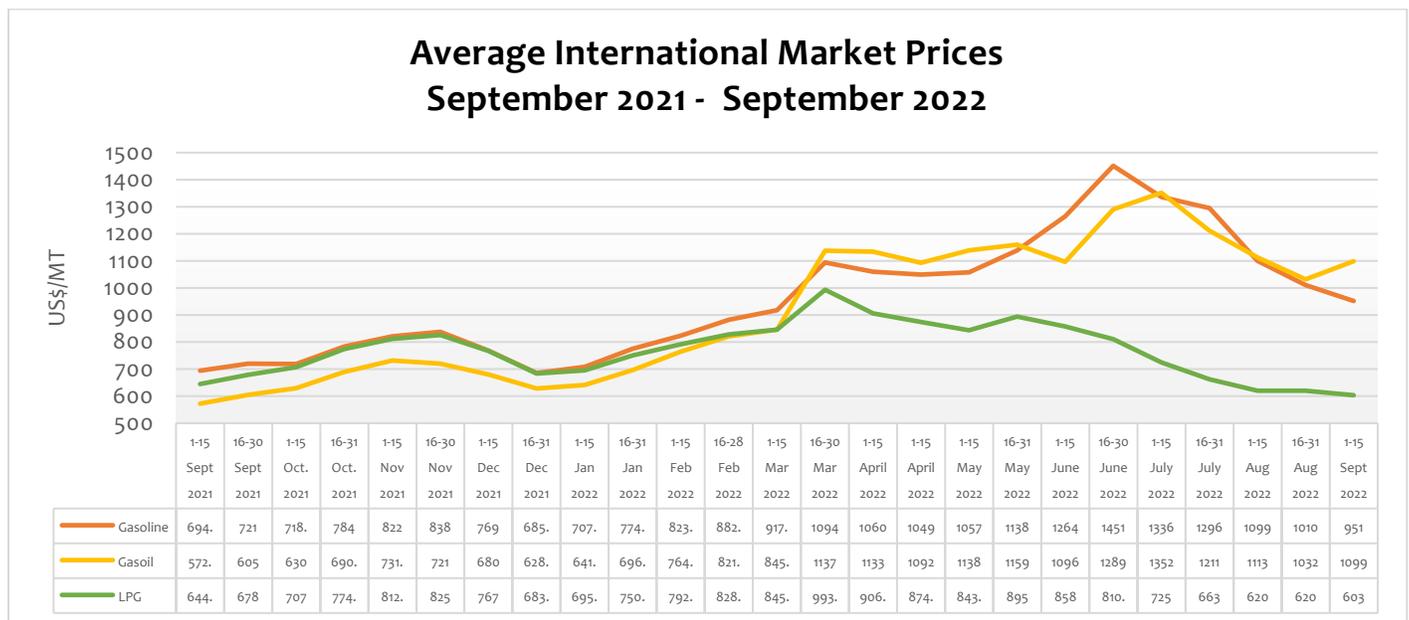


CBOD MARKET OUTLOOK

1st to 15th September 2022 Pricing Window

Refined Products Review and Outlook

The international market prices of refined petroleum products in the 12th to 26th August 2022 international pricing window which are premiums applicable to the selling window of 1st to 15th September 2022, witnessed varied movements as diesel prices when up by 6.5% while that of petrol and LPG rather declined by 5.8% and 2.7% respectively relative to the previous pricing window of 27th July to 11th August 2022. Although concerns of a global economic slowdown and rising interest rates continue to drive down demand for petroleum products, Saudi Arabia’s warning of the possible cutdown in production to correct the price decline as well as the sanctioning of Russian shipments and the partial closedown of a US refinery accounts for the rising diesel prices.



In absolute terms, the international market prices for petrol and LPG plummeted from US\$1,010.15/mt and US\$620.38/kg in the previous window to US\$951.39/mt and US\$603.45/kg, while that of diesel climbed from US\$1032/mt in the previous window to US\$1098.89/mt.

