



Investor Presentation

Disclaimer

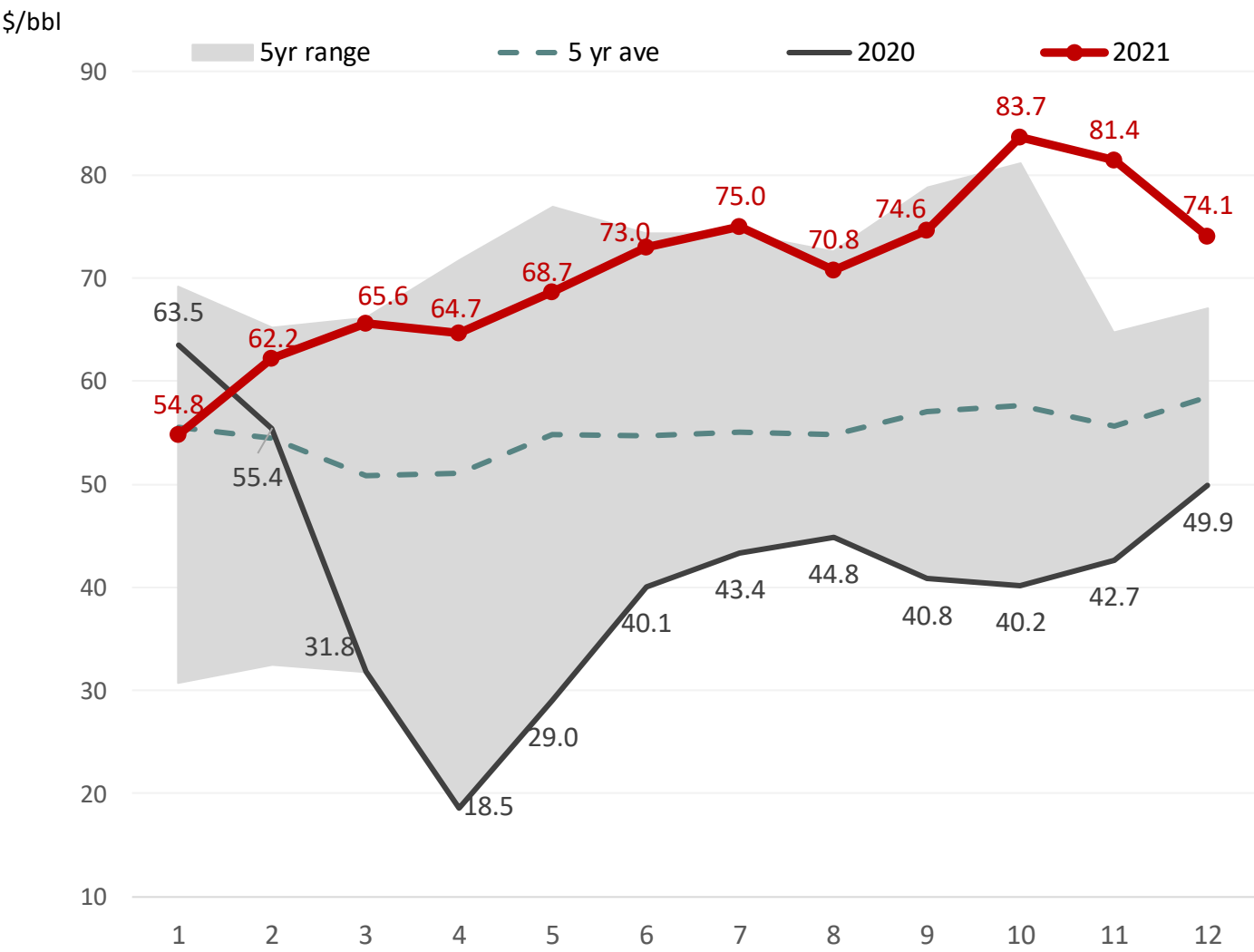
This presentation contains forward-looking statements that reflect the Company management's current views with respect to certain future events. Although it is believed that the expectations reflected in these statements are reasonable, they may be affected by variables and changes in underlying assumptions that could cause actual results to differ materially.

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Refining Market

Brent Crude Prices



- + OPEC ++ production cut
- + Impact of Iran & Venezuela sanctions
- + Escalating regional tension
- + Covid 19 vaccine discovery

- Concerns on global economic development
- Covid-19 related demand drop
- Storage capacity fill up

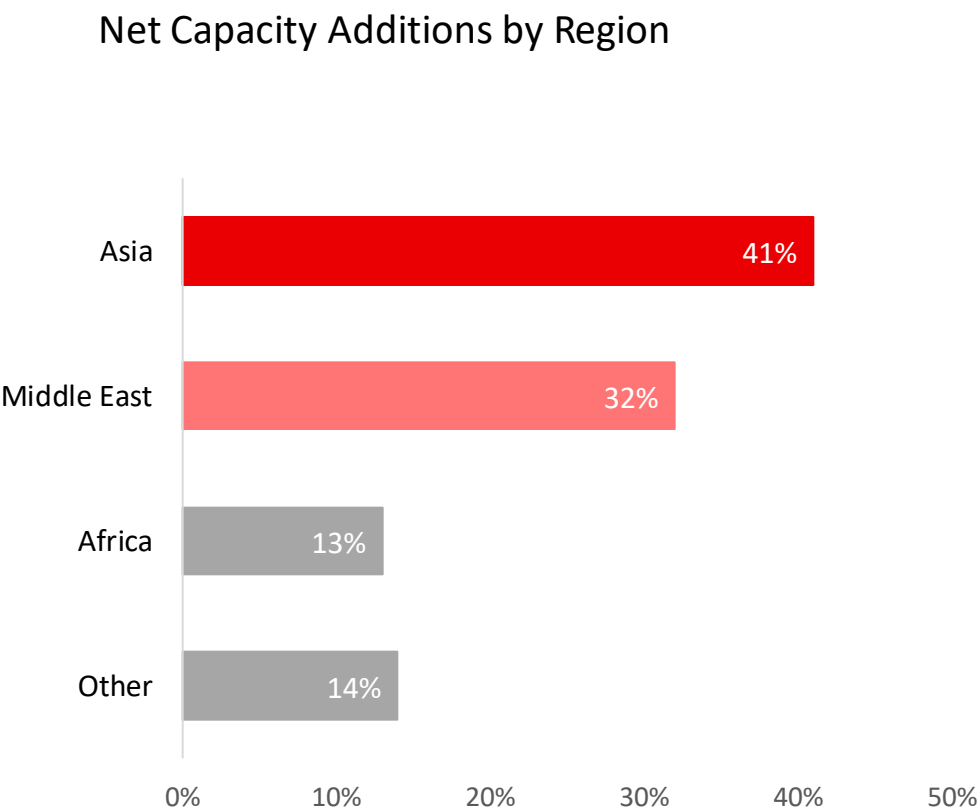
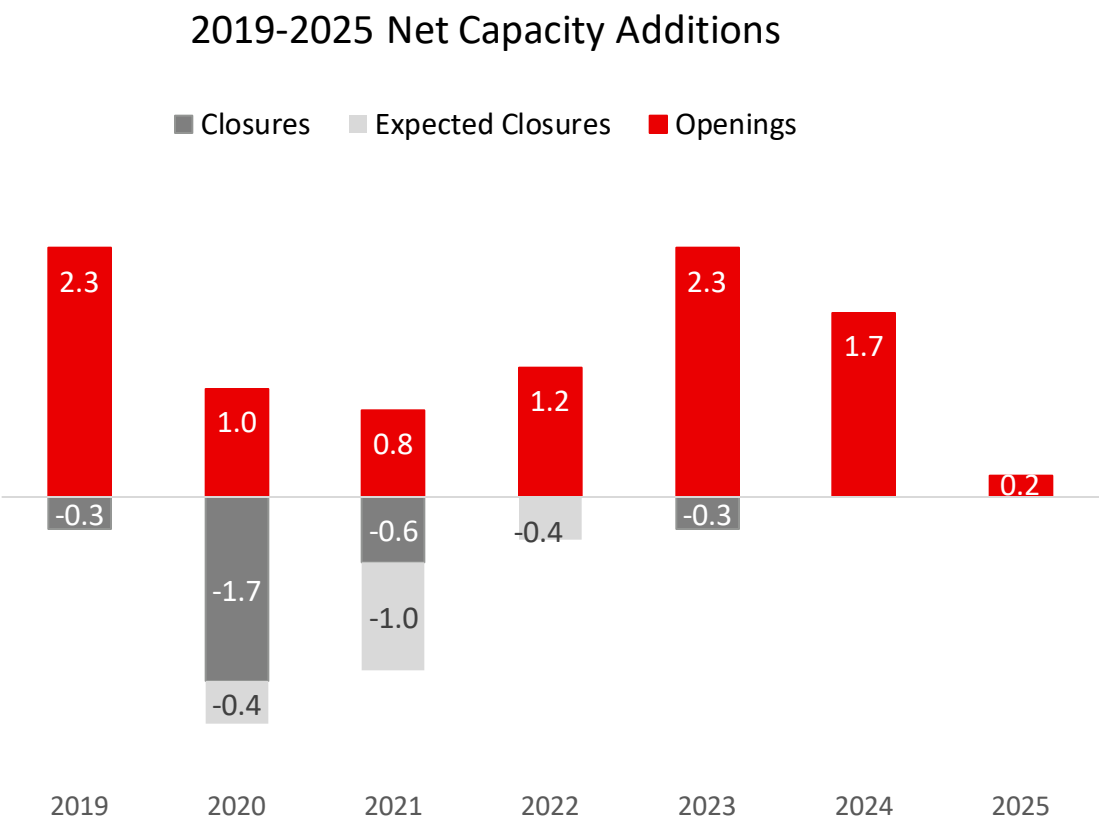
Year	Average Brent Prices (\$/bbl)
2016	43.7
2017	54.3
2018	71.0
2019	64.3
2020	41.7
2021	70.7

data as 31 December 2021

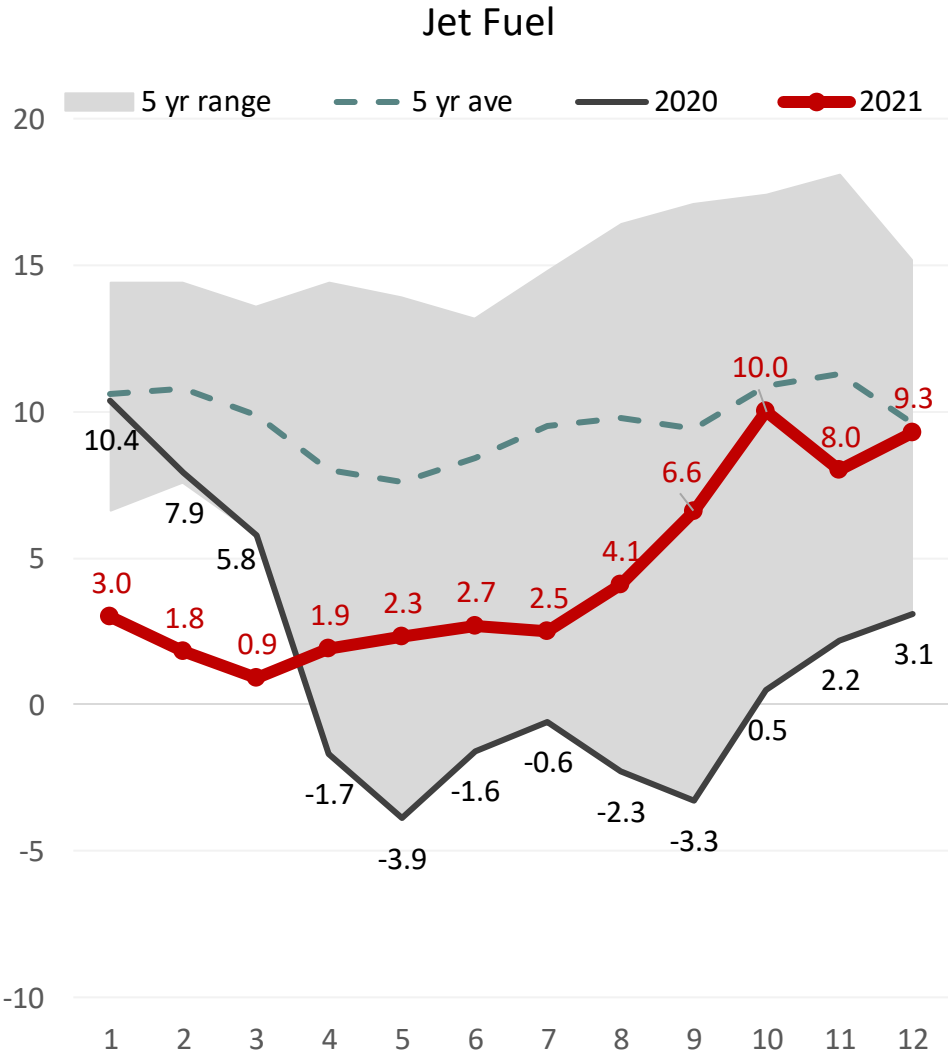
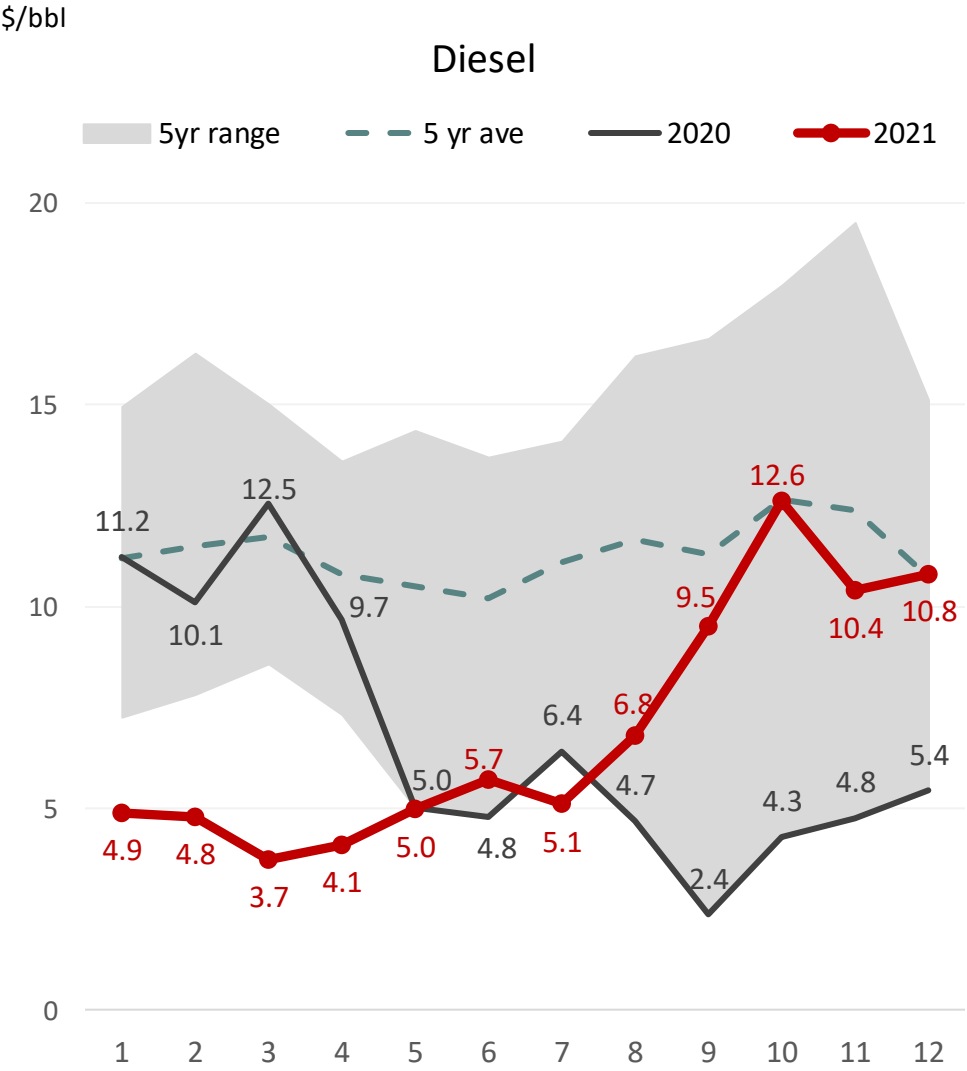
Global Refinery Capacity Changes

Expectations until 2025:

- 73% of net capacity additions will come from Asia & Middle East
- Net capacity and demand in Europe will remain roughly unchanged

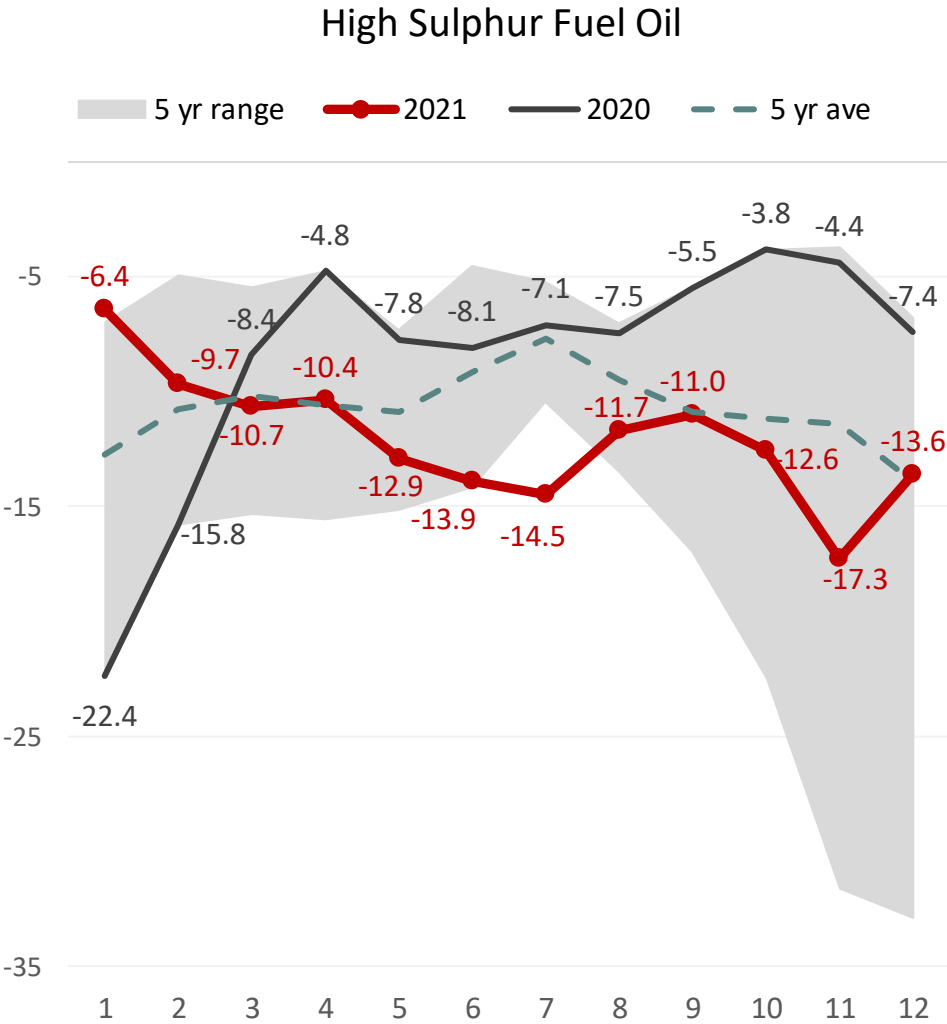
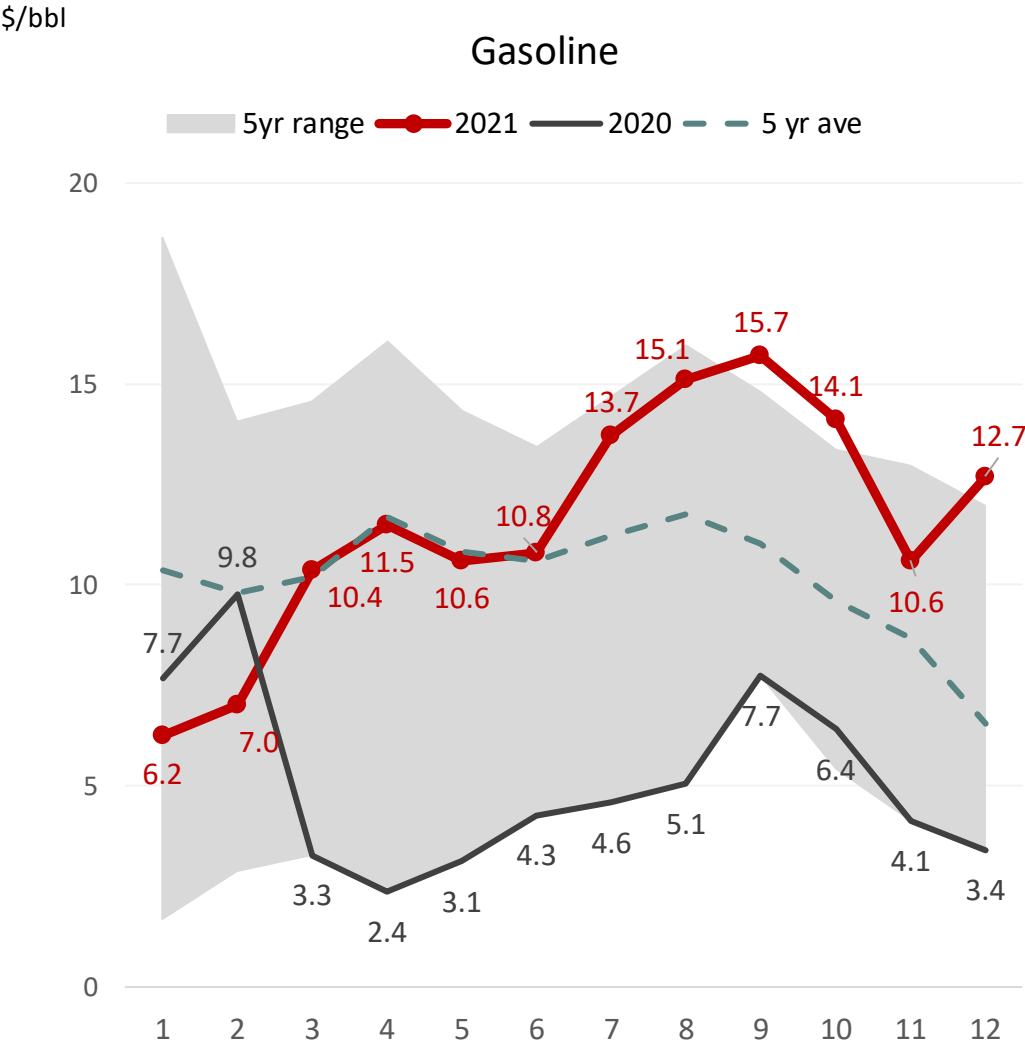


