

What to look out for in the storage sector in 2023

Macro impacts

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About Channoil Energy



At the forefront of the global oil and gas advisory industry for over 20 years. Extensive coverage of Europe, Middle East and Africa.

About us:

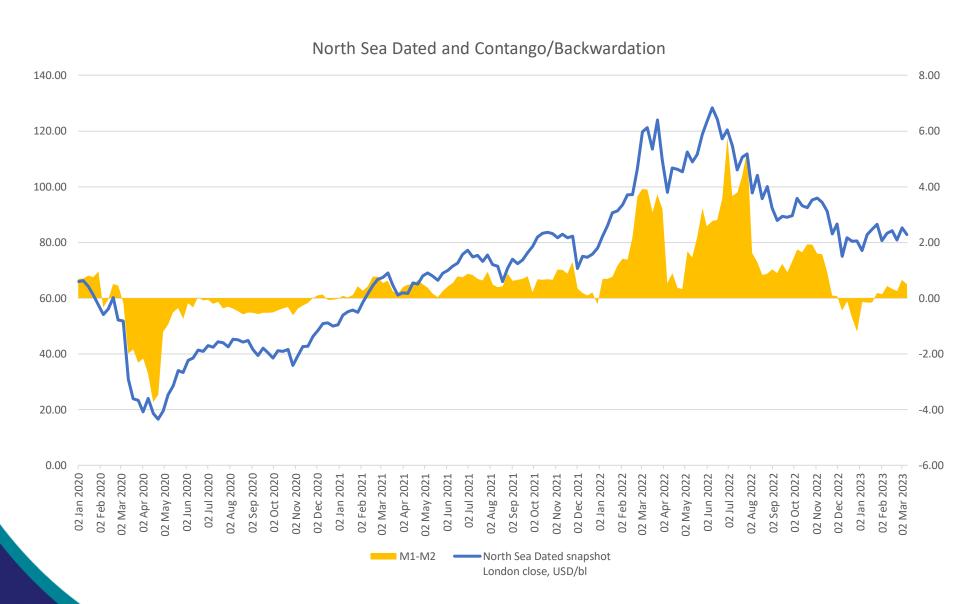
- We consult for countries, governments, institutions and companies.
- All aspects of mid and downstream oil and gas.
- Emerging renewables practice.
- Established industry relationships and strong market contacts.
- Up-to-date knowledge of international and domestic oil and gas markets.
- Senior team members have more than 30 years experience in the downstream oil business.
- Supported by a highly-skilled team of associate consultants.



What's driving demand this year?



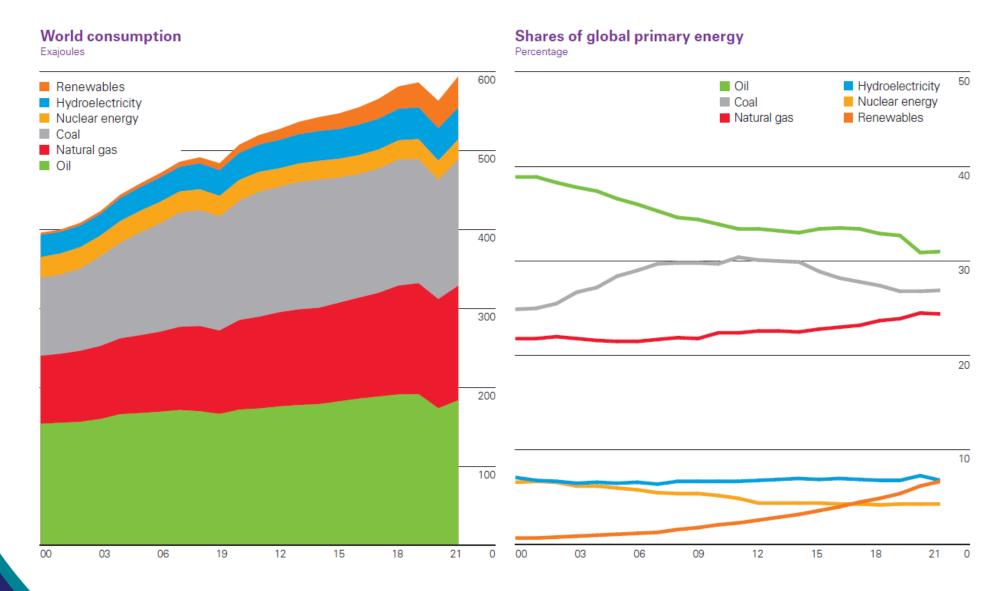
The calm after the storm ...