After the international prices of refined petroleum products peaked in June 2022, the subsequent declines in prices have brought the year-to-date changes in prices at the international market to 34%, 71%, and -13% for gasoline, gasoil, and LPG respectively.

Compared to the same period last year (12th to 26th August 2021), the international prices of gasoline and gasoil have increased by 37% and 92%, while that of LPG has tumbled by 6%.

FuFeX30

The Fufex30¹ is a 30-day forward GHS/USD FX rate for the petroleum downstream industry. It is estimated using the average quoted indicative forward forex rate from major oil financing banks adjusted by the covered-interest parity pricing model. The Fufex30 for the first selling window of September (1st to 15th September 2022) is estimated at GHS11.0000/USD, which is the weighted average of quoted indicative 30-day forward forex rate from major oil financing banks as monitored on the market and the Bank of Ghana FX auction rate to the BIDECS.

SUMMARY REPORT OF BANK OF GHANA FX AUCTIONS TO BIDECS		
Window	Percentage Offered	Auction FX Rate (GHS/USD)
1 - 15 Apr 2022	85%	7.3886
16 - 30 Apr 2022	50%	7.4995
1 - 15 May 2022	50%	7.5014
16 - 31 May 2022	29%	7.5547
1 - 15 June 2022	24%	7.6144
16 - 30 June 2022	21%	7.7451
1 - 15 July 2022	21%	7.9252
16 - 31 July 2022	27%	7.9756
1 - 15 Aug 2022	42%	8.2620
16 - 31 Aug 2022	29%	8.8192
1 – 15 Sept 2022	30%	9.7554

The Ex-refinery Price Indicator (Xpi)

The Ex-ref price indicator (Xpi) is computed using the referenced international market prices usually adopted by BIDECS, factoring the CBOD economic breakeven benchmark premium for a given window and converted from USD/mt to Ghs/ltr using the *FuFex30*.

¹ The Fufex30 is a 30-day Ghs/USD forward fx rate used as a benchmark rate for BIDECS ex-ref price estimations.

$$XPI = \frac{(\text{International Market Price} + \text{CBOD Benchmark Premium}) \times \text{Fufex30}}{\text{Conversion Factor}}$$

Ex-ref Price Effective 1st to 15th September 2022

PRICE COMPONENT	Petrol	Diesel	LPG
Average World Market Price (US\$/MT)	951.39	1,098.89	603.45
CBOD Benchmark Breakeven Premium (US\$/MT)	100	230	170
FuFex30 (GHS/USD)	11.0000	11.0000	11.0000
Volume Conversion Factor (ltr/mt)	1324.50	1183.43	1000
Ex-ref Price (Ghs/ltr)	8.7318/Ltr	12.3521/Ltr	8.5080/kg
Price Tolerance	+1%/-1%	+1%/-1%	+1%/-1%

Taxes, Levies, and Regulatory Margins

Taxes, levies, and regulatory margins for the 16th to 31st August 2022 selling window edged up by Ghp7/Lt for both petrol and diesel, and that of LPG edged up by Ghp9/kg. The National Petroleum Authority reviewed the Unified Petroleum Pricing Fund (UPPF) Margin effective 16th August 2022 and advised Oil Marketing Companies (OMCs) and Liquefied Petroleum Gas Marketing Companies (LPGMCs) to apply the new margins in their price build-up effective 16th August 2022. Therefore, total taxes, levies, and regulatory margins for the window under consideration rose to Ghp244/ltr for petrol, Ghp242/ltr for diesel, and Ghp162/kg for LPG, accounting for 22%, 18%, and 15% of ex-pump prices of petrol, diesel, and LPG respectively.