Middle Distillate Cracks



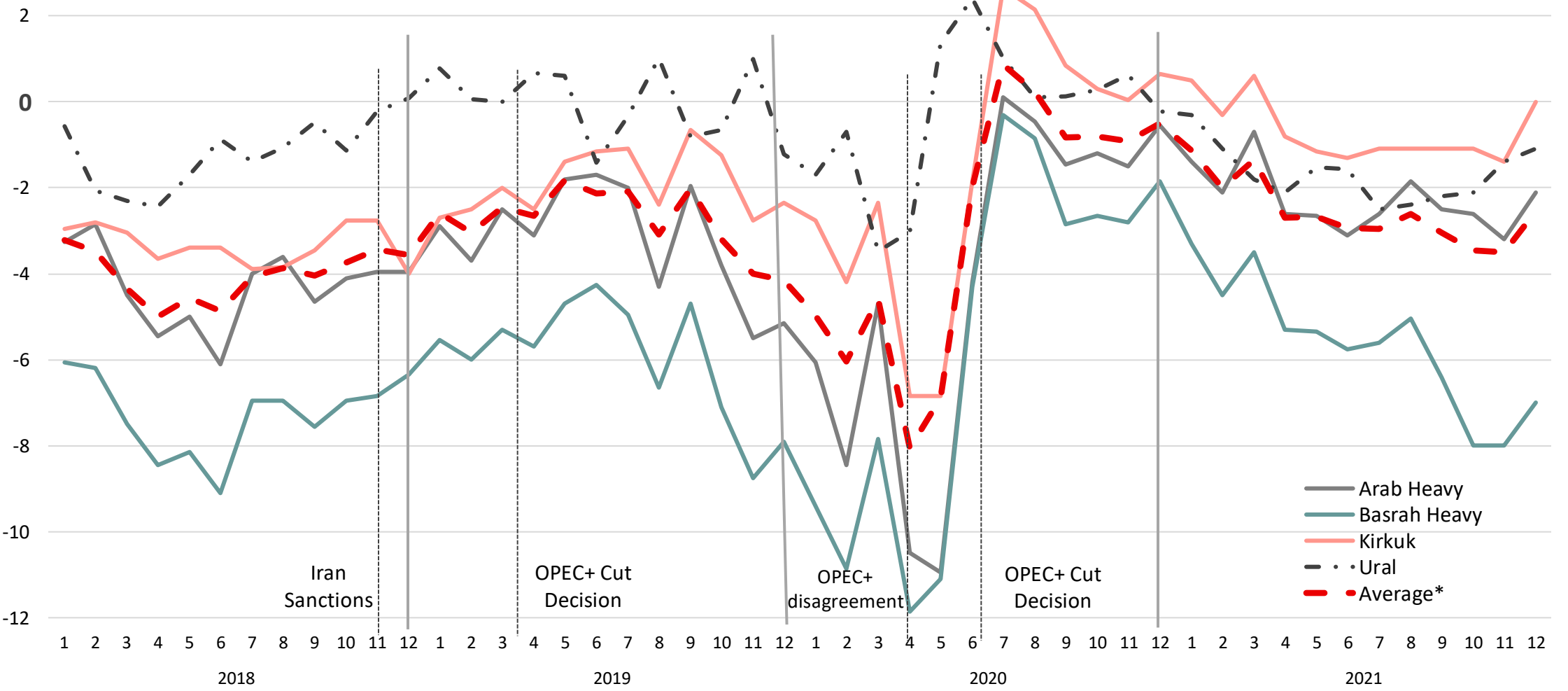
data as 31 December 2021

Gasoline and High Sulphur Fuel Oil Cracks



data as 31 December 2021

Heavy Crude Price Differentials to Brent (\$/bbl)



*Simple average of listed differentials

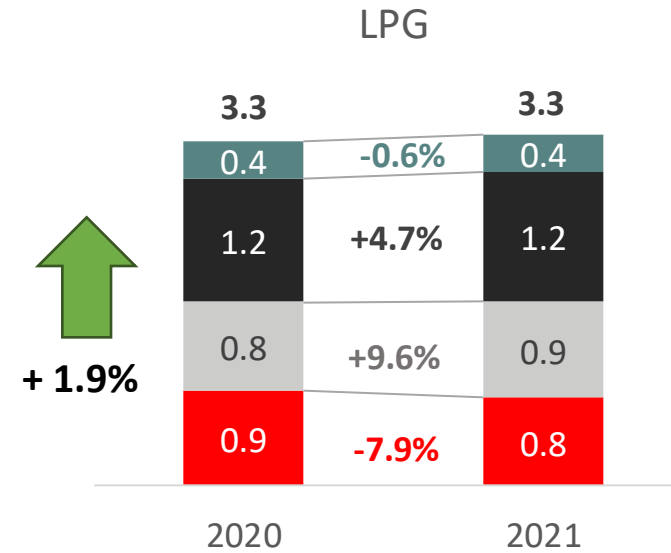
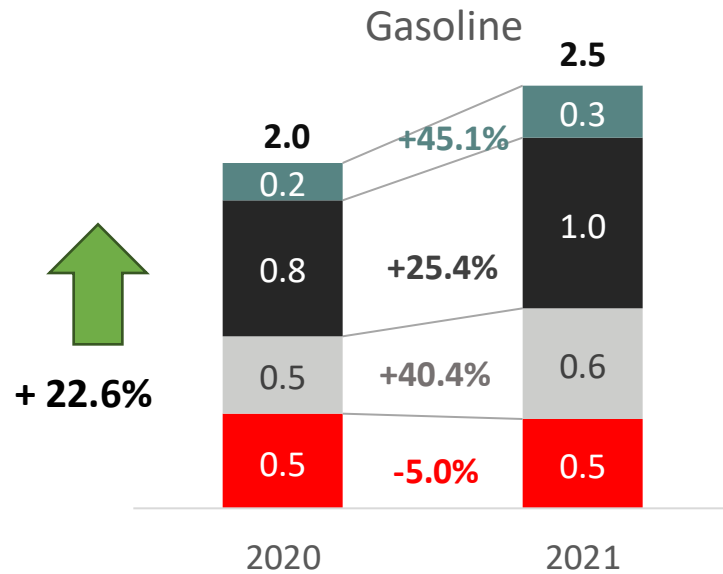
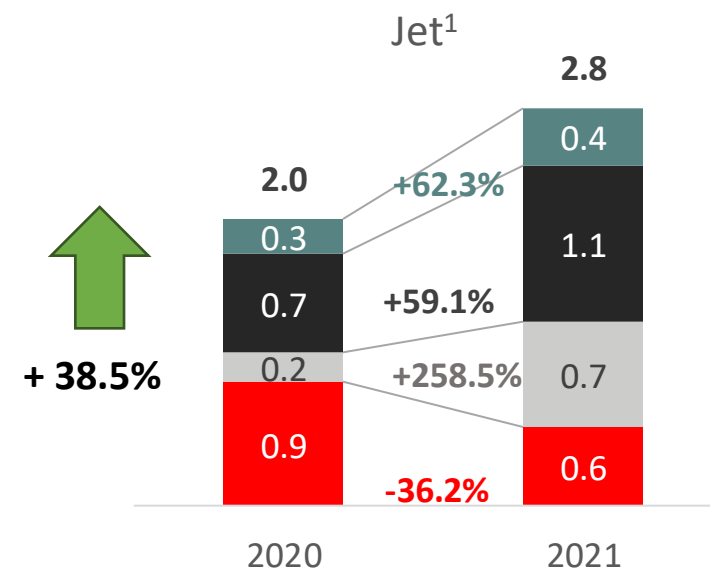
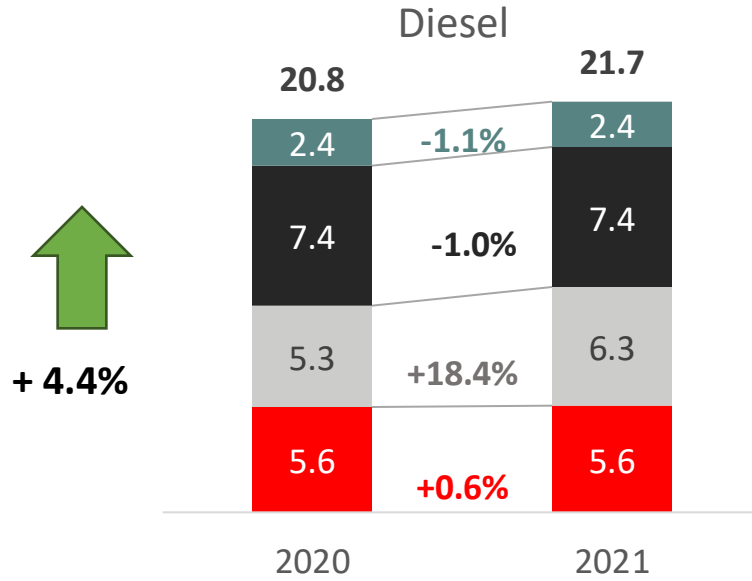


