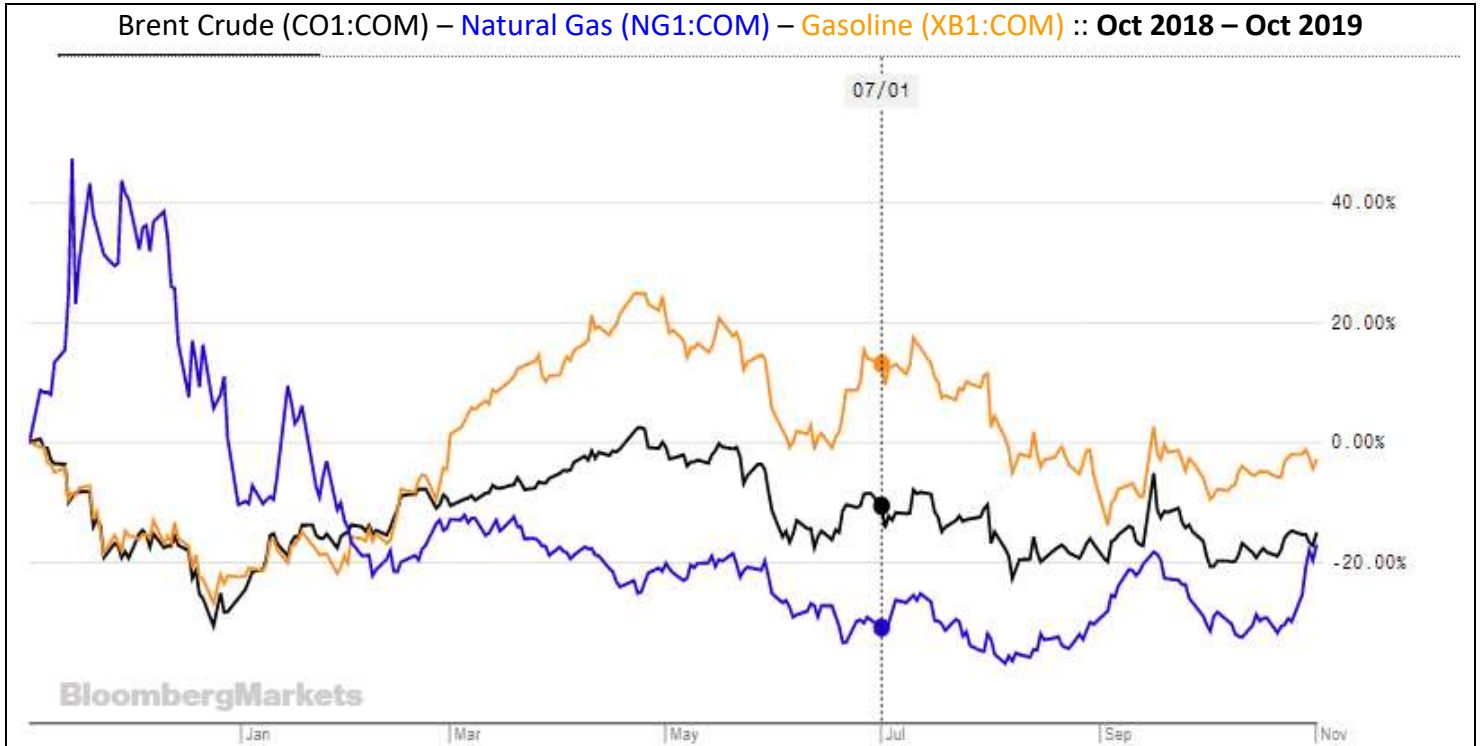


# PAKISTAN ENERGY MARKET DATA - OCTOBER 2019

## Energy Market

Major change that occurred during last one year in Pakistan's energy market is reduced consumption of furnace oil which has been a primary fuel for power sector for decades. Power fuel consumption is shifting towards RLNG from furnace oil, causing a decline in petroleum products import. Other important change is increase in LPG consumption as a substitute fuel for off-grid locations and easy-to-carry fuel for cooking / heating for northern areas in Pakistan.