Window 16th to 31st August 2022

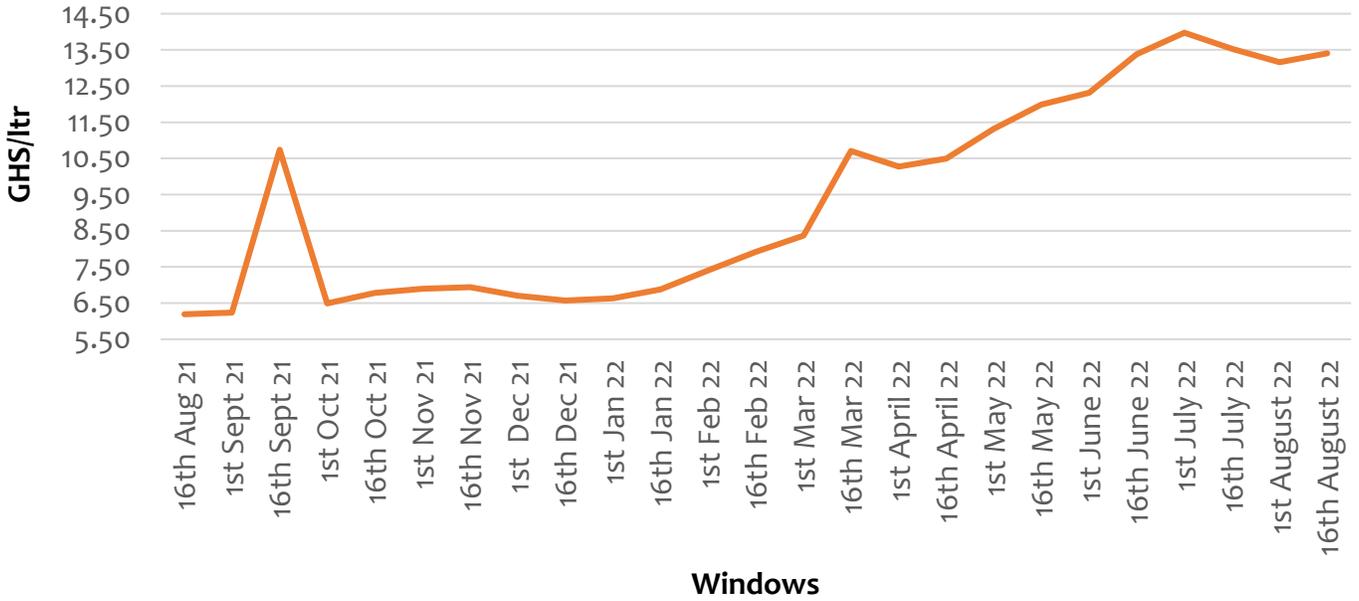
TRM Components	Gasoline (GHp/ltr)	Gasoil (GHp/ltr)	LPG (GHp/KG)
ENERGY DEBT RECOVERY LEVY	49	49	41
ROAD FUND LEVY	48	48	-
ENERGY FUND LEVY	1	1	-
PRICE STABILISATION & RECOVERY LEVY	16	14	14
SANITATION & POLLUTION LEVY	10	10	-
ENERGY SECTOR RECOVERY LEVY	20	20	18
PRIMARY DISTRIBUTION MARGIN	7	7	-
BOST MARGIN	7	7	-
FUEL MARKING MARGIN	4	4	-
SPECIAL PETROLEUM TAX	46	46	48
UPPF	36	36	36
DISTRIBUTION/PROMOTION MARGIN	-	-	5
TOTAL	244	242	162