Turkish Market

Turkish Market, 10M 2021

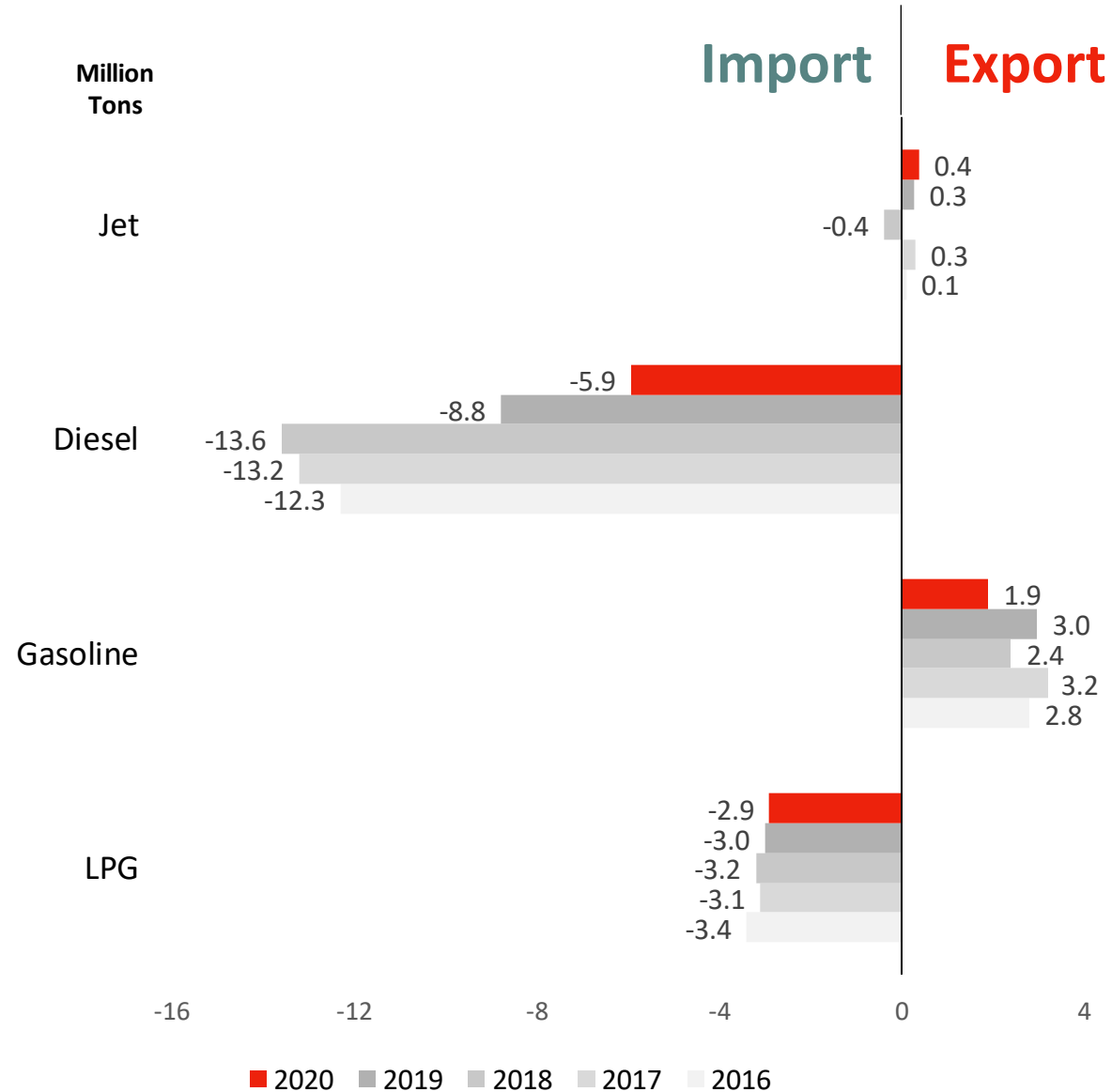
October Q3 Q2 Q1

Million
Tons

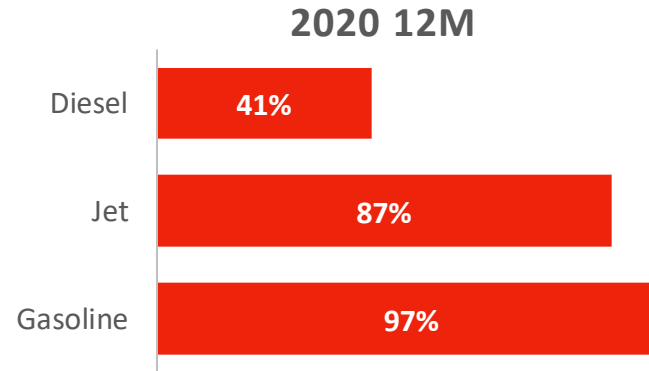


¹Transit flight consumption included

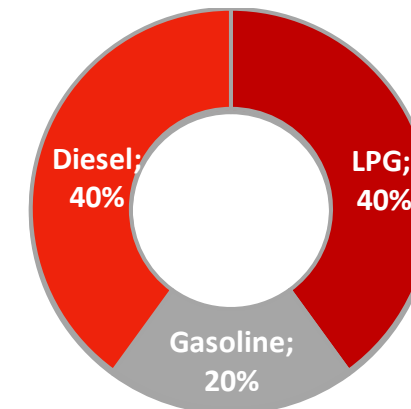
Turkey's Net Import / Export Balance



Tüpraş' Market Share



Fuel Choice of Passenger Cars

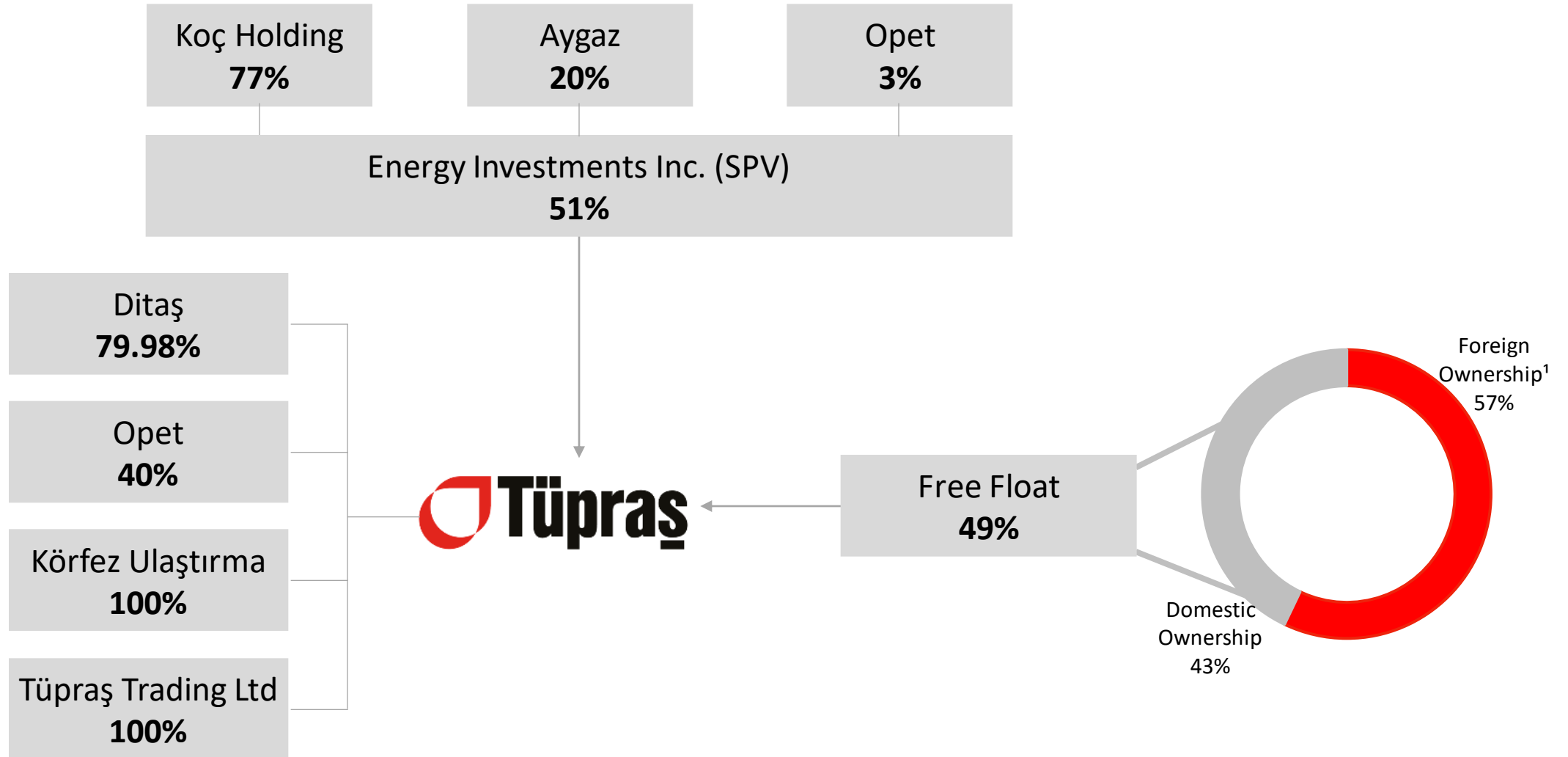




Company Overview

Tüpraş Shareholder Structure

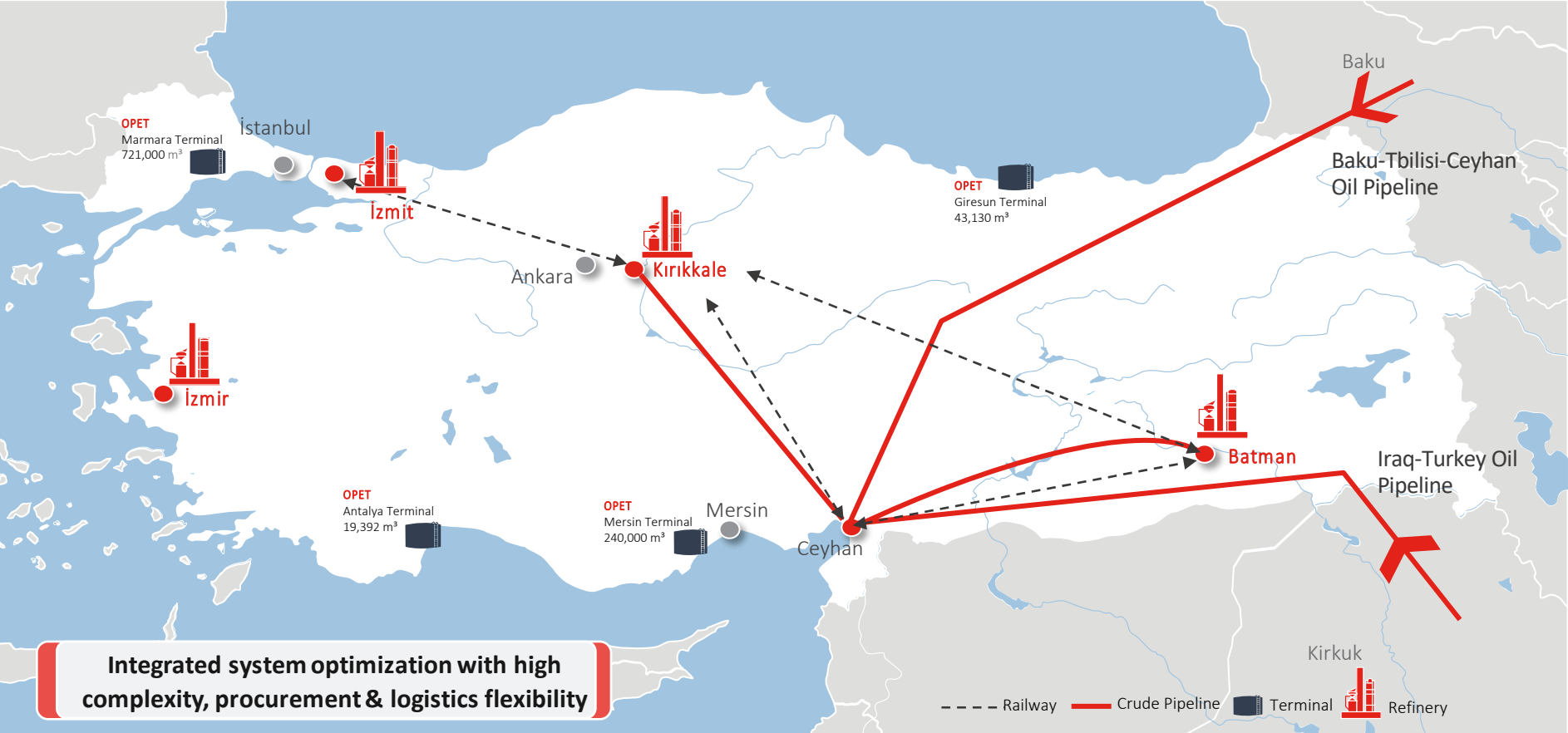
Tüpraş is Turkey's biggest industrial company and leading refiner.



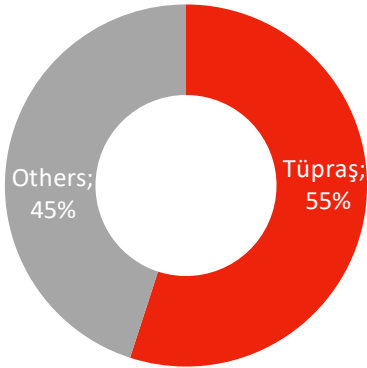
¹As of December 31st, 2021

Tüpraş' Refining Assets & Distribution Network

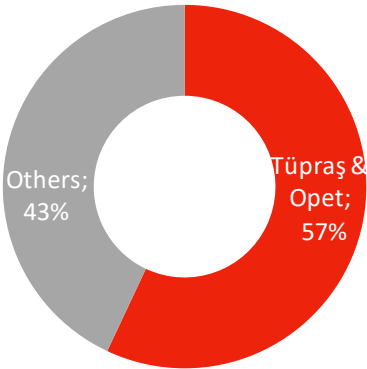
	İzmit	İzmir	Kırıkkale	Batman	Total
Capacity (mn tons)	11.3	11.9	5.4	1.4	30
Nelson Complexity	14.5	7.66	6.32	1.83	9.5
Storage Capacity (mn m³)	3.0	2.5	1.3	0.3	7.0



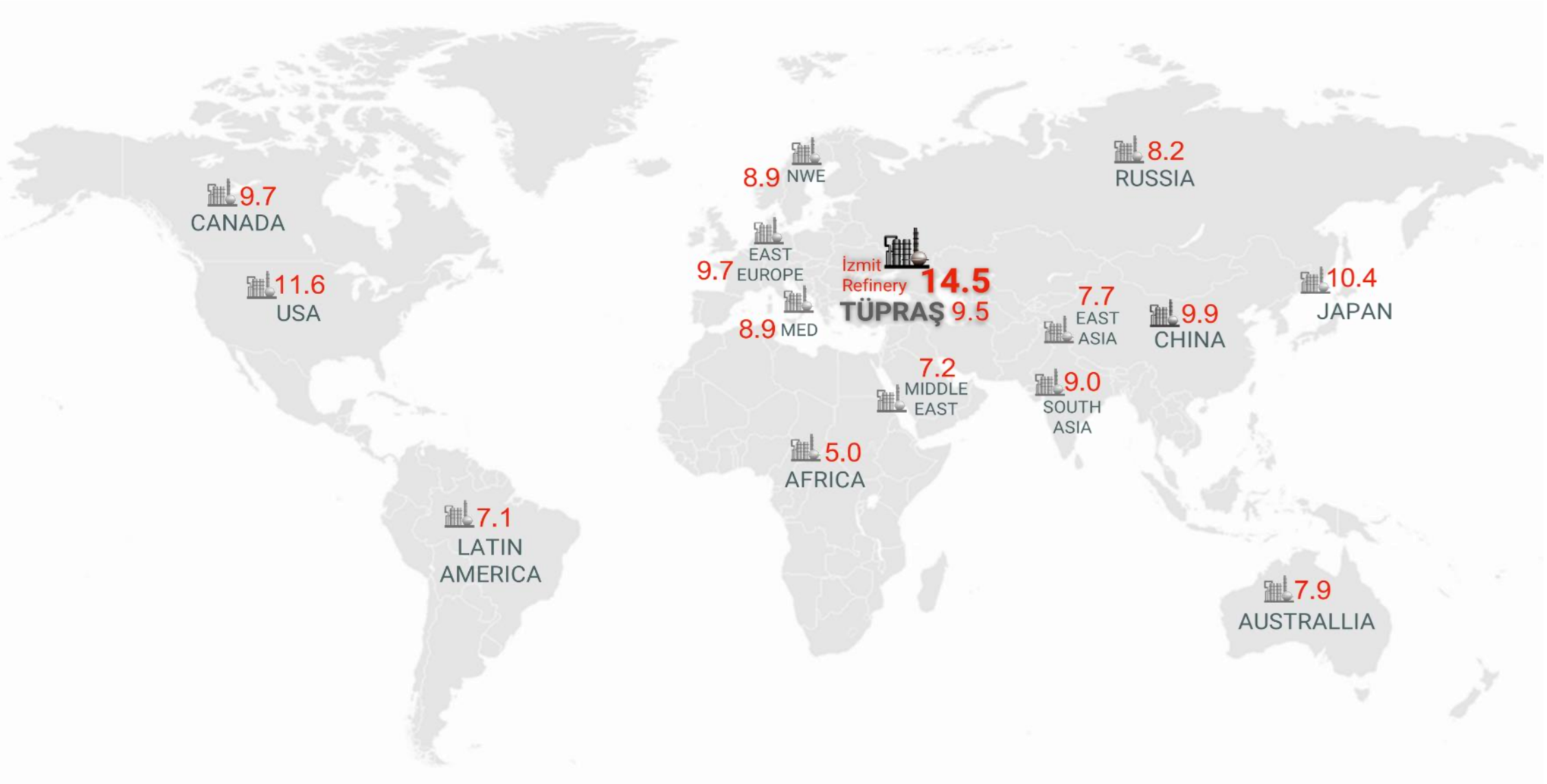
Turkey's petroleum product needs



Turkey's Storage Capacity



Nelson Complexity of Refining Companies



Tüpraş Subsidiaries

OPET, Distribution, Tüpraş Share: 40%



- 1,804 stations as of 30 November 2021
- As of October 2021 Market share: 17.6% in white products; 14.9% in black products

Körfez Ulaştırma, Railway Transport, Tüpraş Share: 100%



- ~7% share in Turkish rail freight market
- ~1.5 mn ton of product and semi-product carried in 2020.
- Operates with 10 diesel locomotives and over 600 cistern wagons

DİTAŞ, Marine Transport, Tüpraş Share: 79.98%



- 3 Crude Oil Tanker: 479,765 DWT
- 1 Crude Oil - Product Tanker: 51,532 DWT
- 10 Product Tanker: 171,453 DWT

Tüpraş Trading UK, Trading, Tüpraş Share: 100%



- Trading Office in London is important for wider integration with the global energy landscape by allowing to:
 - Closely monitor international market opportunities
 - Support import and export operations
 - Create additional value from supply chain and sales activities

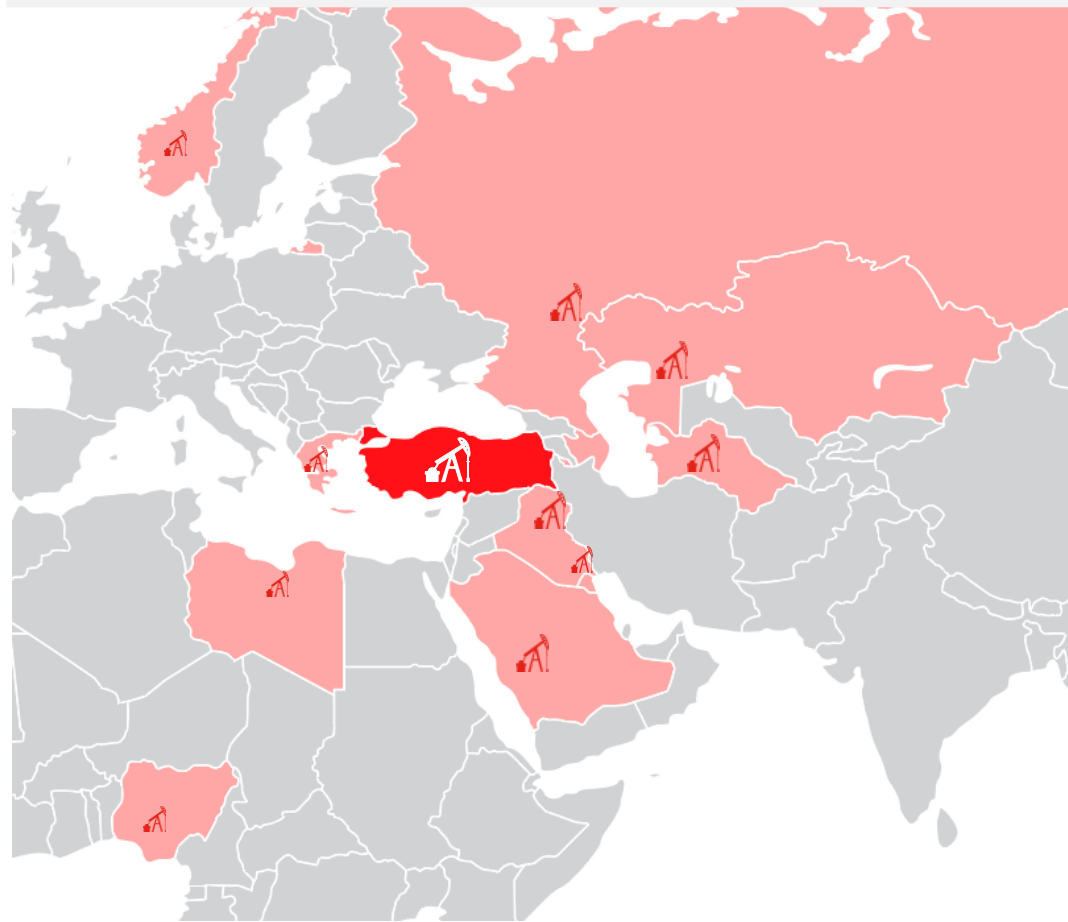


Operations

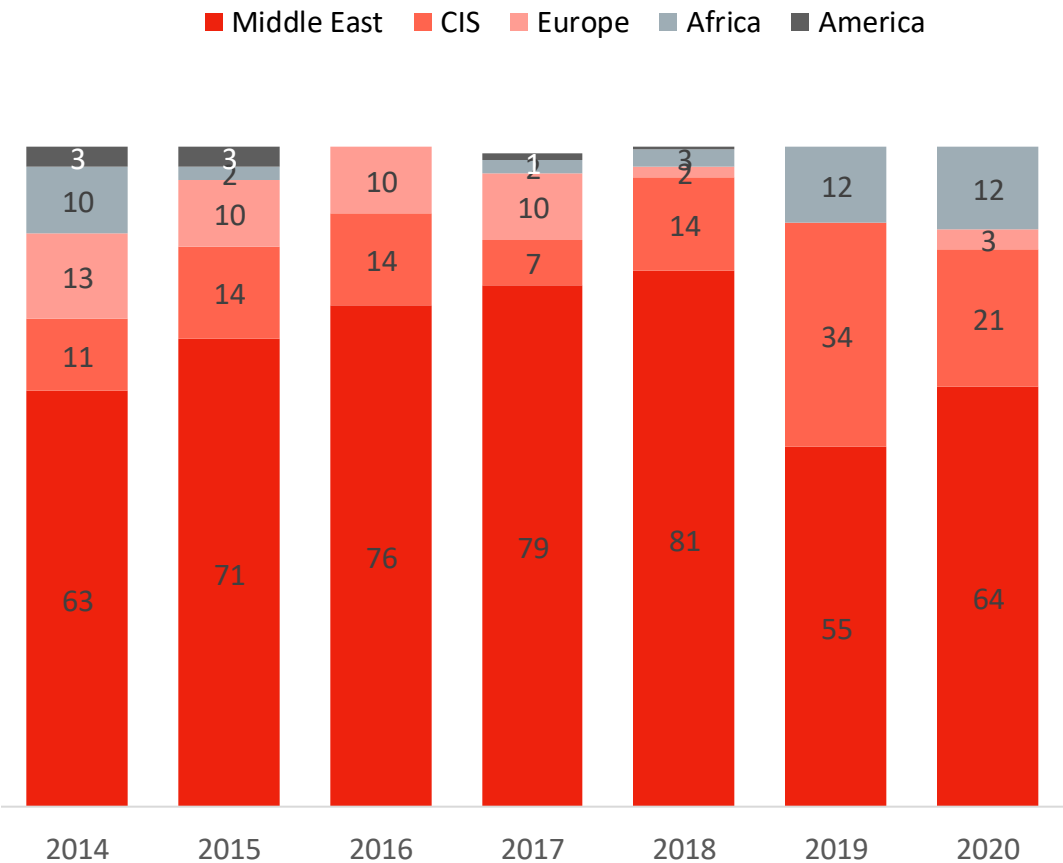
Crude Suppliers of Tüpraş

In 2020, Tüpraş purchased 18 different types of crude from 11 countries with gravities ranging between 20-47 API.

Main Crude Suppliers in 2020

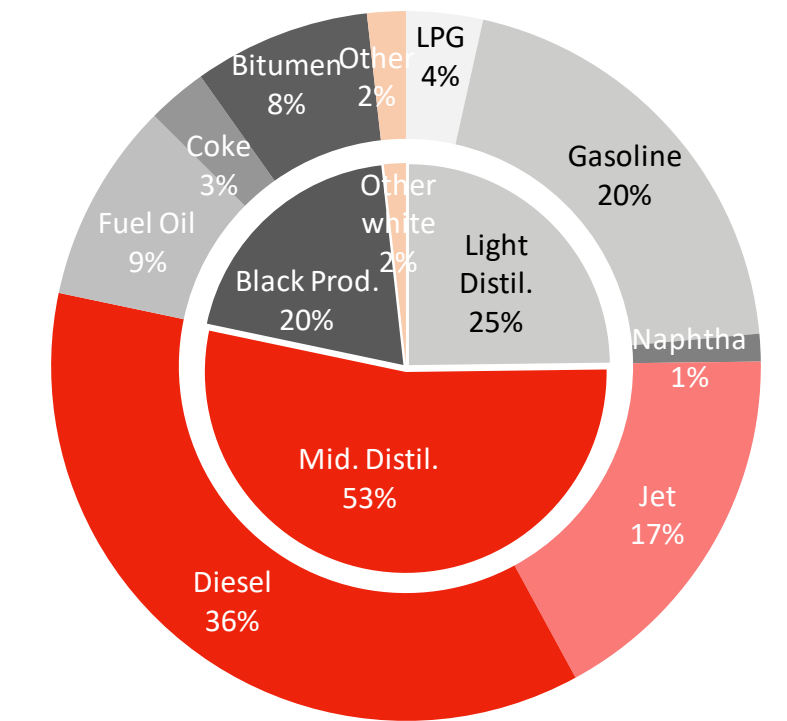


Crude Oil Imports by Region (%)



