

2019/EWG57/030 Agenda Item: 9c

Asia Pacific Energy Research Centre Oil Report 2019

Purpose: Information Submitted by: APERC



57th Energy Working Group Meeting Manila, Philippines 23-24 May 2019





9.c. (1/2) APERC Oil Report 2019

The 57th Meeting of APEC Energy Working Group (EWG) Taguig City, Philippines, 23-24 May 2019

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Outline

Demand

APEC oil demand outlook 2021

Supply

• APEC oil supply outlook 2021

Key factors influencing oil market

- Falling crude prices continue?
- Brent-WTI spread
- US shale oil development
- OPEC vs non-OPEC production cut

Commercial issues

- Quality standard harmonization of gasoline and diesel
- APEC import dependence



APEC accounted for 52% of global oil demand in 2016



- Global oil consumption reached 4,557 Mtoe in 2016 (1.0%).
- Demand growth in APEC for the past 10 years was 0.31% versus the rest of the world at 1.8%.



APEC oil demand growth was led by China and SEA



- Transportation has been both the dominant and growing sector in APEC during 2007-2016.
- APEC slowdown due to declining demand in USA and Japan while China and SEA demand is growing strong.





Source: APERC analysis and IEA 2018



APEC oil demand will shift more to Asia in the coming years



Source: APERC analysis and IEA 2018

China's growth is projected to be largest in APEC contributing to 25% share of APEC in 2021.



APEC accounted for 40% of global oil supply in 2016



Source: APERC analysis and IEA 2018

- Global oil supply increased faster than demand to reach 4,473 Mtoe in 2016 (1.1%).
- Supply growth in APEC for the past 10 years was 2.1% (vs 0.31% demand).
- USA, Russia, and Canada accounted for 74% of APEC supply with significant contribution from US shale.



APEC oil supply will shift more to North America



APEC supply growth +2.0% p.a. 1,997 Mtoe @2021 supply center **→** North America APEC demand growth +0.79% p.a. 2,455 Mtoe @2021 demand center **→** Asia





Key factors influencing oil market

- Falling crude prices
- Brent-WTI spread
- US shale oil production
- OPEC and non-OPEC production cut



Bearish oil market sentiment could continue in 2019?



Crude oil prices, 2007-2018

- Oil price has fallen for the past few years driven by:
- shale oil supply expansion
- diminished oil demand from slowdown of economic growth
- *scepticism about compliance with production cut agreement by OPEC and non-OPEC (OPEC+)*



Source: IEA (2018b) and IEA (2019)

Brent-WTI spread has varied substantially since 2011



Brent-WTI spread, 2007-2018

Source: IEA (2018b) and IEA (2019)

- *The unprecedented spread in 2011-2013 is largely explained by:*
- Factor suppressed WTI a build-up of crude oil stocks in the USA because of shale revolution and limited takeaway capacity
- Factor inflated Brent Arab Spring

Brent-WTI spread once again has widened since 2017 because of:

a shortage of pipelines to carry oil out of the Permian basin in West Texas, USA



Shale oil has made US less import dependent

- Total US crude production was 11.8 MBD in 2018, 87% of growth was by shale oil production.
- EIA forecasted that US crude production would reach 13 MBD in 2020.

US crude production, 2014-2018



Sources: EIA (2018c), EIA (2018d), EIA (2019b) and Baker Hughes (2018)



Future oil demand growth is challenged by uncertainties



- Joint production cuts by OPEC and non-OPEC (OPEC+) producers in January 2017 forced crude prices up in March 2018.
- OECD commercial stock was below the five-year average.
- Strong demand growth is increasingly challenged by remaining uncertainties: US sanctions on Iranian crude exports, USA-China trade war, and OPEC+ compliance rate.





Commercial issues

- Harmonization of gasoline and diesel specs
- APEC import dependence



Differences in gasoline and diesel specs hinder trade

- Different quality standards for gasoline and diesel have been adopted and traded in APEC economies.
- Utilising fuels with common standards in APEC will contribute to more dynamic product trades.





- Harmonization of APEC oil specifications can alleviate:
 - APEC oil trade barriers
 - Environmental emissions
 - APEC energy security



APEC import dependence improved significantly over the years



APEC crude import dependence, 2007-2016



APEC crude import dependence by economy, 2016



APEC crude import dependency has decreased from 34% to 31% in the past decade, while it has been self-sufficient in oil products since 2011.



Conclusion

- The supply centre in APEC is shifting more to North America while the demand centre in APEC is moving to Asia.
- While USA is bringing the total APEC import dependency down, China is counteracting this to take the total APEC import dependency up.
- Bearish oil market sentiment could continue in 2019?
- Oil demand growth is increasingly challenged by many uncertainties:
 - US sanctions on Iranian crude exports
 - USA-China trade war
 - OPEC+ production cut and its compliance rate





Thank you for your kind attention.

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