OMC Pricing Performance: 16th to 31st August 2022

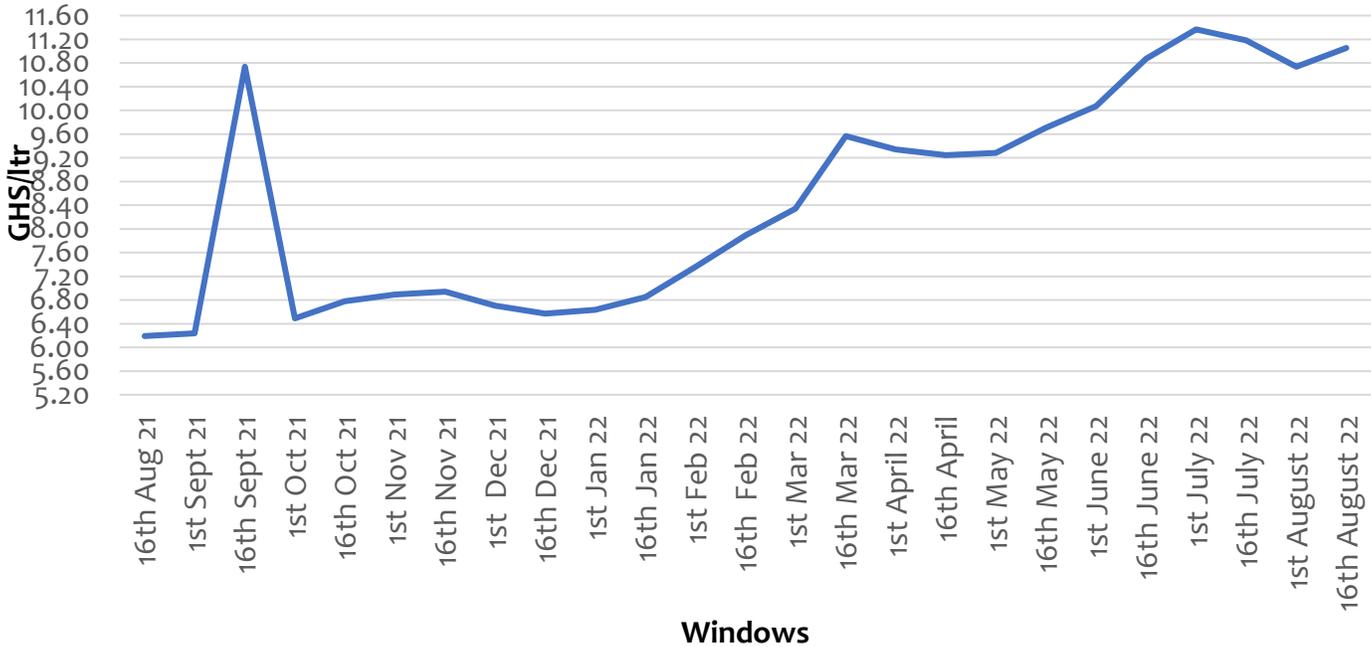
Pump prices for petrol and diesel within the 16th to 31st August 2022 selling window rose slightly by an average of 3% and 2% respectively relative to the previous window (1st to 15th August 2022) pump prices. The rise in the pump prices in the window was attributable to the sharp depreciation of the cedi against the US dollar. Although the international prices of petrol and diesel fell within the window, similar declines were not recorded at the pumps due to the sharp depreciation of the cedi, which is a major factor in the Ex-refinery Price Build-Up. Prices of petrol and diesel fell on the international market due to growing concerns of global economic slowdowns and Covid-19 related lockdowns in China, which are softening fuel demand.

The pump price of petrol and diesel soared from an average of GHS10.738/ltr and GHS13.156/ltr in the previous selling window (1st to 15th August 2022) to GHS11.052/ltr to GHS13.406/ltr. On a year-on-year basis, pump prices of petrol and diesel experienced about 78% and 117% increases over the period. This is also an indication that from the beginning of the year until now, the ex-pump prices of gasoline and gasoil recorded an average of 67% and 102% increases respectively, with gasoline and gasoil prices both increasing from GHS6.637/ltr in the first selling window of 2022 (1st-15th January) to GHS11.052/ltr and GHS13.406/ltr respectively in the second selling window of August 2022 (16th – 31st August).