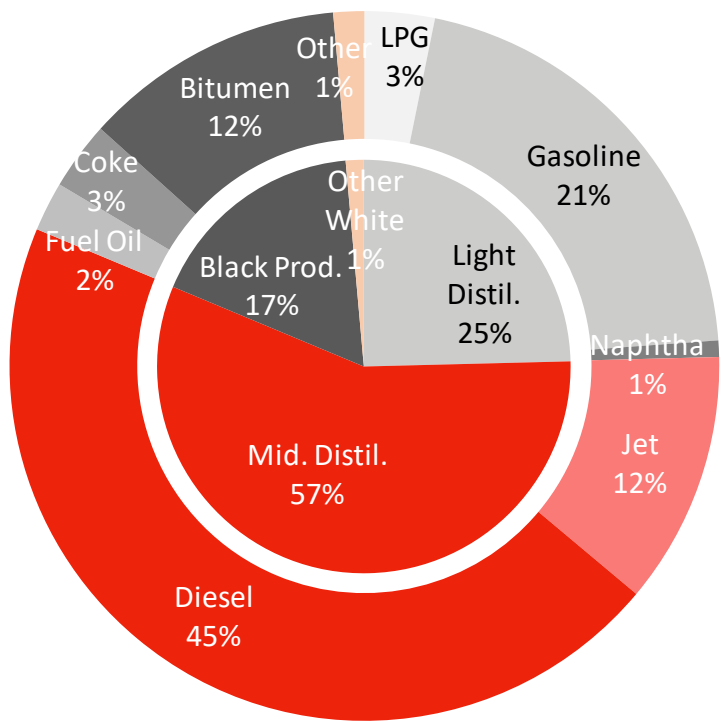
Annual Product Yields

2019



White Product Yield (%)	79.0%
Production	28.1 mn tons
API	32.0

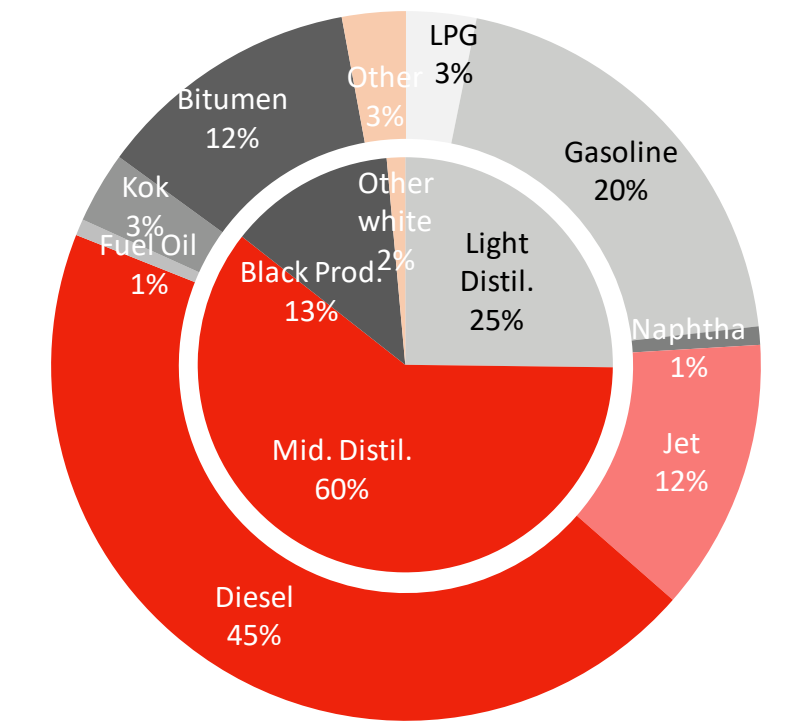
2020



White Product Yield (%)	81.5%
Production	23.4 mn tons
API	31.5

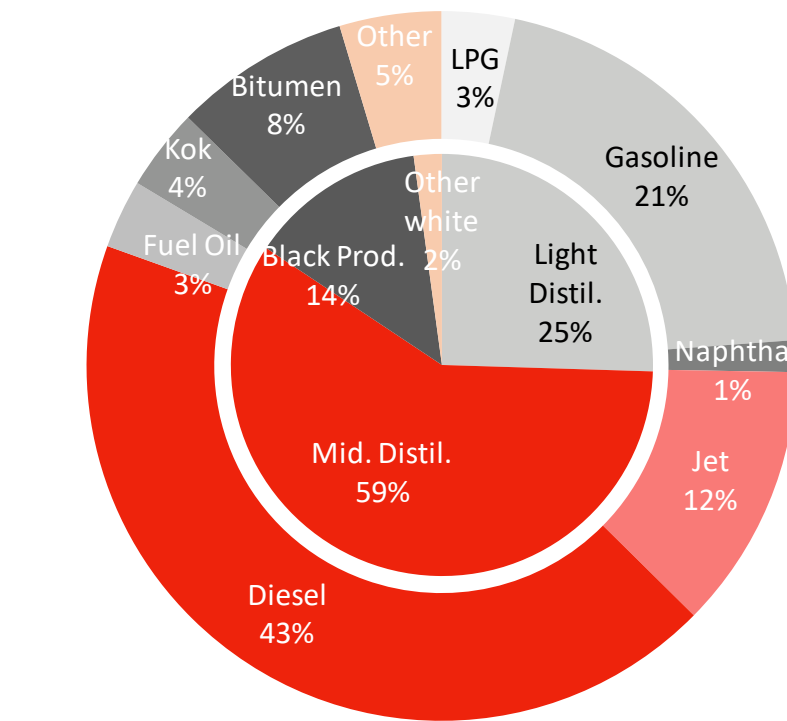
9M Product Yields

9M 2020



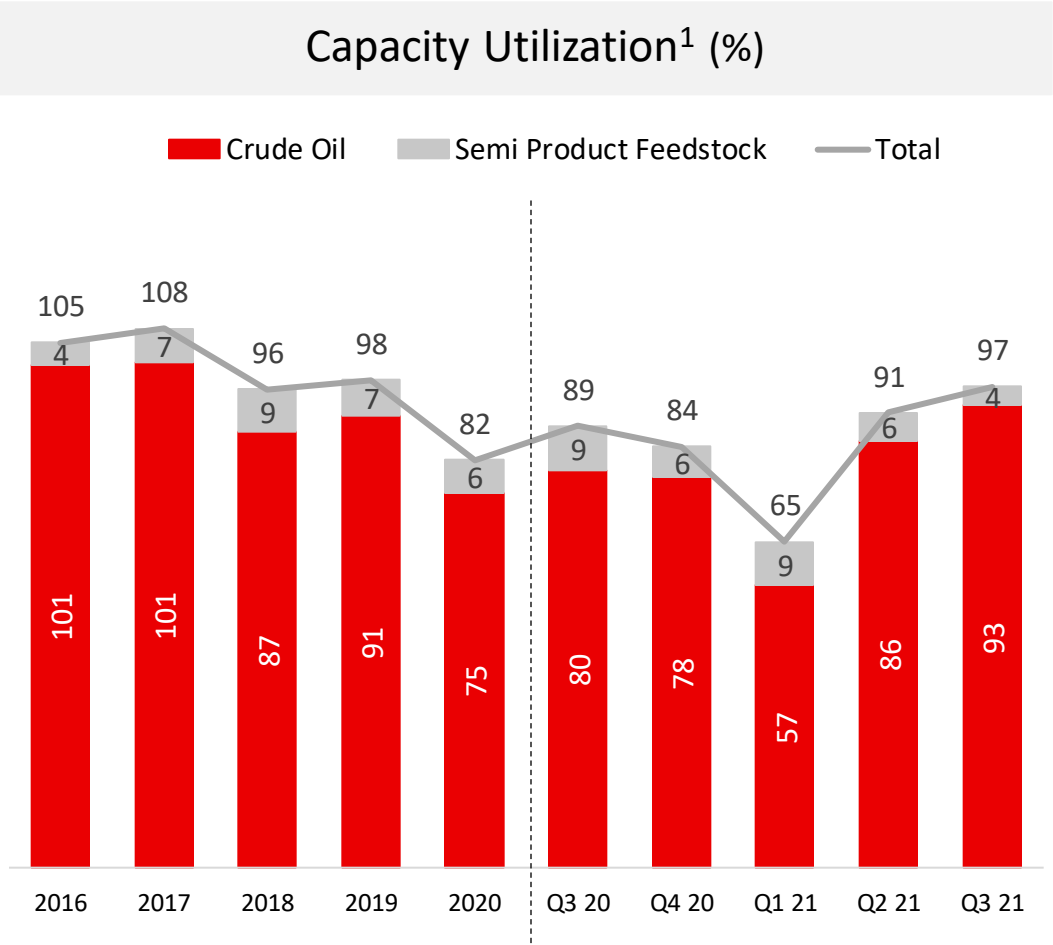
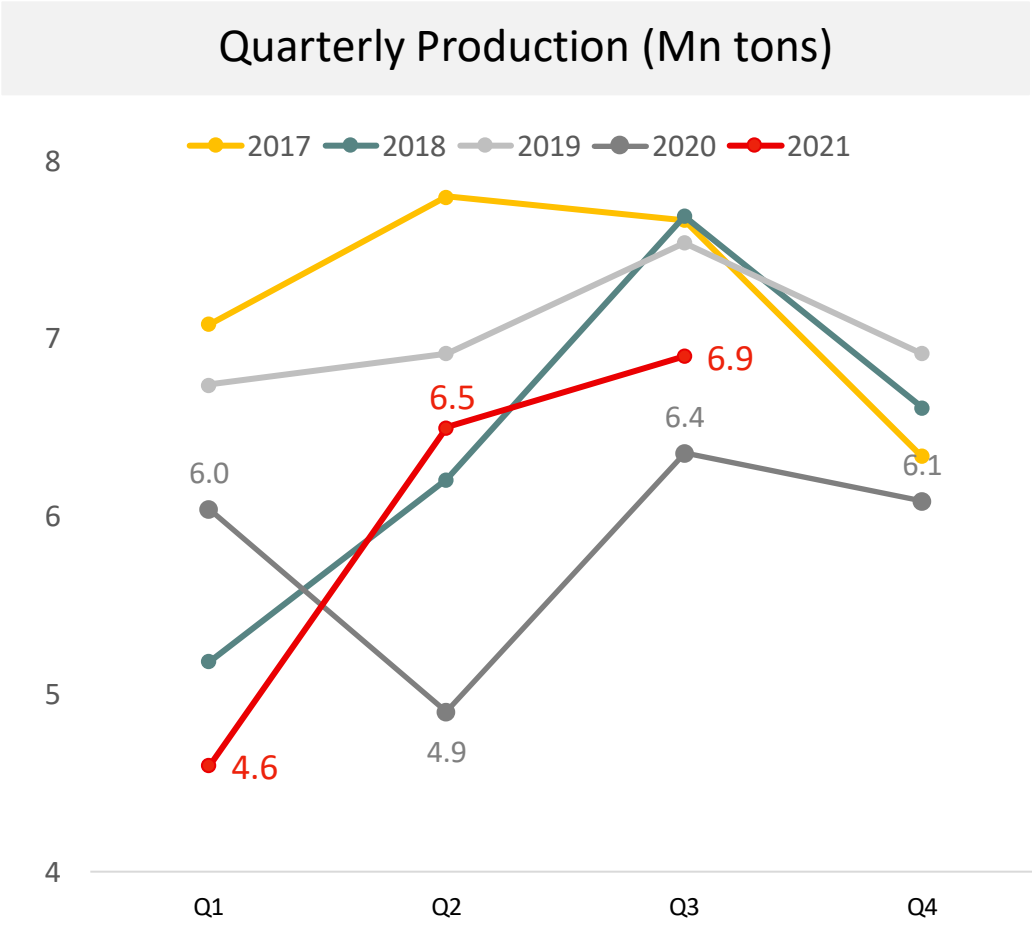
White Product Yield (%)	81.4%
Production	17.3 mn tons
API	31.3

9M 2021



White Product Yield (%)	85.2%
Production	18.1 mn tons
API	31.4

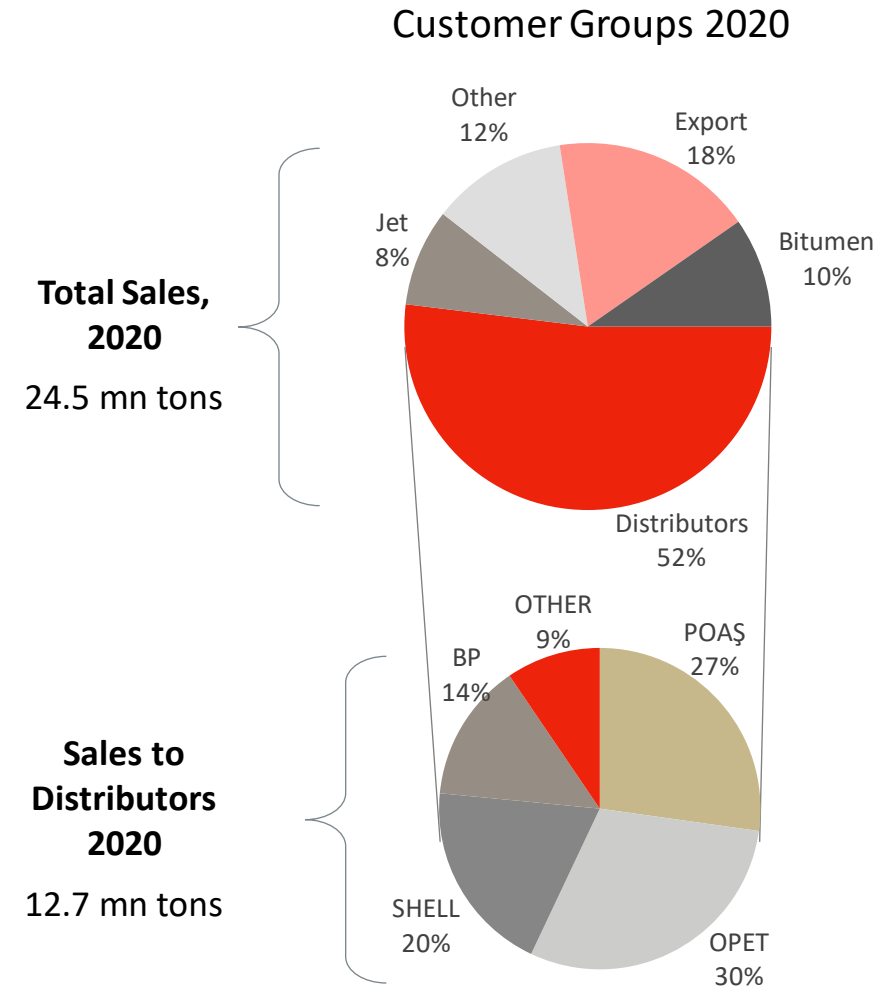
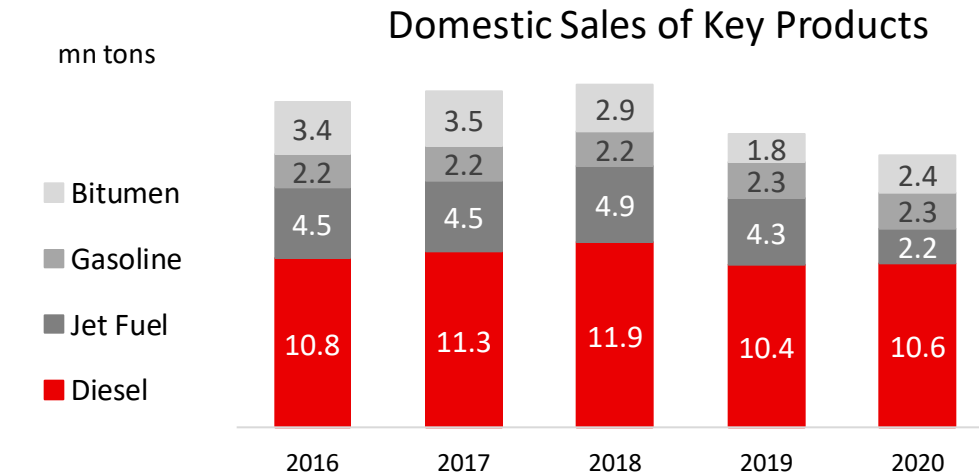
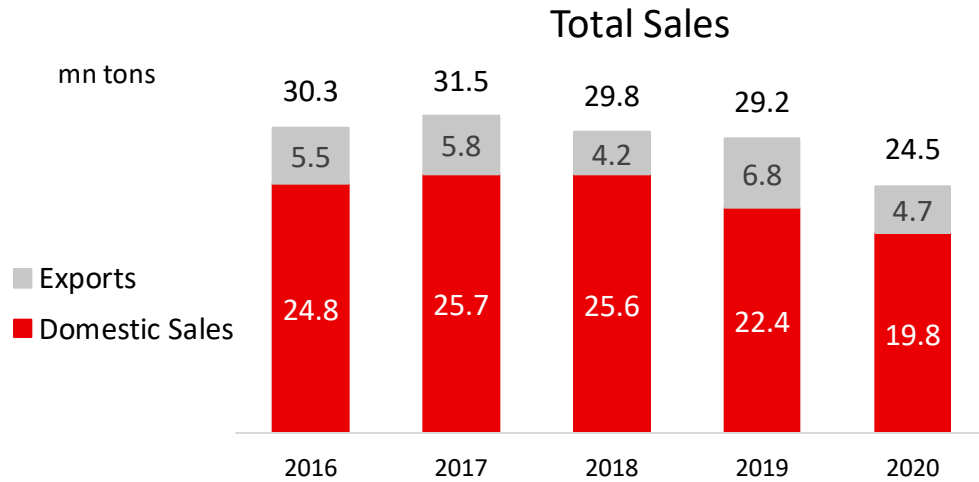
Capacity Utilization and Quarterly Production Volume



¹Capacity utilization calculation is based on 30 mn tons for Q1 2019 and onwards.

Sales

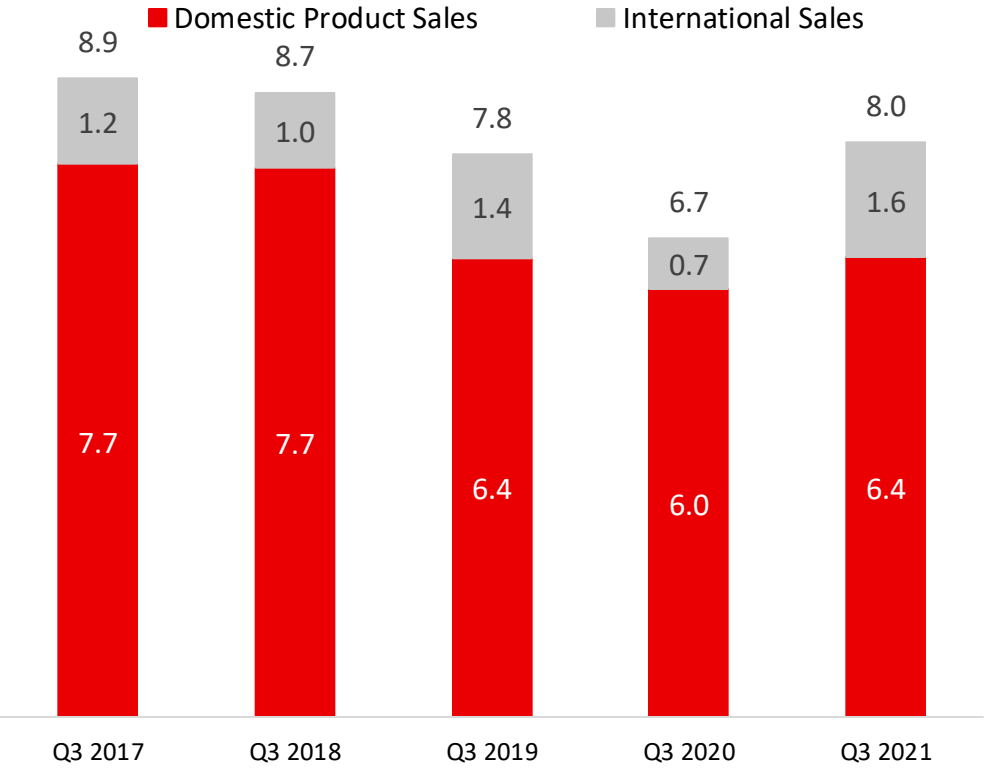
- Tüpraş generated 24.5 million tons of total sales in 2020.



