** The data was published on DOE's website.

**Crude Oil Prices:** The data was collected by DOE from the United States Energy Information Administration (EIA).

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