Year-on-Year Average Diesel Ex-Pump Prices 2021-2022

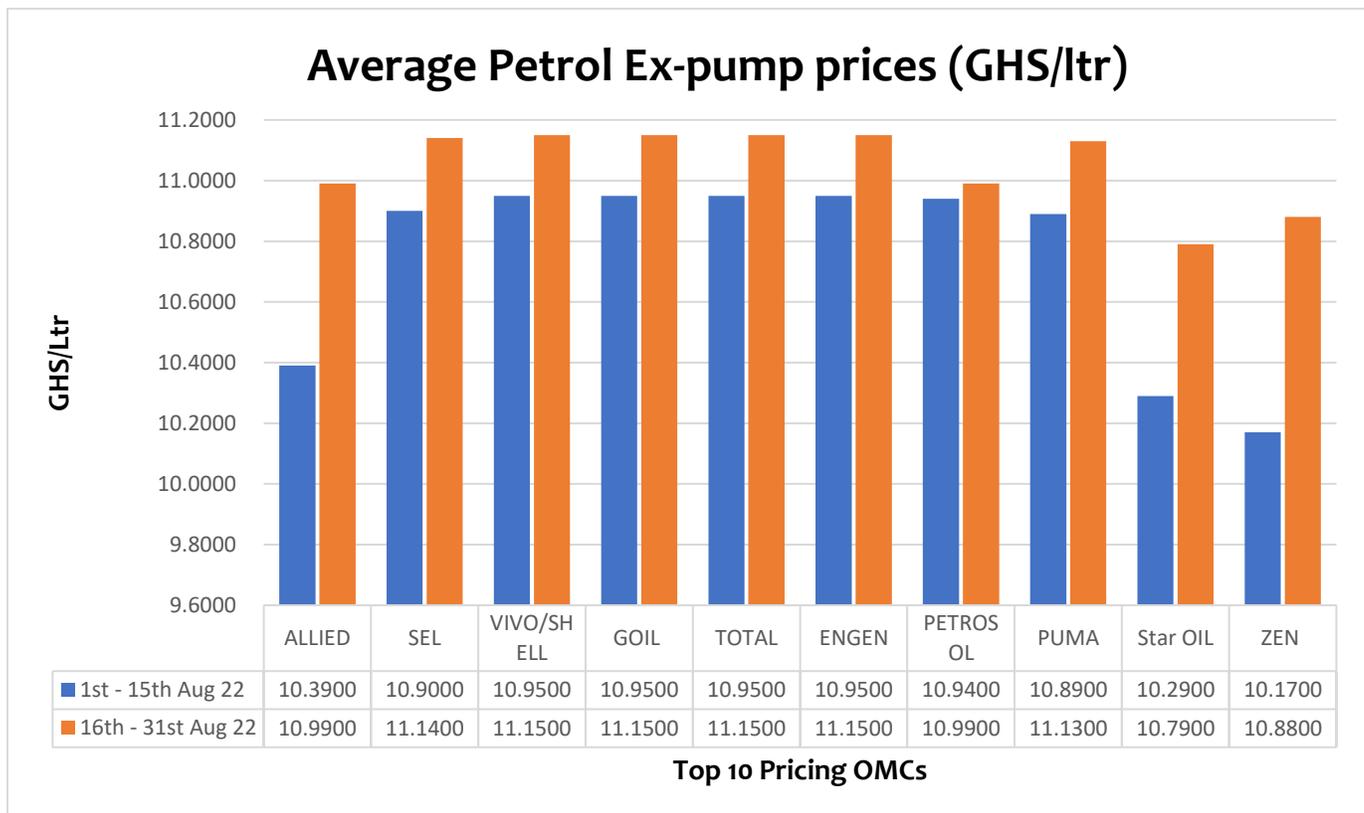


Year-on-Year Average