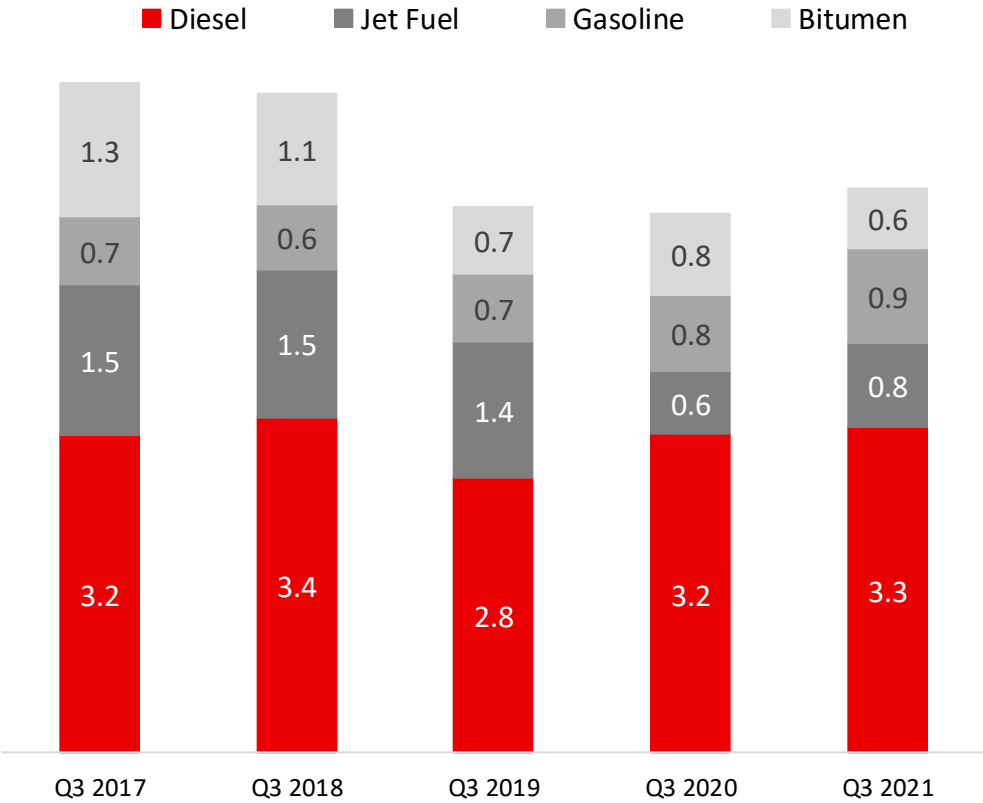
Product Sales in Q3 (Million Tons)

Tüpraş generated 8 million tons of sales in Q3 2021. Jet fuel and gasoline sales were strong with improved domestic demand. Total product sales increased 19% y-o-y, 2% higher than same quarter 2019 levels.

Total Product Sales



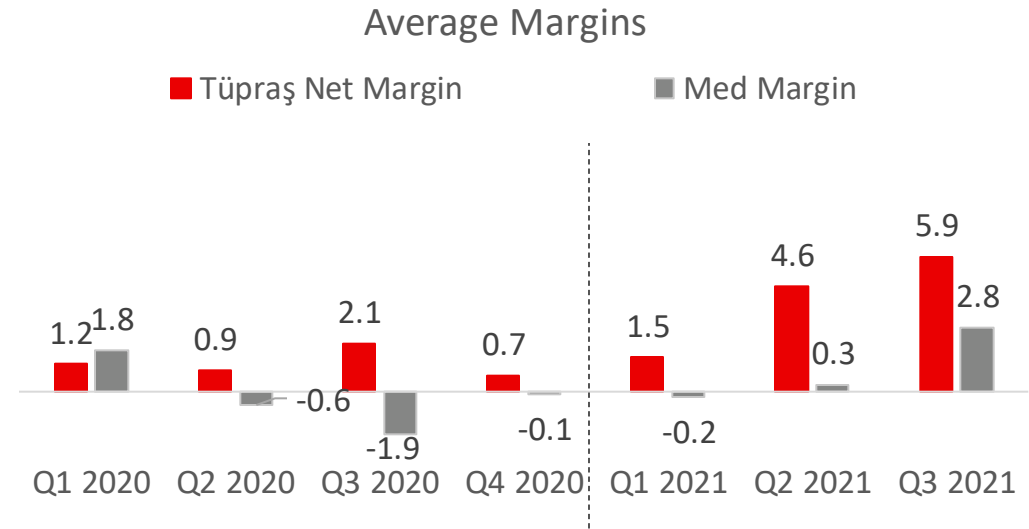
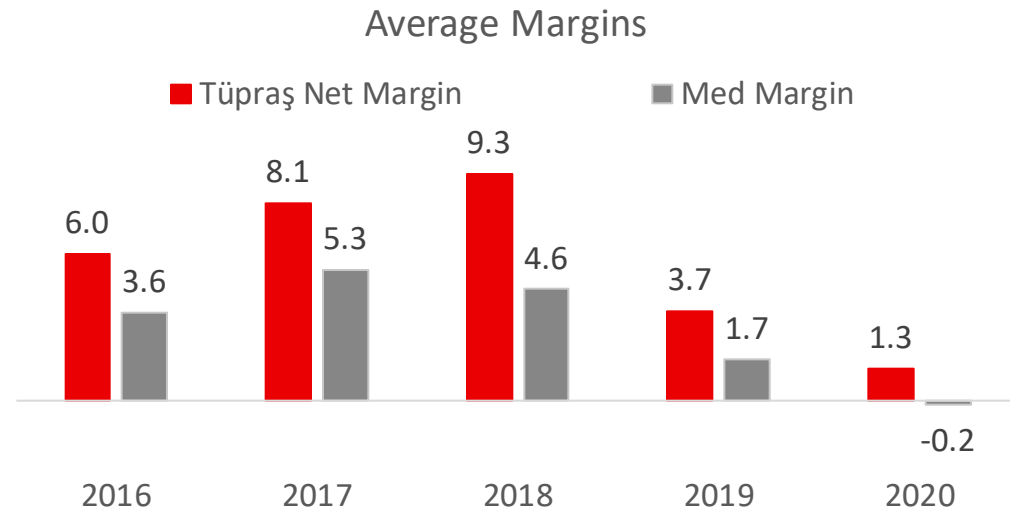
Domestic Sales of Selected Products





Financials

Tüpraş and Med Refining Margins



(\$/bbl)	Gross Margin	Inventory Effect	Clean Gross Margin	Clean NET Margin	Net Margin	Med Margin
Q3 2020	6.8	3.0	3.8	-0.8	2.1	-2.0
9M 2020	6.7	-0.3	7.0	1.7	1.5	-0.2
2020	6.4	0.0	6.4	1.2	1.3	-0.2
Q3 2021	10.4	0.5	9.8	5.4	5.9	2.8
9M 2021	9.1	1.5	7.6	2.8	4.3	1.0

Premium to the benchmark Mediterranean peers' refining margin due to:

- Ability to use heavier and sour crudes with higher complexity
- Access to a wide range of cheaper sources of crude oil
- Close proximity to major suppliers reduces transport costs
- Lower cost basis and more efficient energy usage
- Ability to produce a broad range of refined products with higher value added
- Direct pipeline connections with domestic clients

Income Statement (Million TL)

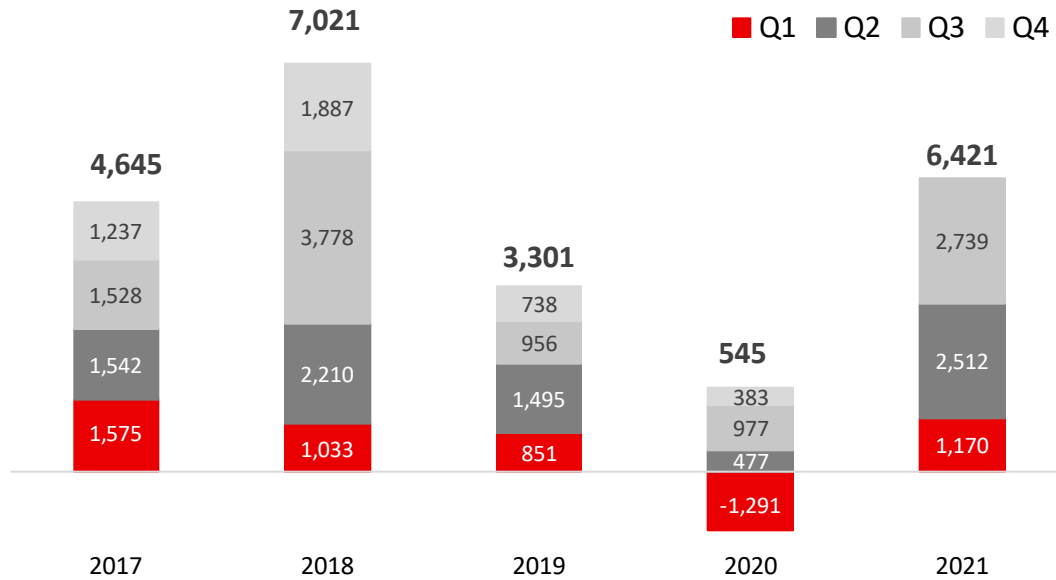
EBITDA realized as 2,739 mn TL in Q3 2021.

Million TL	Q3 2021	Q3 2020	%	9M 2021	9M 2020	%
Net Sales	40,993	17,035	141%	94,502	43,254	118%
COGS	-37,935	-15,845	-139%	-86,952	-42,083	-107%
Gross Profit	3,058	1,190	157%	7,549	1,171	545%
Operating Expenses	-782	-500	-57%	-2,030	-1,477	-37%
Income/Loss from other operations	-100	-492	80%	-2,009	-933	-115%
Operating Profit	2,176	199	994%	3,510	-1,239	383%
Income/Loss from equity investment	246	78	214%	306	-147	
Operating Profit Before Fin. Income/Loss	2,422	277	774%	3,816	-1,386	375%
Financial Income /Expense	-1,266	-833	-52%	-2,324	-2,297	-1%
Profit Before Tax	1,155	-556	308%	1,492	-3,683	
Net Profit (excluding minority interest)	988	-420	335%	1,927	-2,870	
EBITDA *(mn. TL)	2,739	977	180%	6,421	163	3851%
Inventory Gain/Loss (mn. TL)	511	1,439	-65%	3,430	-585	-
EBITDA* (mn. TL) CCS	2,229	-463	-582%	2,991	747	300%

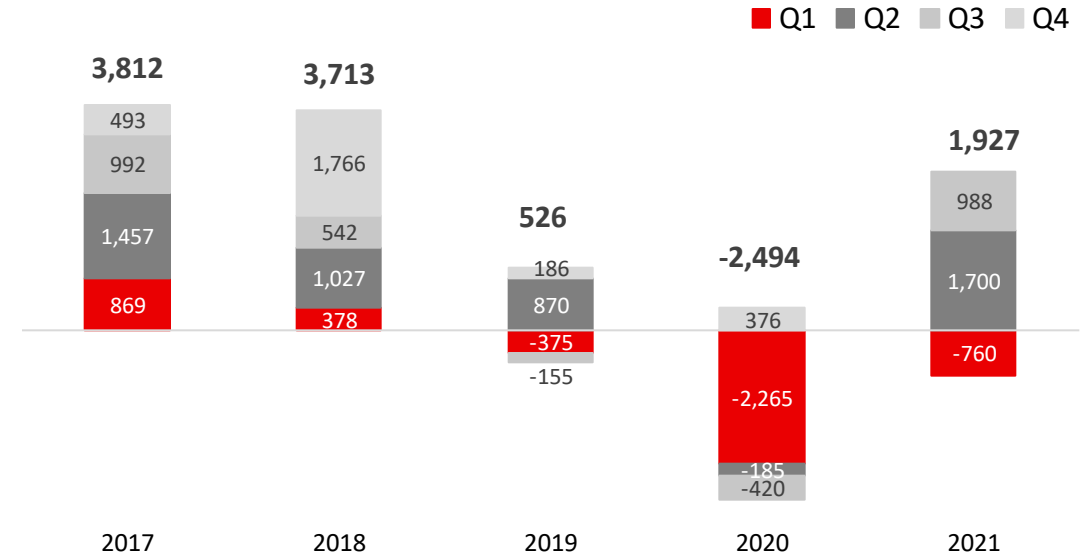
*On CMB reports. EBIT includes extra items such as FX impacts of trade receivables and payables. In our EBITDA calculation, FX related items are excluded from EBIT as customary in international practices.

Financial Highlights

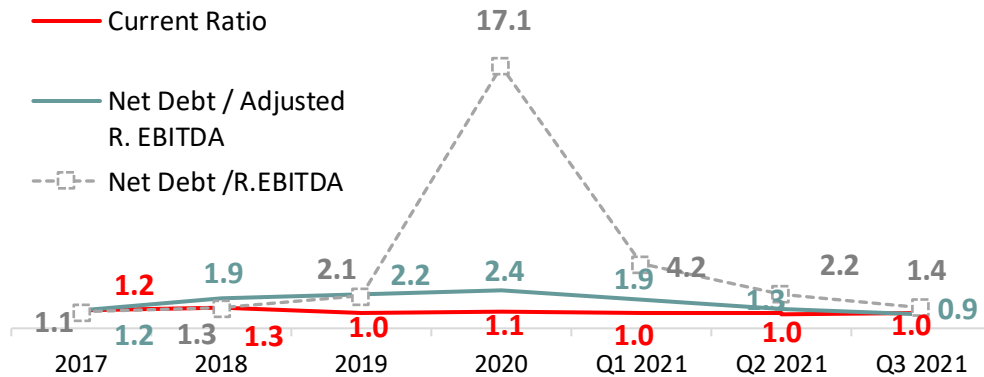
EBITDA (mn TL)



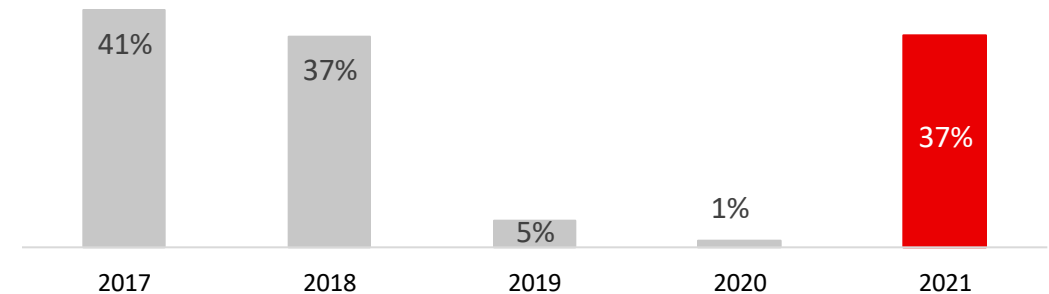
Net Income¹ (mn TL)



Current Ratio & Net Debt / Adj. EBITDA²

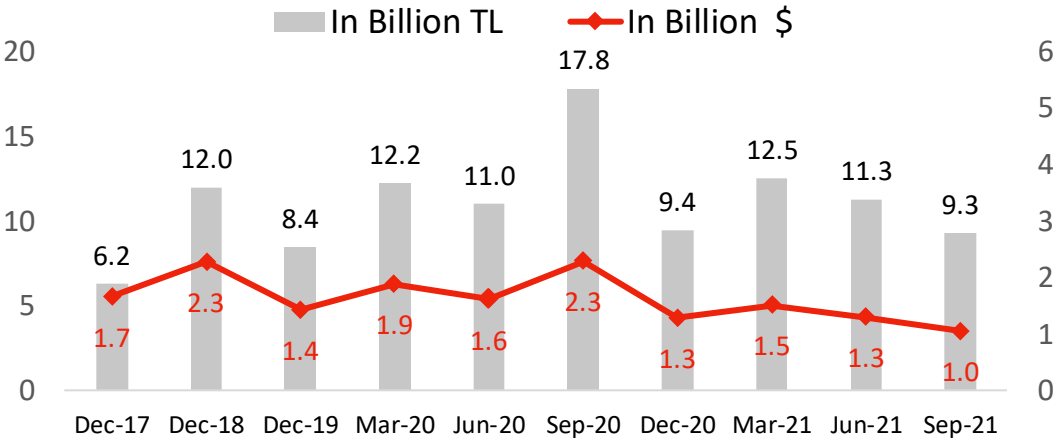


Return on Average Equity²

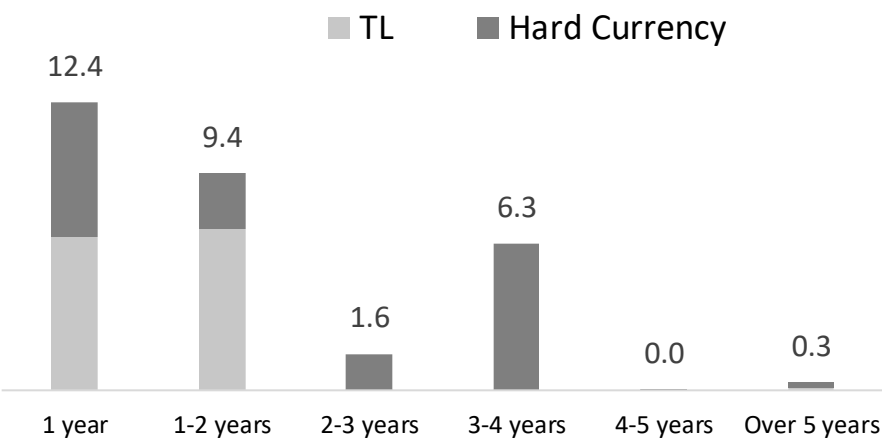


Balance Sheet Analysis

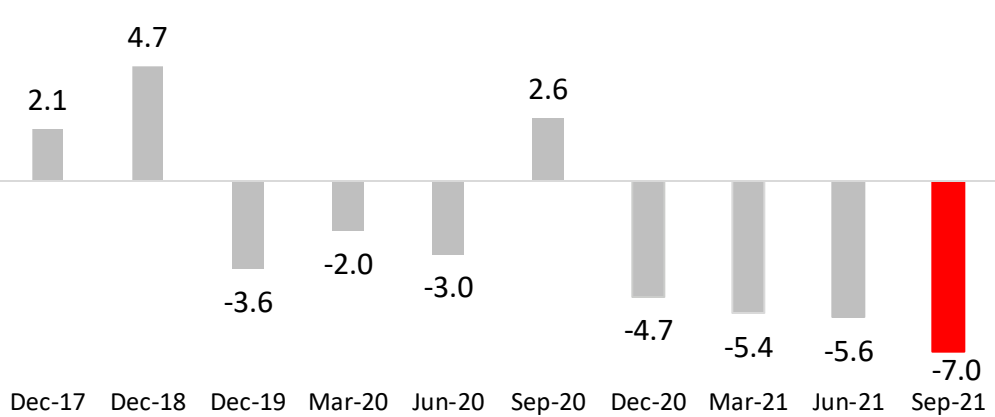
Net Debt



Redemption Schedule (Billion TL)



Working Capital Requirement (Billion TL)

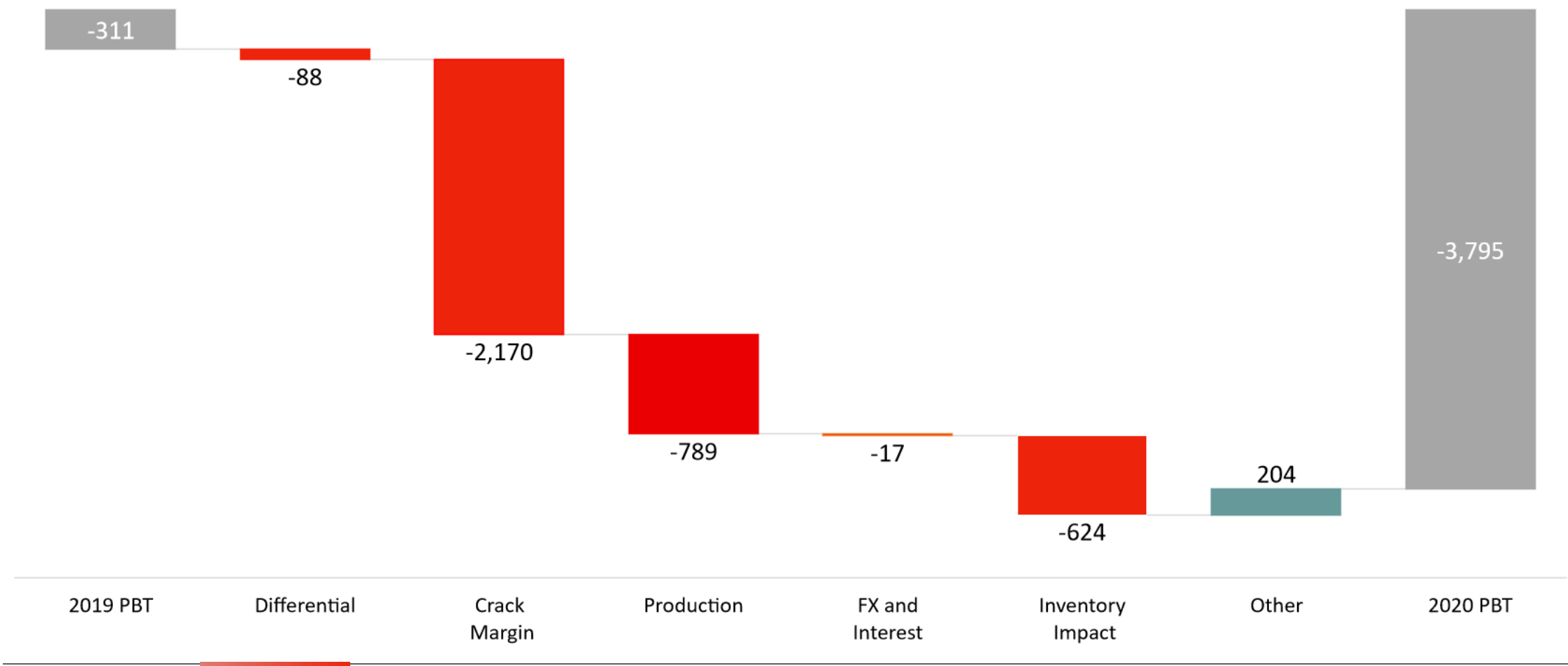


Financial Management

- Ongoing strict working capital management continues to lower funding needs
- Improved operational profitability generation further helps deleveraging