Source: Bloomberg

## Pakistan's Petroleum Imports – July to September 2019

COMMODITIES	UNIT	* JULY - SEPTEMBER, 2019		JULY - SEPTMBER, 2018		VALUE = ( RUPEES IN MILLION ) ( U.S DOLLARS IN THOUSAND )			% CHANGE IN JULY - SEPTEMBER, 2019 OVER JULY - SEPTEMBER, 2018												
		QUANTITY	VALUE		QUANTITY	VALUE		QUANTITY	VALUE		QUANTITY	VALUE									
			RUPEES	DOLLARS		RUPEES	DOLLARS		RUPEES	DOLLARS		RUPEES	DOLLARS								
PETROLEUM GROUP	-		497,687	3,157,492		469,415	3,783,553														
22. PETROLEUM PRODUCTS	MT	2,349,431	208,154	1,319,891	2,497,400	197,922	1,595,098	-5.92	5.17	-17.25											
23. PETROLEUM CRUDE	MT	1,833,367	127,748	811,087	2,285,998	149,118	1,202,154	-19.80	-14.33	-32.53											
24. NATURAL GAS, LIQUIFIED	-		152,173	965,585		116,532	939,194														
25. PETROLEUM GAS, LIQUIFIED	-		9,606	60,891		5,835	47,042														
26. OTHERS	-		6	38		8	65														

Source: Pakistan Bureau of Statistics

Note-1: Assuming LNG DES Price of USD 400 per MT (2019) and USD 500 per MT (2018), the quantity of LNG import in 1<sup>st</sup> Quarter 2019 is 2,413,963 MT as against 1,878,388 MT in 2018.

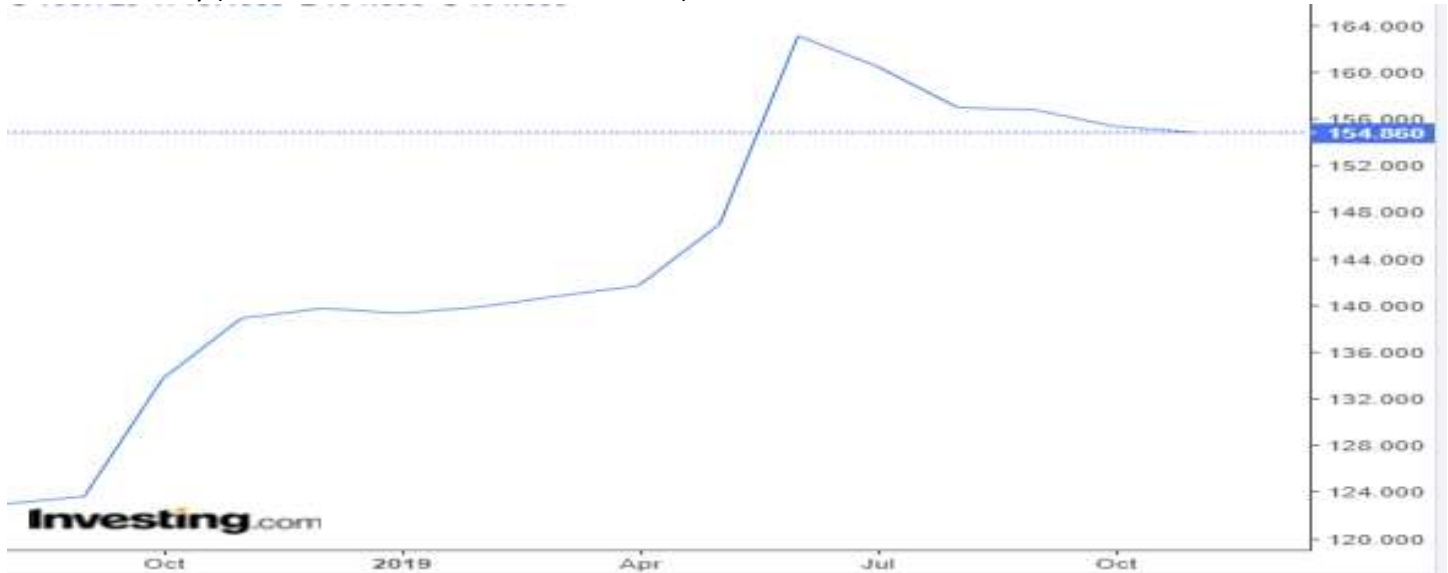
Note-2: Assuming LPG CIF Price of USD 450 per MT (2019) and USD 600 per MT (2018), the quantity of LPG import in 1<sup>st</sup> Quarter 2019 is 135,311 MT as against 78,403 MT in 2018.