Petrol Ex-Pump Prices 2021-2022



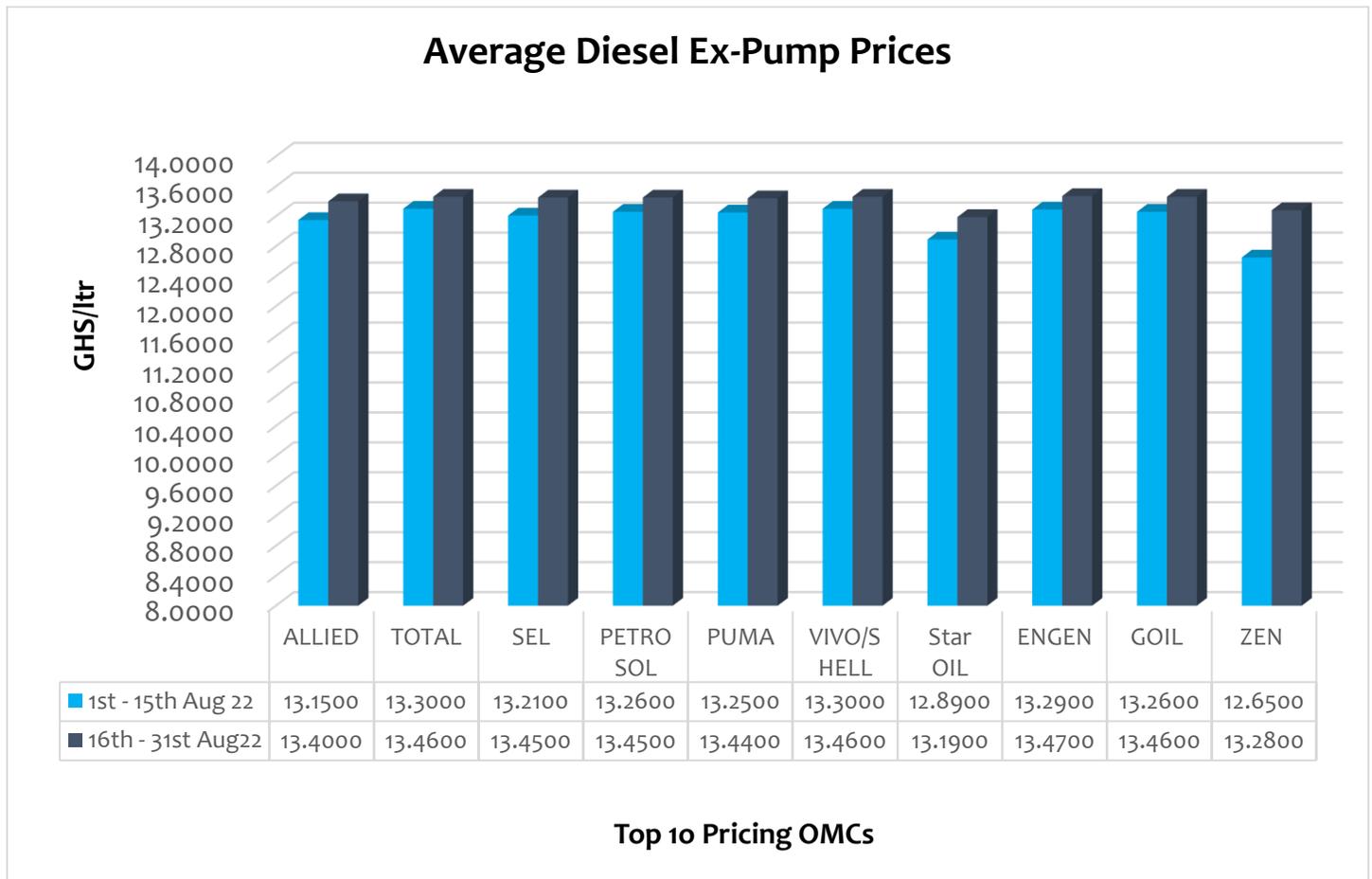
Average Petrol Ex-pump prices (GHS/ltr)