Annual Profit Before Tax Bridge (2019-2020)

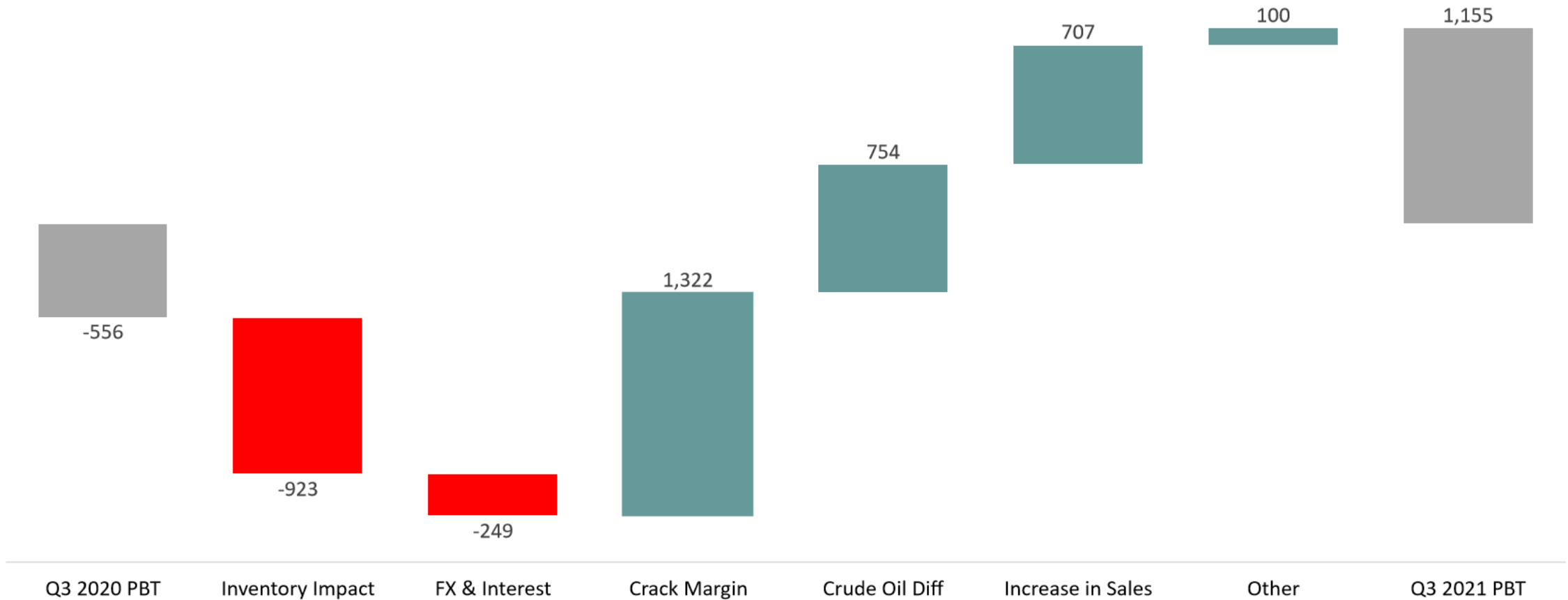
2020 PBT was adversely affected from historically low crack margins, lower production and inventory losses due to Covid19



Q3 Profit Before Tax Bridge (2021-2020)

In spite of devaluated TL, Q3 2021 PBT performed strongly with increase in total sales volume, better crack margins, widening differentials and lower interest expenses.

Million TL



2021 Expectations

Med Complex Refining Margin **1.5-2.0 \$/bbl**

Tüpraş Net Refining Margin **4.5-5.0 \$/bbl**

- 25-26 mt production, 26-27 mt sales and 85 - 90% capacity utilization

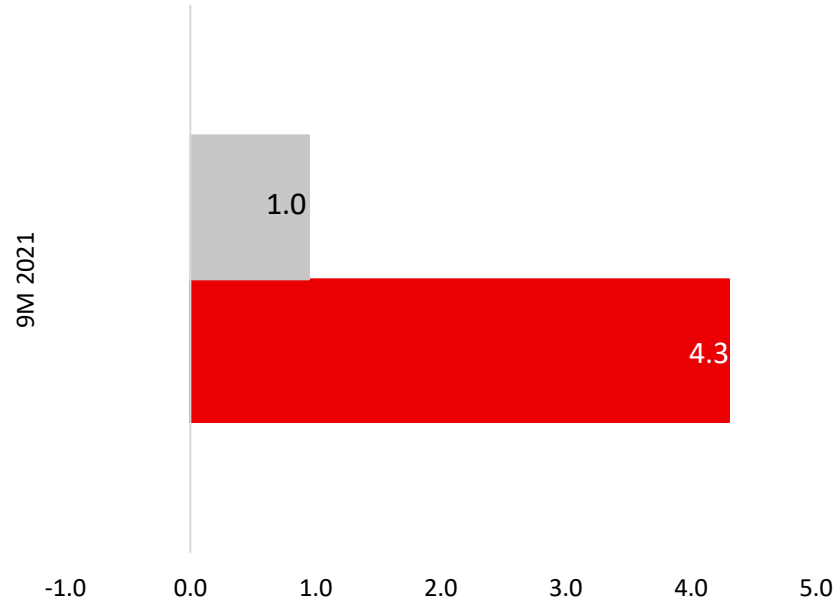
Consolidated Capex **~175 million \$**

- ~50% of capex for sustainability focused energy efficiency and environmental projects

9M 2021 Results

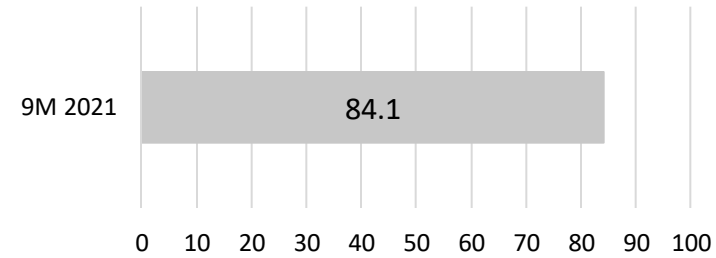
Refining Margins (\$/bbl)

■ Med Margin ■ Tüpraş Net Margin



4.3 \$/bbl net refining margin in 9M 2021

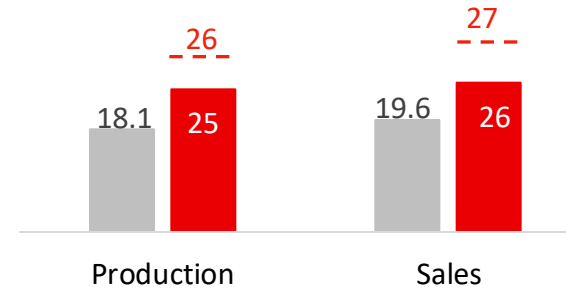
Capacity Utilization (%)



84% total capacity utilization in 9M 2021

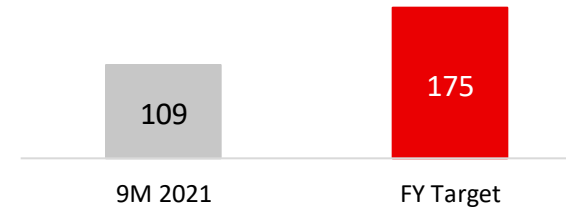
Operational

■ 9M 2021 ■ FY Target



19.6 mn tons of sales and 18.1 mn tons of production in 9M 2021

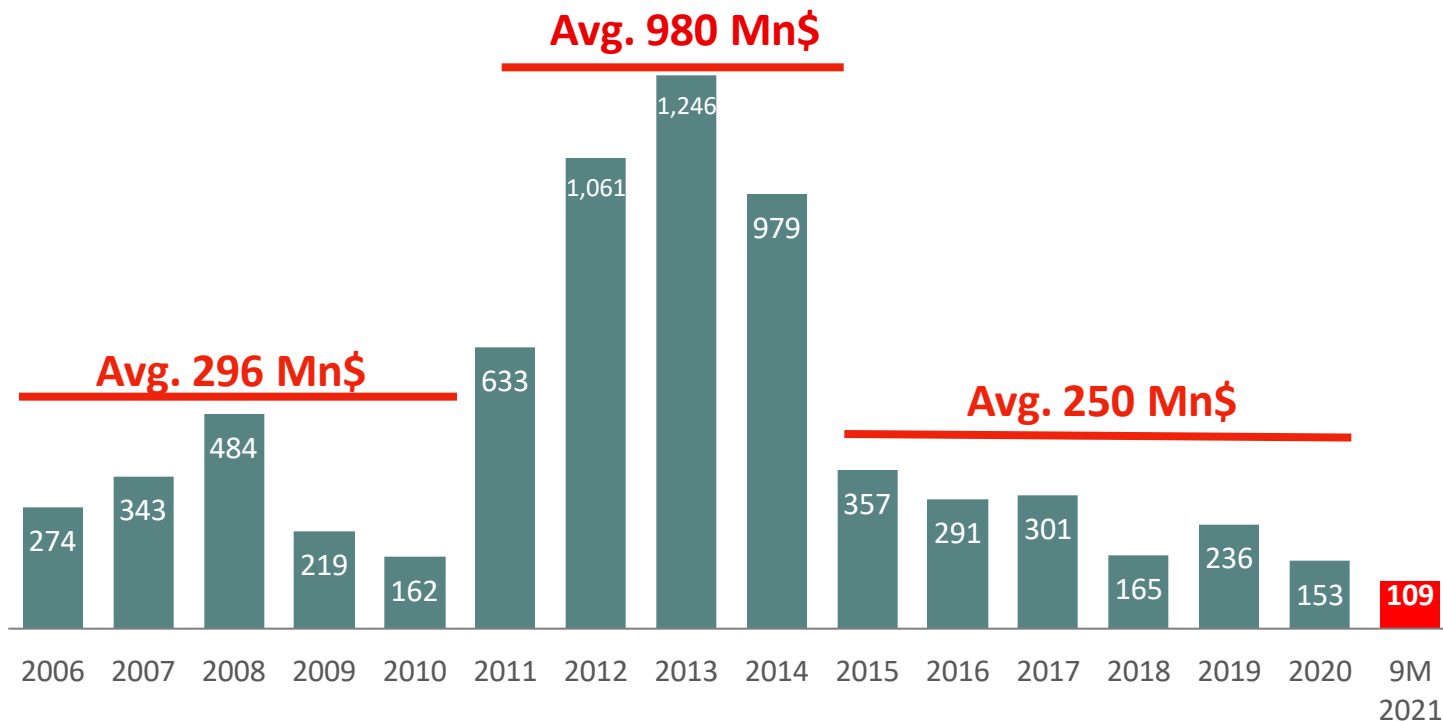
Total Capex (mn \$)



109 mn \$ total CAPEX in 9M 2021

Investments (Million \$)

- c6.9 bn USD investments since privatization
- Reached 9.5 Nelson Complexity
- Capability to process heavier and more sour crude



Ongoing Projects

- Revamp of FCC
- Periodic Maintenance of Vacuum & Lube Complex in Izmir is postponed to 2022

Financial Policy

Financial Discipline: Risk management policies focusing on areas such as leverage, liquidity, counterparty risk, commodity, interest rate and currency exposure.

Leverage & Liquidity

Proactive in liquidity risk management & targets/limits for financial ratios:

- Net financial debt/EBITDA
- Net financial debt/Equity
- Current ratio
- Share of long-term debt

Counterparty Risk Policy

Deposit is kept within bank-based limits:

- Credit rating assessment and strong capital base.
- Cap on the maximum deposit allocated to a single bank.
- Threshold for deposits subject to banks shareholders' equity.

Interest Rate & Fx

- The fixed/floating profile of financial debt.
- Proactive management of FX risk with derivative instruments
- Zero FX exposure target.

Commodity Hedging Policy

Inventory Hedging Policy:

- Operational hedge: Optimum stock policy & forward pricing mechanism.
- Financial hedge: Expected inventory exposure for the year end is hedged by using derivatives.
- Hedging ratio increasing throughout the year.

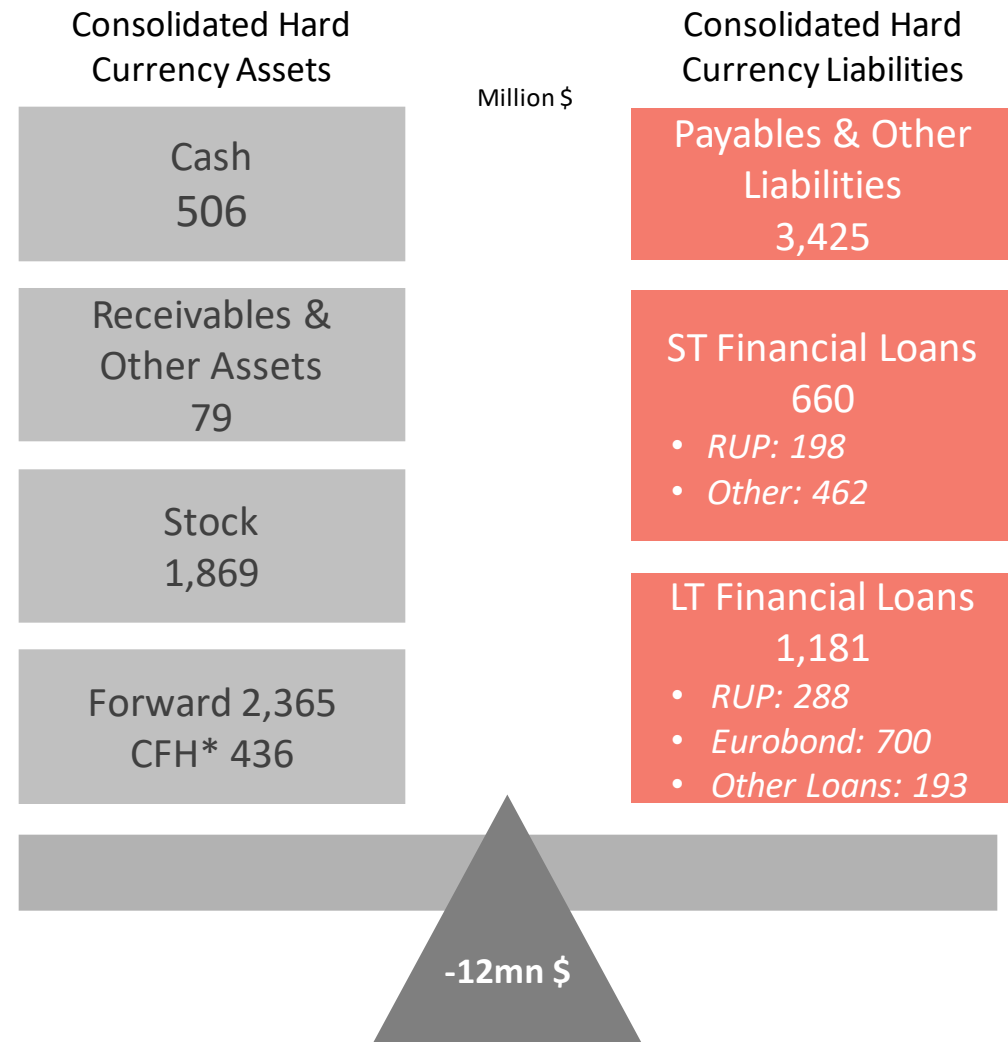
Crack Margin Hedging Policy:

- Financial hedge: Crack margin (gasoline, diesel, jet fuel, fuel oil) risk mitigation by using derivatives.
- Hedge ratio between %0-%50 with up to 1 year hedge tenor

FX Exposure Management (30 September 2021)

Tüpraş continues to employ strict FX policies to mitigate currency risks stemming from volatility.

- A significant portion of the Group's crude oil and refined product purchases are denominated in US Dollars. In addition, the Group finances its capital expenditures mostly through borrowings denominated in US Dollars.
- Natural Hedge: The Group is able to mitigate some of the impact of volatility in exchange rates through natural hedges: crude oil and refined product inventories are US Dollar denominated assets.
- Cash flow Hedge: RUP Facility financing loans designated as hedging instruments of highly probable export revenues.
- As a general Koç Holding financial policy, Group companies are allowed to keep foreign exchange positions within certain limits.