# PAKISTAN ENERGY MARKET DATA - OCTOBER 2019

## Local Energy Prices

Despite downward trend in fuel prices in international market, a sharp decline in PKR parity against USD was a major cause of fuel price hike in Pakistan in first six months of 2019. PKR is gaining strength since July 2019 and is currently valued at PKR 155 to USD 1. Fuel prices are expected to fall during remaining part of FY 2019 – 2020.

USD – PKR Parity (Period: October 2018 to October 2019)

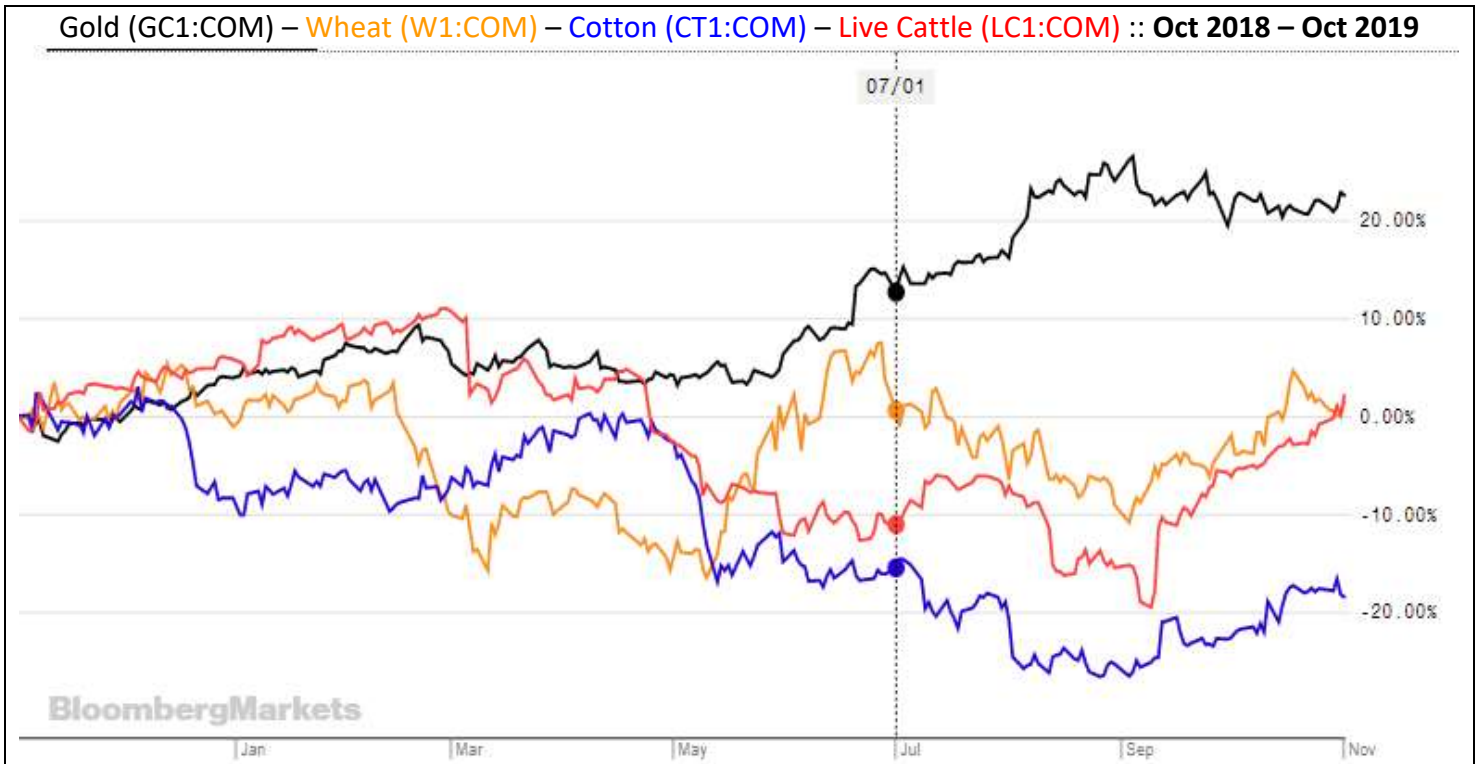


Source: Investing dot com

Energy Source	October 2018	October 2019
Natural Gas (Domestic Consumer)	PKR 121 – 1,460 per MMBTU	PKR 121 – 1,460 per MMBTU
Natural Gas (Institutions, Mosques)	PKR 780 per MMBTU	PKR 780 per MMBTU
Natural Gas (Commercial Consumer)	PKR 980 per MMBTU	PKR 1,283 per MMBTU
Natural Gas (Industrial Consumer)	PKR 780 – 980 per MMBTU	PKR 1,021 – 1,283 per MMBTU
Natural Gas (Zero Rated Exporter)	PKR 600 per MMBTU	PKR 786 per MMBTU
Natural Gas for CNG (Input Price)	PKR 980 per MMBTU	PKR 1,283 per MMBTU
Natural Gas (Ind. Power Producer)	PKR 629 per MMBTU	PKR 824 per MMBTU
Natural Gas (Captive Power)	PKR 780 per MMBTU	PKR 1,021 per MMBTU
RLNG – SNGPL (Trans / Distribution)	USD 11.5898 / 12.5389 per MMBTU	USD 9.6395 / 10.7230 per MMBTU
RLNG – SSGCL (Trans / Distribution)	USD 11.1502 / 12.5292 per MMBTU	USD 9.2422 / 10.7105 per MMBTU
LPG	PKR 141,800 per MT	PKR 125,054 per MT
MoGas	PKR 92.83 per Liter	PKR 113.24 per Liter
HSD	PKR 121.27 per Liter	PKR 157.5 per Liter
Kerosene	PKR 83.5 per Liter	PKR 99.57 per Liter