Source: Argus Media

Plus ça change ...



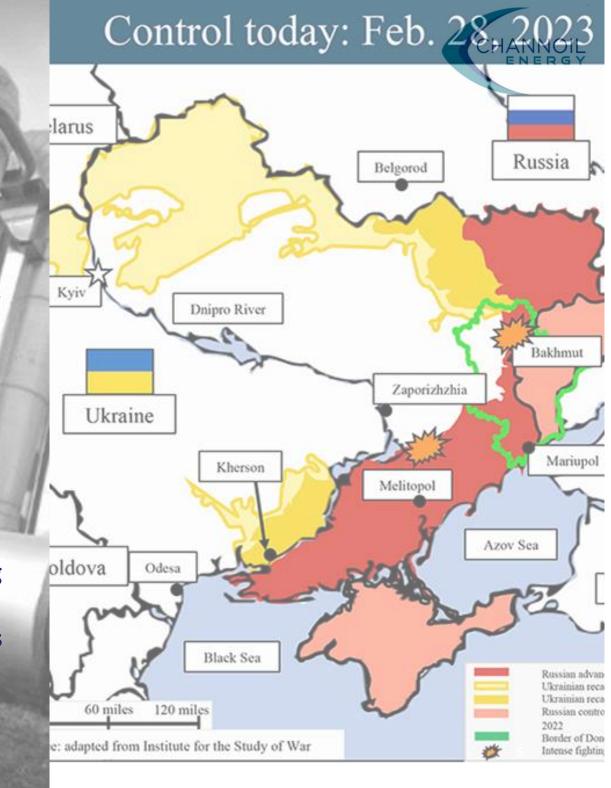


Impact of Ukraine war

 Major turbulence in energy markets

Record profits for trading houses

- EU and USA sanctions
- Longer voyage times
- Cross-flows of oil
 - Crude oil from Russia to Asia
 - Jet/Diesel from Asia to EU
- Sanctions and regulatory avoidance – relocation of trading houses
- Increased likelihood of shortages and price spikes.





Economic recovery

- Winter weather in Europe has been kind to a stressed system.
 - Consumer nations stockpiled natural gas.
 - LNG imports were less expensive than feared due to lower economic activity in China.
- Oil prices declined ...
- ... easing inflationary pressure.
- What about the impact of China's economic recovery?
 - Increasing flights operating in China.
 - Refineries have started to buy crude oil again.
 - Steel and aluminum prices are rising.
- Consequently, banks are forecasting crude oil prices between \$90 and \$110/bbl for the second half of 2023.
- But have the markets over-anticipated?

Biofuels – energy transition or supply security?

- 2022 a scramble for security of supply.
- For the EU what to do with RED II / Fit for 55?
- Relaxation of key targets, notably:
 - Higher percentages.
 - Moves away from crop-based biofuels.
- Sweden and Finland have either frozen or reduced their mandates for 2023.
- A year has arguably been lost.
- Renewable energy part of Europe's way out of Russia dependency.
- The energy transition agenda will recover, if not catch up with where it was.



Ammonia / Hydrogen

- Biofuels the fossil fuel industry's sticking plaster?
- Neither crop nor waste-based fuels can replace the other 95% of fossil fuel demand that are not satisfied by biofuels.
- New energy systems and solutions will be required.
- Enter hydrogen, with ammonia as the support act.
- Ammonia is well understood as a chemical with established handling procedures.
- Blue hydrogen and ammonia will be stepping-stones to green.
- Early adopters will be major energy consumers such as steel works.
- Emerging uses to reduce fossil fuel emissions:
 - Diesel injection
 - Coal fired power
- Where are the early adopters?





Conclusions

- Fears of recession are over-stated (probably).
- Ripple effects of economic recovery in China.
- Diesel supply is highly stressed.
- Energy transition pathways have been delayed (again).
- Renewable capacity is coming ...
- ... but where are the off-takers?
- The technology that wins is not necessarily the greenest.



THANK YOU!

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