*Cash Flow Hedge



Appendix

Tüpraş Balance Sheet (Million TL)

	30.09.2021	31.12.2020	Diff.	Diff. (%)
Current Assets	49,497	30,663	18,834	61
Cash & C. Equivalents	20,797	19,825	972	5
Trade Receivables	7,941	1,736	6,205	358
Derivatives	736	380	356	94
Inventories	16,260	7,701	8,559	111
Pre-paid expenses	272	234	38	16
Other Current Assets	3,492	788	2,704	343
Long Term Assets	31,572	30,505	1,066	3
Financial Assets & Subsidiaries	1,569	1,330	239	18
Tangible & Intangible Fixed Assets	22,485	22,137	347	2
Derivatives	82	88	-6	-6
Pre-paid expenses	102	135	-33	-24
Deferred Tax	5,538	5,002	535	11
Other Longterm Assets	1,796	1,813	-17	-1
Total Assets	81,069	61,169	19,900	33
Short Term Liabilities	49,222	28,341	20,882	74
Financial Loans	12,421	8,502	3,920	46
Trade Payables	31,221	14,137	17,083	121
Derivatives	610	763	-152	-20
Provisions	304	142	162	114
Other ST Liabilities	4,666	4,796	-131	-3
Long Term Liabilities	18,046	21,155	-3,109	-15
Financial Loans	17,642	20,743	-3,102	-15
Payables & Provisions	356	356	0	0
Derivatives	37	45	-9	-19
Other LT Liabilities	12	10	2	16
Total equity attributable to equity holders of the parent	13,535	11,446	2,089	18
Minority Interests	265	226	39	17
Total Liabilities & Equity	81,069	61,169	19,900	33

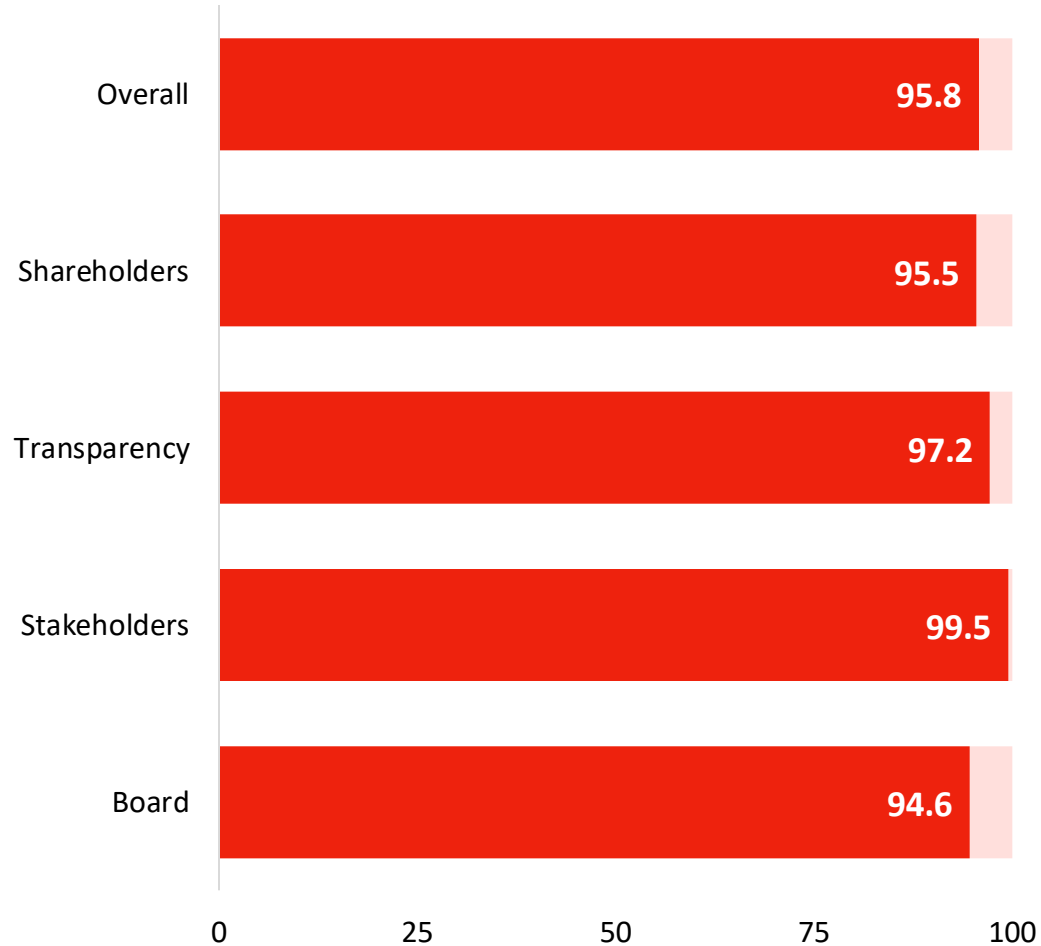
2021 Refinery Maintenance Schedule

Refinery	Unit	Starting Quarter	Duration (weeks)	Purpose	Status
Batman	Crude Oil & Vacuum	Q1	7*	Seasonal	Done
İzmir	Crude Unit	Q1	9	Revamp / Opportunity Maintenance	Done
	CCR	Q1	10		Done
	FCC	Q1	9		Done
	Isomerization	Q1	10		Done
	Desulphurizer	Q1	11		Done
	Vacuum	Q4	6	Periodic Maintenance	Postponed (2022)
	Lube Complex	Q4	6	Periodic Maintenance	Postponed (2022)
İzmit	Desulphurizer	Q1	4	Periodic Maintenance	Done
	FCC	Q1	41	Revamp	Ongoing
	Crude Unit	Q4	2	Periodic Maintenance	Done
Kırıkkale					

(*) This activity started in Q4 2020. Duration figure indicates the portion carried out in 2021

Tüpraş - Ratings

Tüpraş BIST Corporate Governance Rating Score



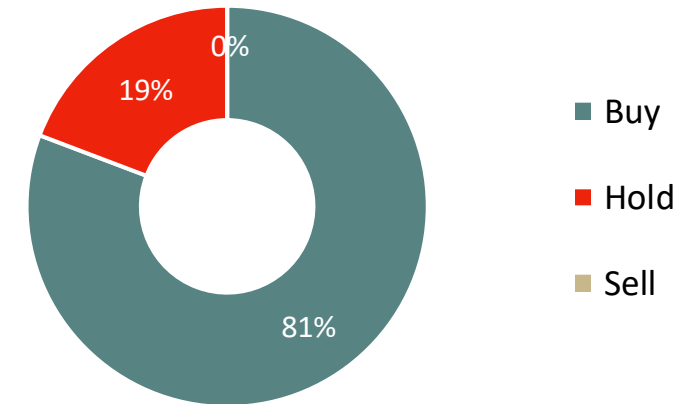
*data as of 31 December 2021

Source: SAHA Corporate Governance and Rating Services Inc. (October 2021)

Credit Rating Scores

Foreign Currency Long Term	FitchRatings	MOODY'S	S&P Global Ratings
Tüpraş	B+ (Stable)	B2 (Negative)	
Turkey	BB- (Negative)	B2 (Negative)	B+ (Stable)
Koç Holding		B2 (Negative)	BB- (Stable)

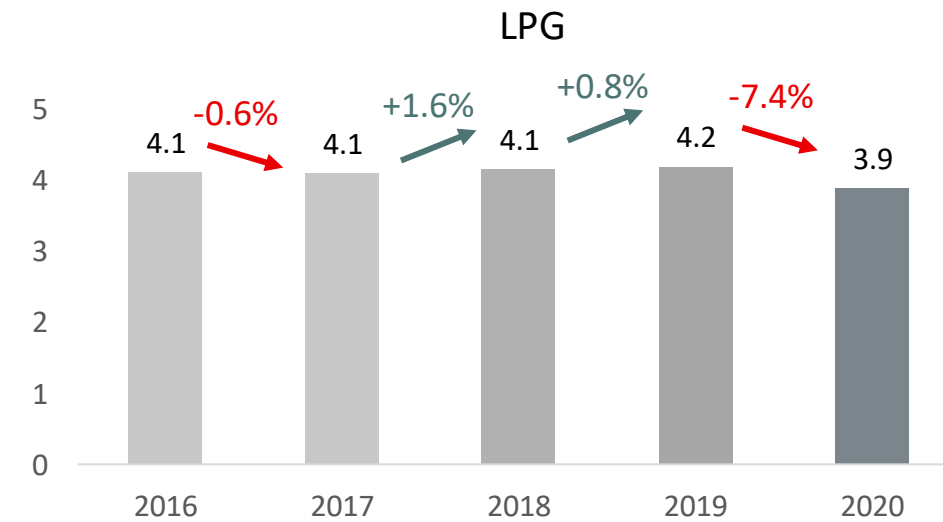
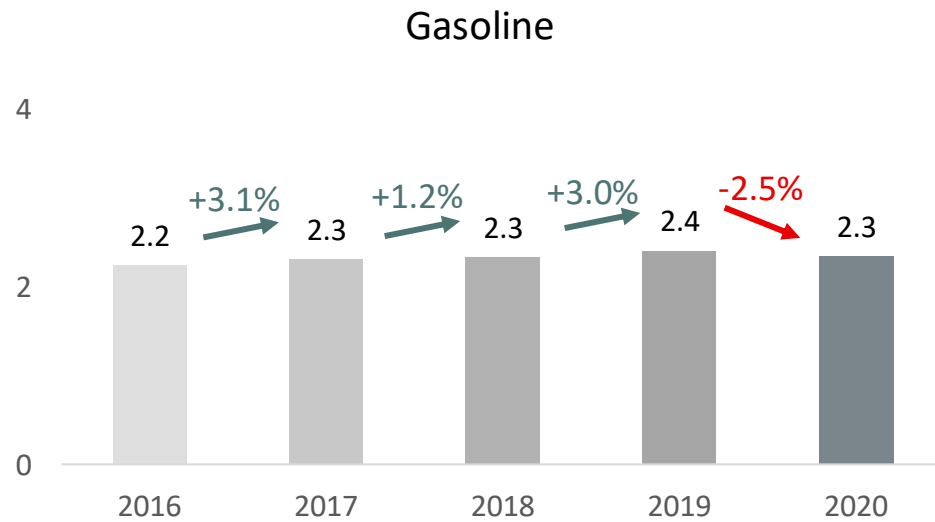
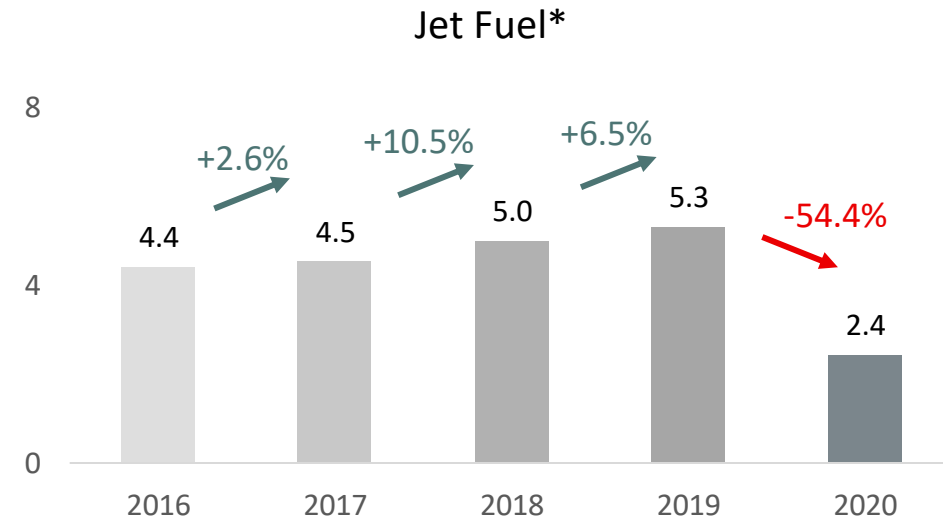
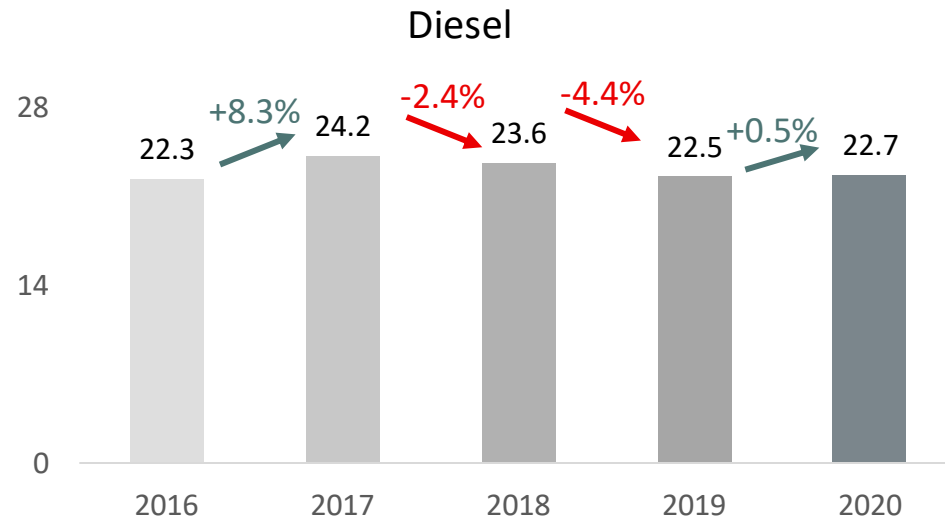
Analyst Recommendations



Source: Bloomberg*

Turkish Consumption 2016-2020

Million
Tons



Source: Tüpraş and EMRA
* Transit flight consumption included

Competition - STAR Refinery

Timeline



- Feasibility studies began in 2010 and construction kicked off in 2011
- Goldman Sachs has acquired a 13% stake in SOCAR Turkey for \$1.3 billion.
- Total investment size 6.3 bn USD, with 3.3 bn USD credit agreement.
- Following the completion of construction late 2018, reached full capacity utilization in August 2019

Source: EMRA

Turkish Market Structure (mn tons)

Turkey Demand	Tüpraş	STAR	Total	Turkish Market Demand*	Balance
LPG	1.1	0.3	1.4	4.2	-2.8
Petchem F.	0.2	2.6	2.8		
Gasoline	6.1		6.1	2.4	3.7
Jet Fuel	5.2	1.6	6.8	5.3	1.5
Diesel	10.7	4.8	15.2	22.5	-7.3
Fuel Oil	1.8		1.8	0.3	1.5
Bitumen	3.1		3.1		
Pet coke	0.8	0.7	1.5		
Total	~30	~10	~40		

Competition - Regional Competition

- Tüpraş competes with 71 refineries in the Mediterranean and Black Sea markets.
- Mediterranean regional product balance is also affected from Middle East, North West Europe and Asia flows

Mediterranean



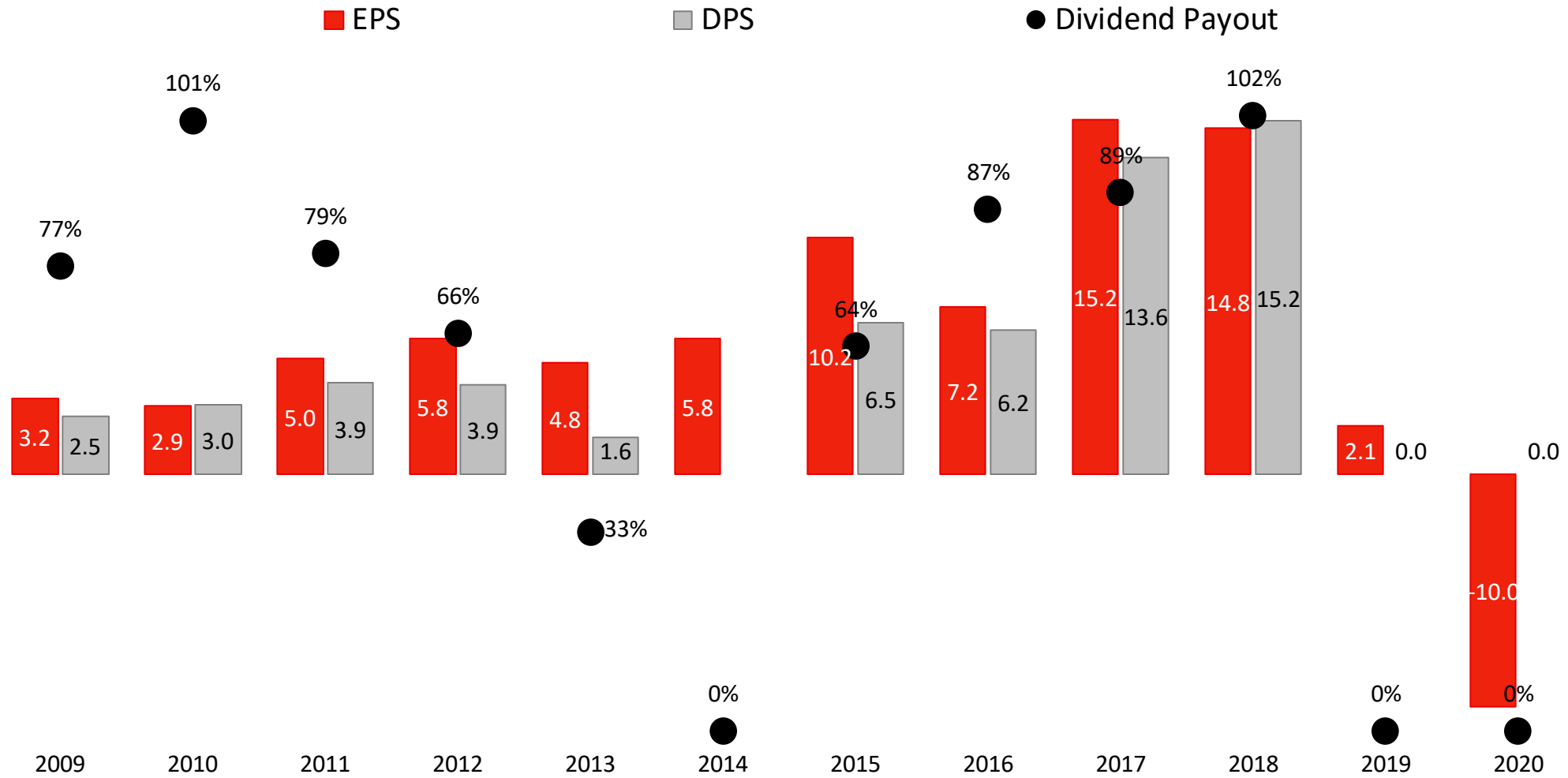
54 Refineries ~7.8mbd

Black Sea



17 Refineries ~1.8mbd

Dividend (TL)

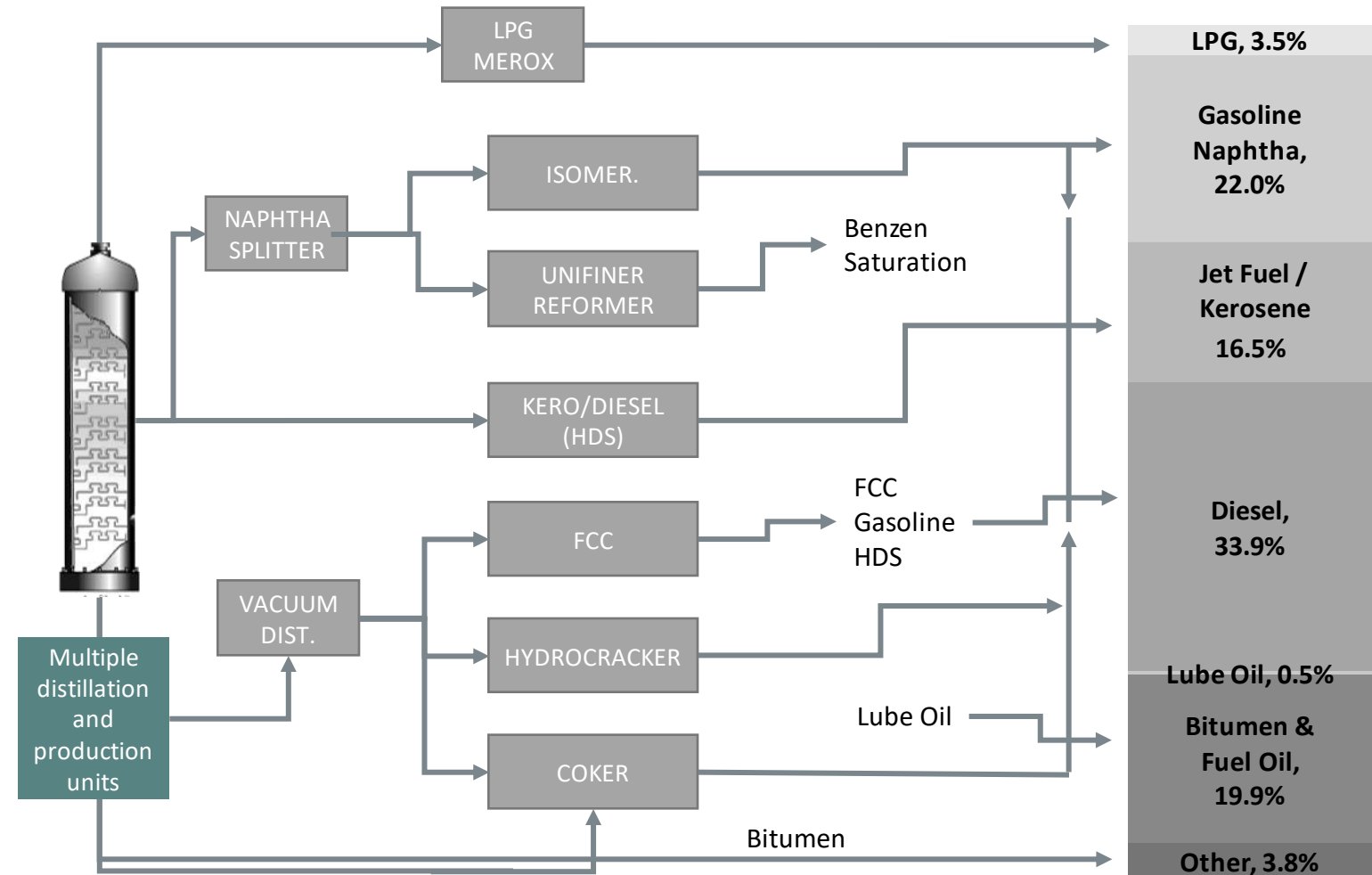


Tüpraş Production Flow and Yield Breakdown

- Tüpraş has 30 million tons of production capacity
- Tüpraş operates 4 refineries with an integrated system optimization program