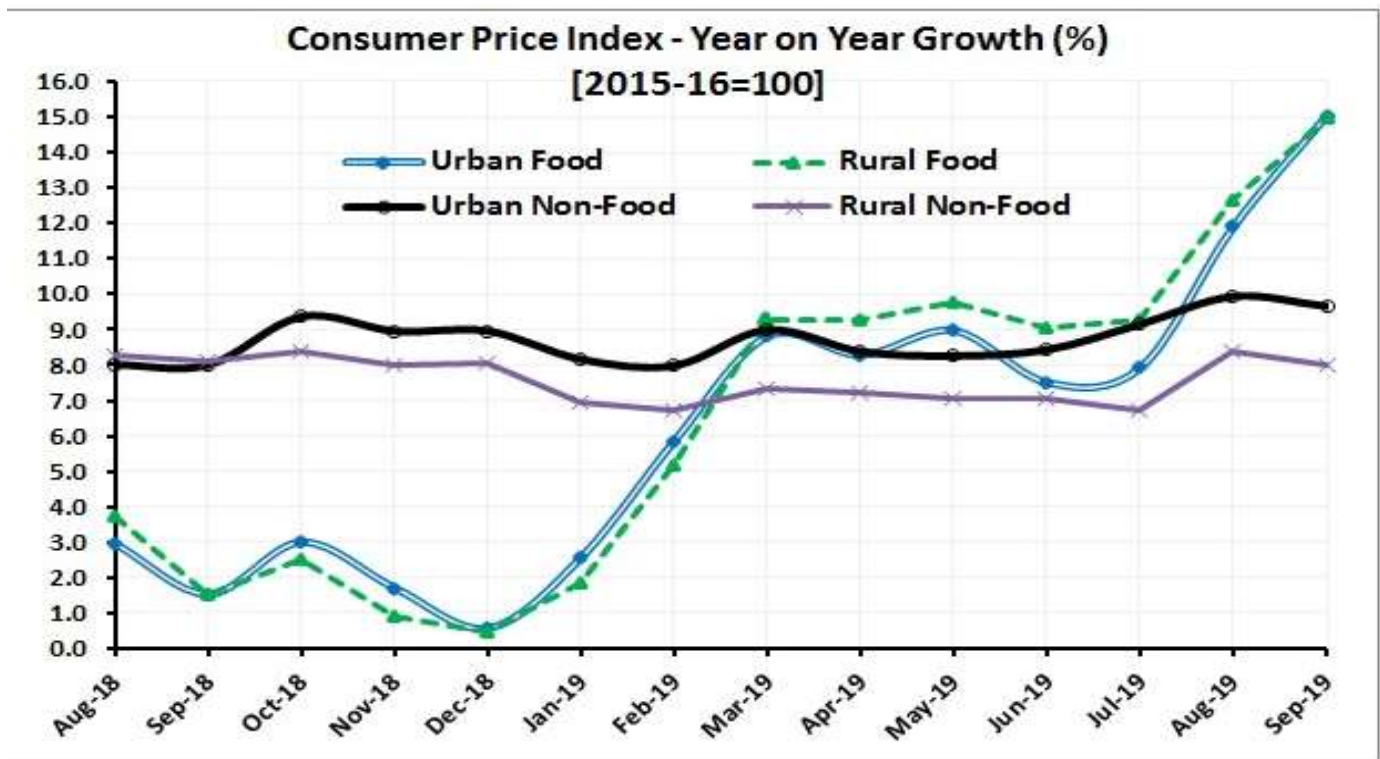
Source: OGRA, PSO

## Commodity Market



Source: Bloomberg

Pakistan CPI - % rise over FY 2015-16



Source: Pakistan Bureau of Statistics

Except for gold prices, commodity prices remained stable over a year-to-date with over 15% decline in cotton prices. A sharp decline, decline during first six months of 2019, in PKR parity against USD was a major cause of rising CPI in Pakistan. PKR is gaining strength since July 2019 and is currently valued at PKR 155 to USD 1. CPI is expected to fall during remaining part of FY 2019 – 2020.

## Technical

Following conversions are helpful for evaluation / analysis of energy sector data. Energy engineers will continue to populate these conversions based on readers' feedback:

- British Ton = Long Ton = 2240 lbs
- US Ton = Short Ton = 2000 lbs
- MT = Metric Ton = 1000 kg = 2205 lbs
- Black Oils – Black oils include crude oil, furnace oil, fuel oil, tar and asphalt
- White Oils – White oils include Benzene, Kerosene, HSD and Motor Spirit
- 1 M.Ton of LNG = 2.174 m<sup>3</sup> LNG = 1.3 MSCM gas = 46 MSCF gas (= 49.42 MMBTU @ 1050 BTU/SCF)
- 1 M.Ton of Motor Spirit = 1359 Liters <sup>1</sup>
- 1 M.Ton of HSD = 1195 Liters <sup>2</sup>

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<sup>1</sup> Assuming density of Motor Spirit as 740 kg / m<sup>3</sup>

<sup>2</sup> Assuming density of HSD as 854 kg / m<sup>3</sup>