OMC	1st - 15th August 2022	16th - 31st August 2022	% Change
ALLIED	10.3900	10.9900	5.8%
SEL	10.9000	11.1400	2.2%
VIVO/SHELL	10.9500	11.1500	1.8%
GOIL	10.9500	11.1500	1.8%
TOTAL	10.9500	11.1500	1.8%
ENGEN	10.9500	11.1500	1.8%
PETROSOL	10.9400	10.9900	0.5%
PUMA	10.8900	11.1300	2.2%
Star OIL	10.2900	10.7900	4.9%
ZEN	10.1700	10.8800	7.0%
AVERAGE	10.7380	11.0520	2.9%



Average Diesel Ex-pump prices (GHS/ltr)

OMC	1st - 15th August 2022	16th - 31st August 2022	% Change
ALLIED	13.1500	13.4000	1.9%
TOTAL	13.3000	13.4600	1.2%
SEL	13.2100	13.4500	1.8%
PETROSOL	13.2600	13.4500	1.4%
PUMA	13.2500	13.4400	1.4%
VIVO/SHELL	13.3000	13.4600	1.2%
Star OIL	12.8900	13.1900	2.3%
ENGEN	13.2900	13.4700	1.4%
GOIL	13.2600	13.4600	1.5%
ZEN	12.6500	13.2800	5.0%
AVERAGE	13.1560	13.4060	1.9%



Weekly Petroleum Stock

The total petroleum stocks available in the country at the beginning of the week, Monday 29th August 2022, comprised Gasoline, Gasoil, LPG, ATK, Kerosene, Premix, and RFO. The breakdown of the total stocks and expected weekly consumption in the country is presented below.

Product	Total Stocks (Million Lts)	Forecasted Weekly Consumption (Million Lts)	Week-to-Last	Cargoes at anchorage (Million Lts)	Week-to-Last including cargoes at anchorage
Diesel	244.2	53.0	4 weeks 3 days	124.4	7 weeks
Petrol	128.3	49.0	2 weeks 3 days	51.5	3 weeks 3 days
LPG*	14.2	7.5	2 weeks	2.0	2 week 2 days
ATK	34.4	5.0	7 weeks	12.4	9 weeks 2 days
Kero**	3.7	0.15	24 weeks 4 days	0	24 weeks 4 days
Premix	0.68	2.1	2 days	0	2 days
RFO	0.67	1.7	2 days	0	2 weeks

**LPG figures are in million kilograms *High Kerosene stocks are from previous productions by TOR / Woodfields*

Expected Cargoes in Week 35 (29th August – 2nd September 2022)

A total of about 175.9 million liters of petroleum products comprising gasoline and gasoil are expected this week. About 124.38 million liters of gasoil and 51.52 million liters of gasoline are expected. Currently, 4 vessels are at anchorage and ready to discharge.

Atuabo Gas Processing Plant

The Gas Processing Plant (GPP) at Atuabo is currently producing LPG at an average rate of about 251MT/day.

Tema Oil Refinery

The RFCC unit at TOR remains shut down due to reconstruction whiles CDU is also shut down due to lack of Crude Oil.

Liquefied Petroleum Gas (LPG) Imports

Epic Beata is cleared to discharge 2,000mt of LPG on behalf of Alfapetro.

Aviation Turbine Kerosene (ATK) Imports

Caliope is expected to arrive with 10,000mt of ATK.

Expected Cargoes in Week 35 (29th August to 2nd September 2022)

NO.	BIDEC	Laycan	Volume Diesel (Lts)	Volume Petrol (Lts)	Vessel Name	Status
1	Glencore	TBC	-	51,523,050	Sea Clipper	Anchorage
2	Trafigura	TBC	39,053,190		Esther	Anchorage
3	Glencore	TBC	39,053,190		Baltic Mariner	Anchorage
4	BP	TBC	46,272,113		Tom Strength	Anchorage
Total			124,378,493	51,523,050		
Expected weeks to last			2 Weeks 2 days	1 week		

Source: National Petroleum Authority