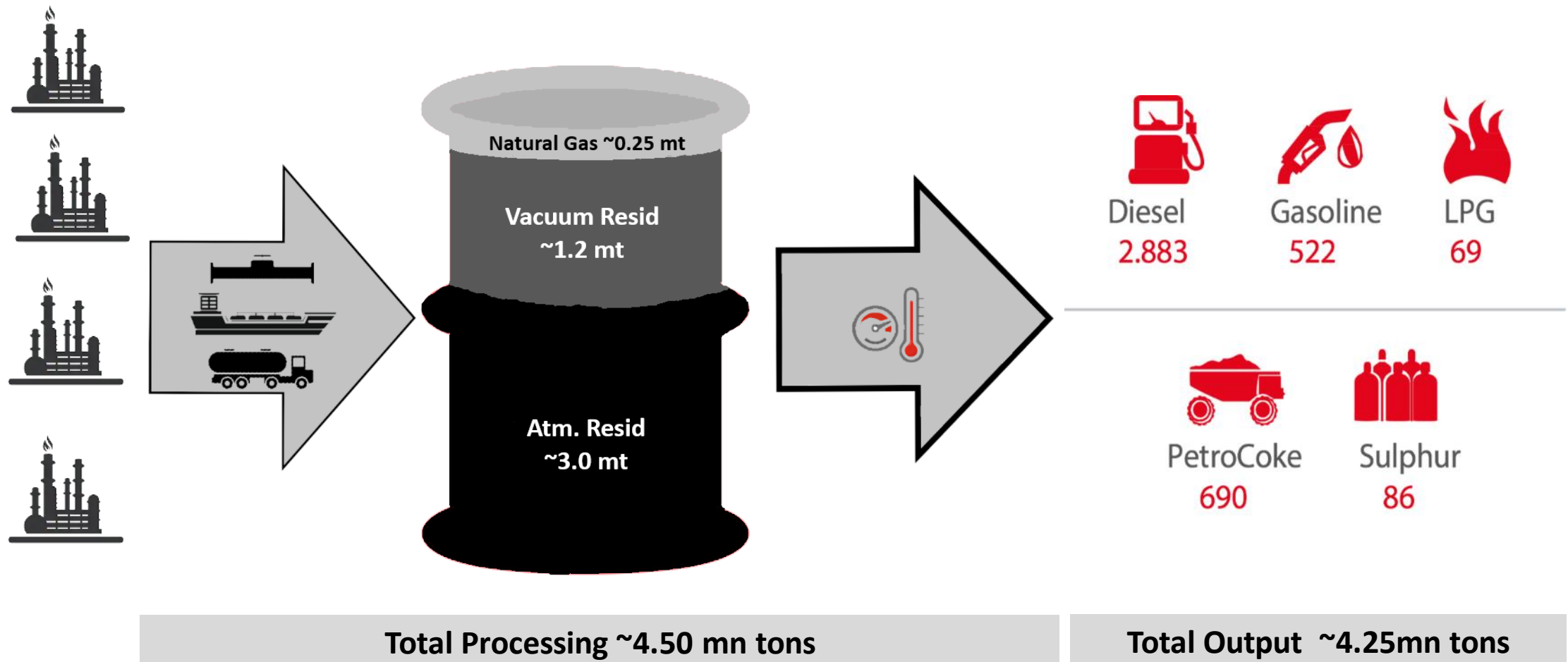
Key Units	# of Units	Capacity (m ³ /d)
CRUDE OIL	8	99,420
VACUUM DIST.	8	42,752
HYDROCRACKER	4	18,032
ISOMERATION	3	7,804
UNIFINER REFORMER	5	16,225
KERO/DIESEL (HDS)	9	37,265
FCC	2	4,650
COKER	1	9000
NAPHTA SPLITTER	8	
LPG MEROX	6	

Flow Diagram



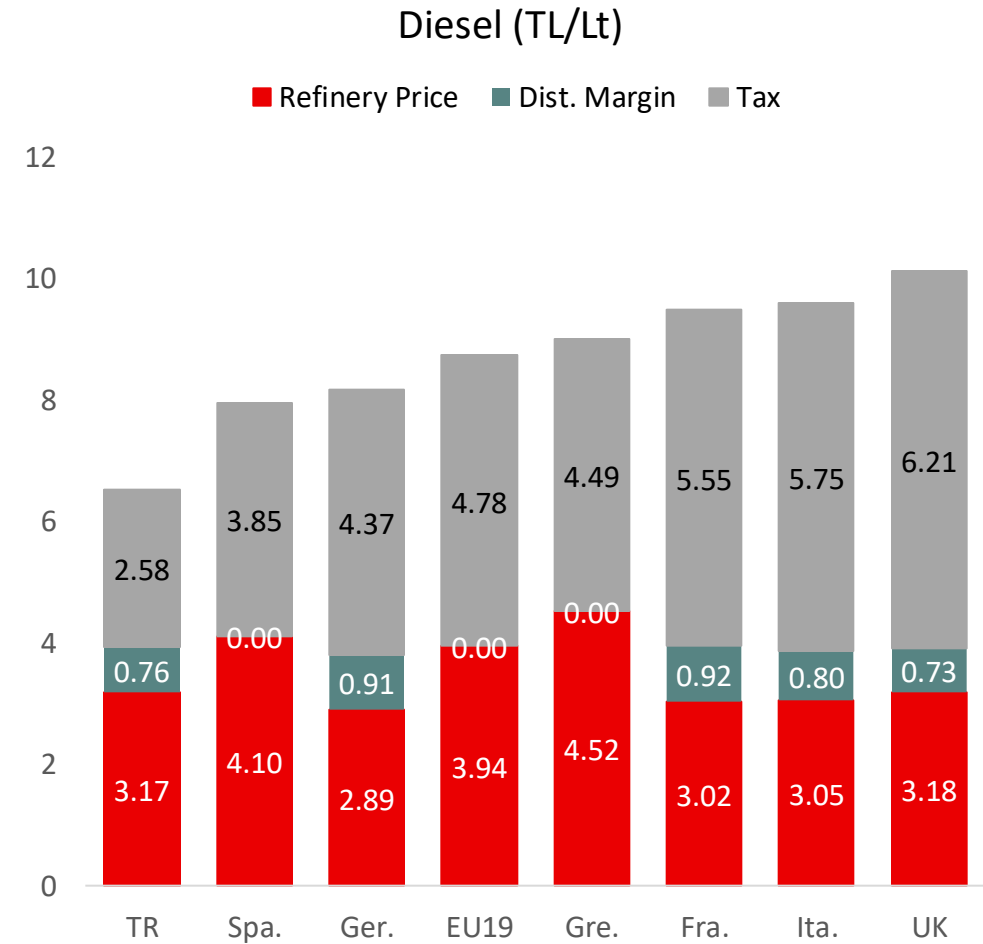
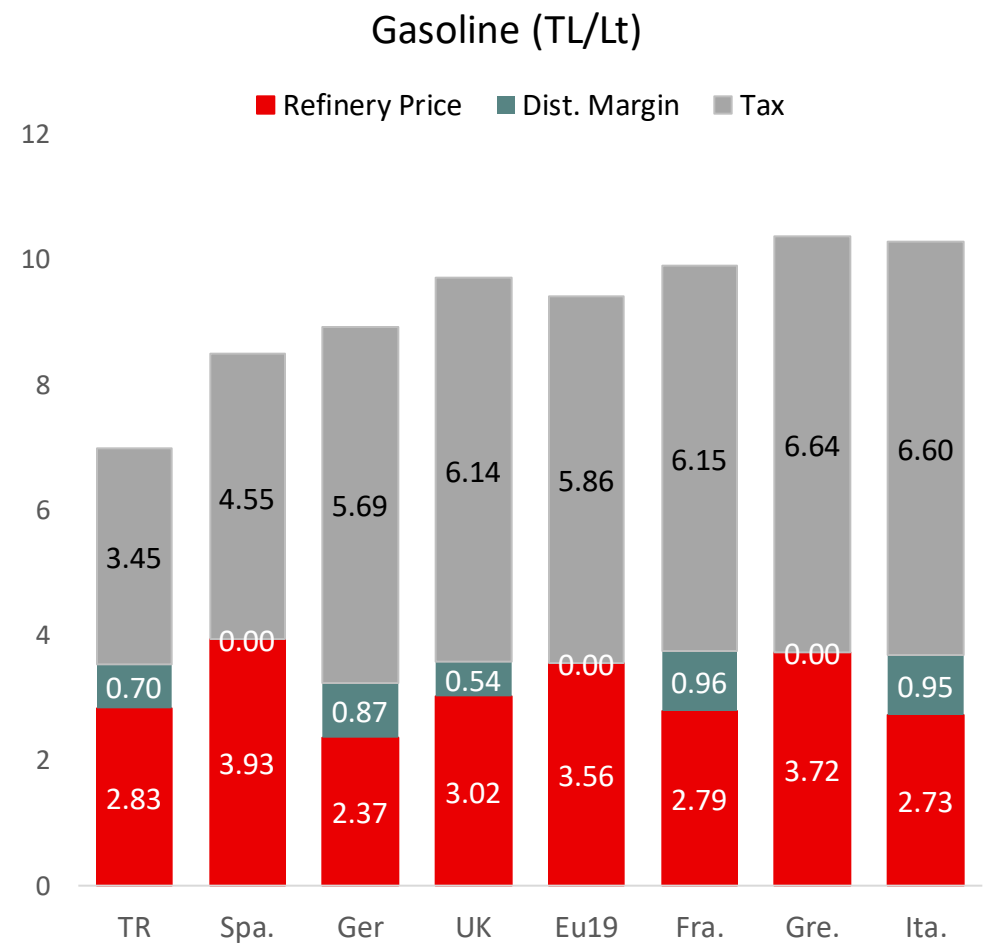
RUP Feedstock and Production

- Residuum Upgrade Plant (RUP) was completed in 2015 and it is the main conversion unit of Tüpraş.
- First periodic maintenance was completed in Q2 2019.



European Pump Price Comparison

Turkish fuel prices are highly competitive with other European countries.



European and Turkey prices as of February 8th, 2021

Tüpraş's Sustainability Efforts Over a Decade of Dedication

Tüpraş kicked off its sustainability program back in 2008 and achieved many milestones in a decade

From our investment decisions to our working methodology, we placed sustainability at the forefront of our operations, as a core management aspect. Accordingly, we adopted the UN Sustainable Development Goals (SDGs) as a significant guidance mechanism seeking creative solutions to global challenges.

~500

energy efficiency projects leading to
~35,000 TJ saving and
2.4 mt CO2 reduction

11.5%

increase in solid waste recovery

45.5%

decrease in fresh water usage

20.7 points

drop in Energy Intensity

~209 MTL

donations and sponsorships

76.5%

increase in female employee numbers

~1.2 mn

workhours dedicated to OHS training

+1.3 points

increase in Corporate Governance rating

17%

female representation in senior and mid-level management



See our Sustainability Report for details

2020 Achievements

Environmental Responsibility



- In the Industrial Energy Efficiency (SENER) Project Competition, Kırıkkale Refinery won the 2nd place with its "Energy Optimization Studies" project, and İzmit Refinery received the Special Jury Award with its "Hydroprocess Units Operational Energy Optimization" project.
- İzmit Refinery won the Waste Management Award at the "Sustainable Business Awards".
- Achieved **63.6%** water recycle ratio
- Achieved **58.8%** solid waste recovery

Social Support



- In the first days of the pandemic, we quickly coordinated with 60 volunteer teachers, using 3D printers in robotic coding classes, 10 thousand visor masks were produced for healthcare workers and delivered to Provincial Health Directorates. This project was deemed worthy of the "Possible Together" award at the TİSK Common Tomorrows Possible Together Competition in December 2020.

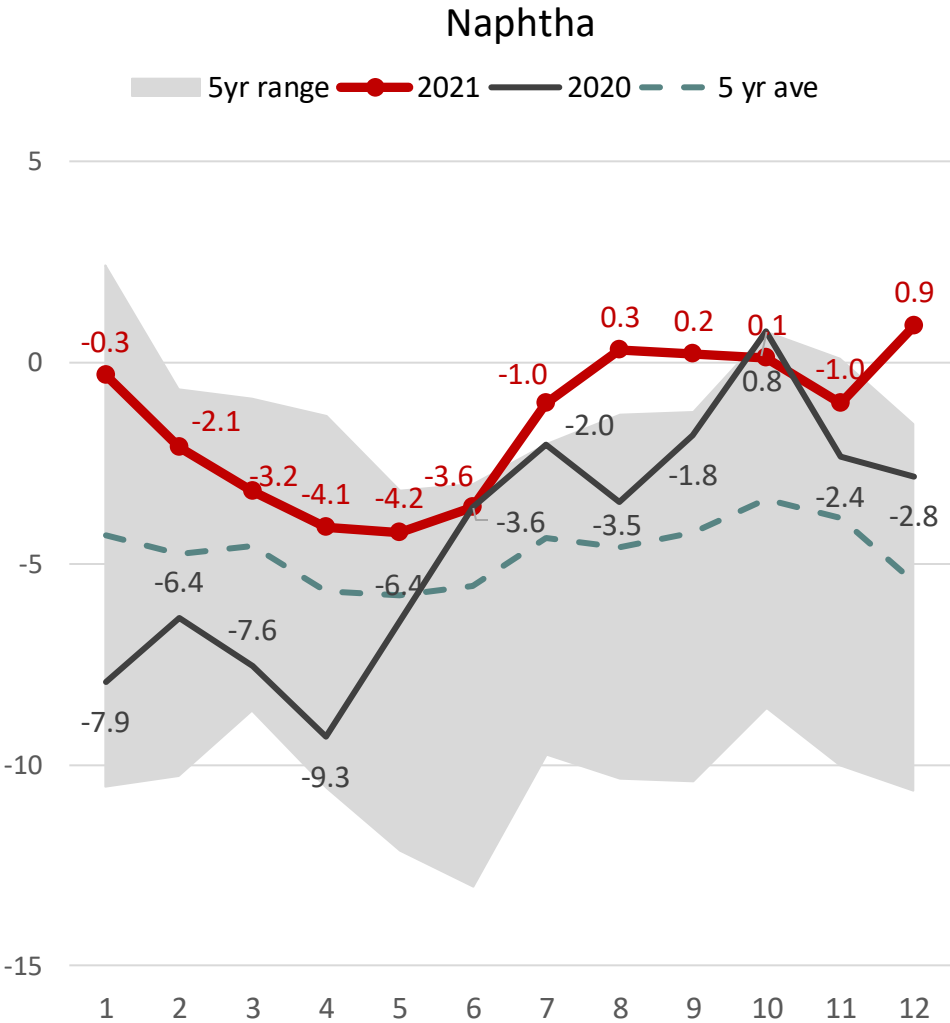
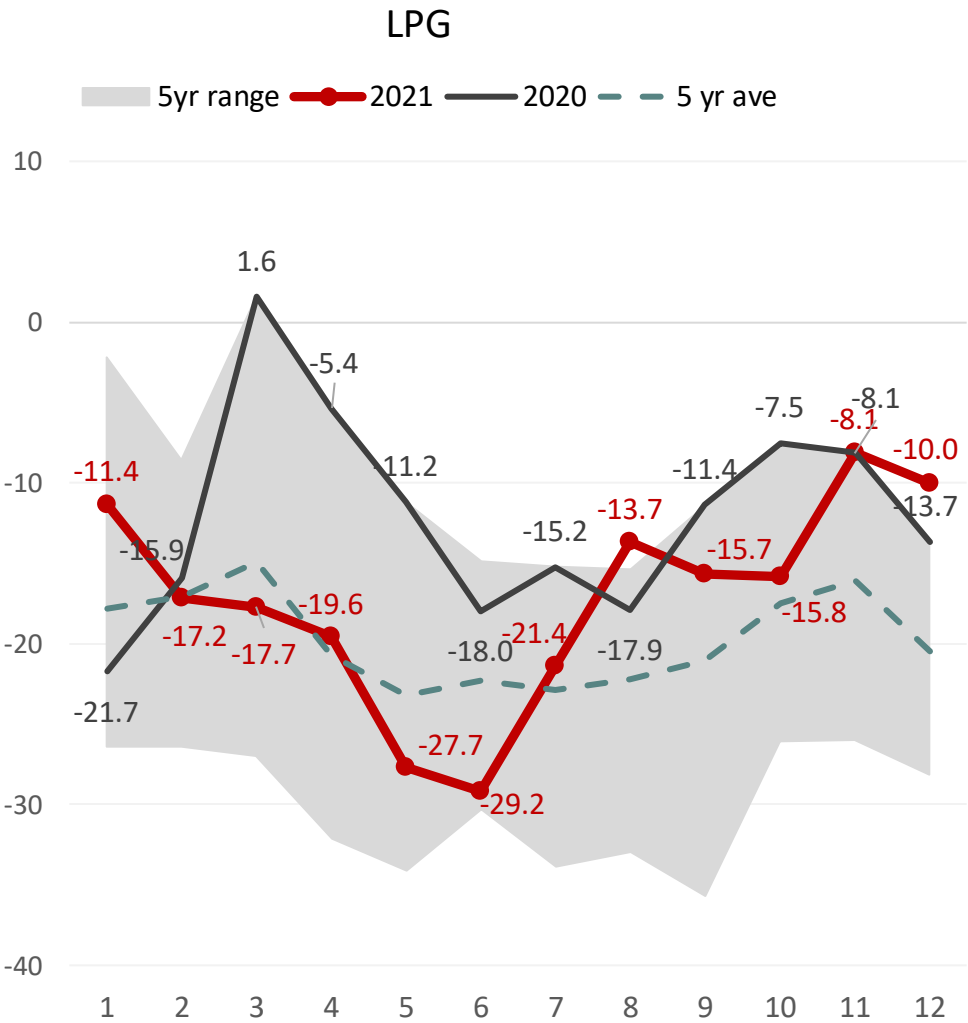
Governance Excellence



- **9.58** Corporate Governance Rating
- **18%** Female Representation at the Board, **25%** representation is targeted in the next five years
- **20%** Female Representation in Upper and Mid-Level Management.

LPG and Naphtha Cracks

\$/bbl



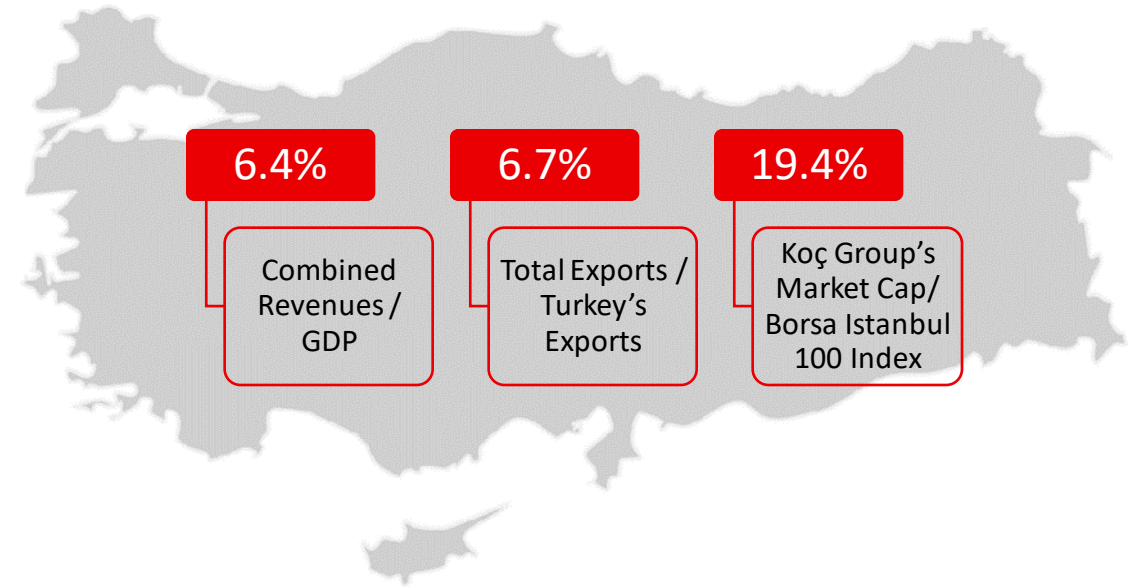
5 yr between 2016-2020
data as of 31 December 2021

Turkey's Leading Investment Holding Company

- Koç Holding is Turkey's largest industrial and services group
- The only Turkish company in Fortune Global 500¹.

Pioneer in its Sectors

- Leading positions with clear competitive advantages in sectors with long-term growth potential such as energy, automotive, consumer durables and finance.



Notes : Data as of YE20

(1) 2020 Report (based on consolidated revenues)





Investor
Presentation

Latest
Webcast



Sustainability
Report

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