
Energi og bærekraft

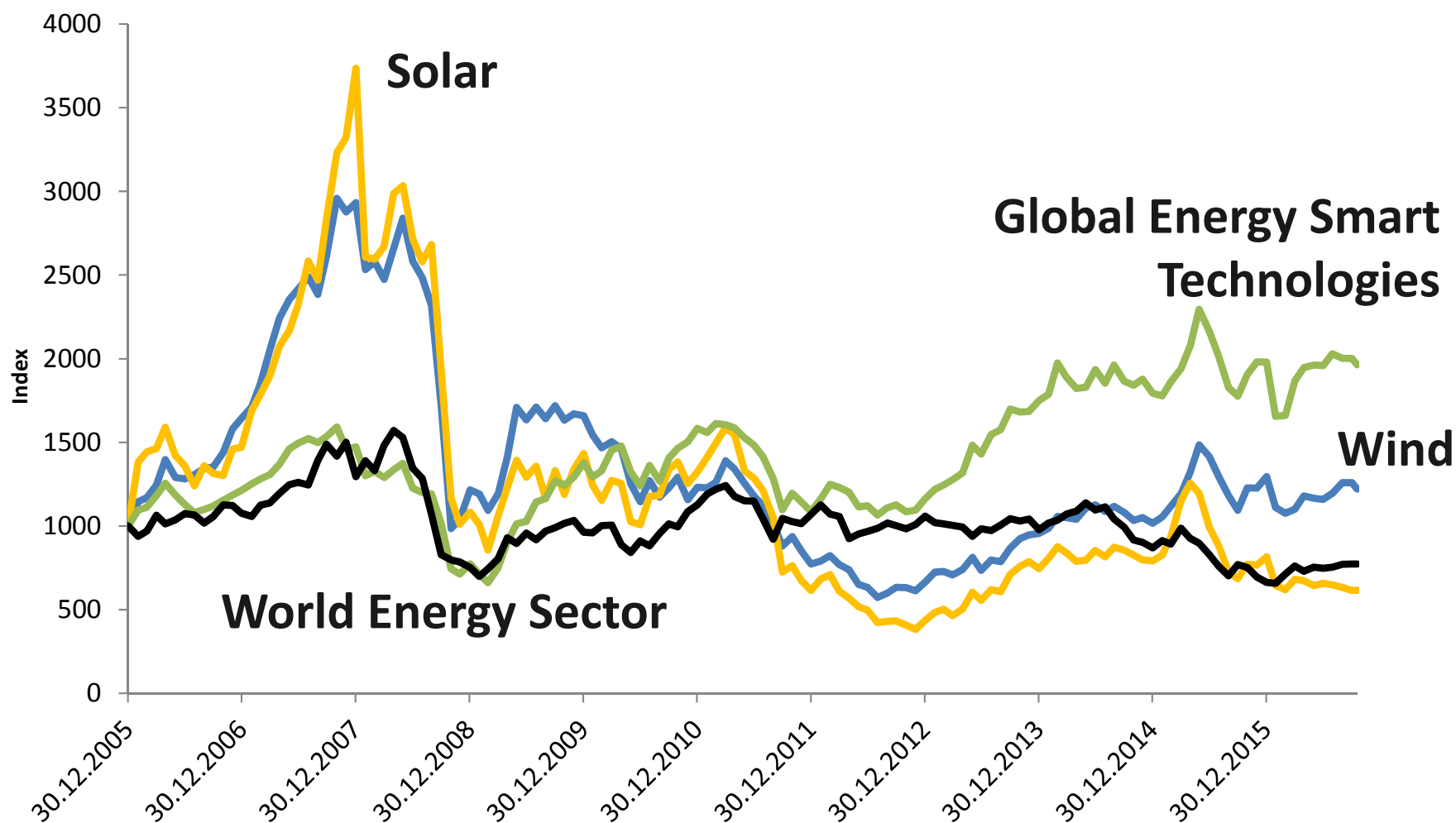
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Nordea 
Markets

November
2016

Interessen for energi smarte løsninger som digital energi, transport, energieffektivisering og energilagring øker



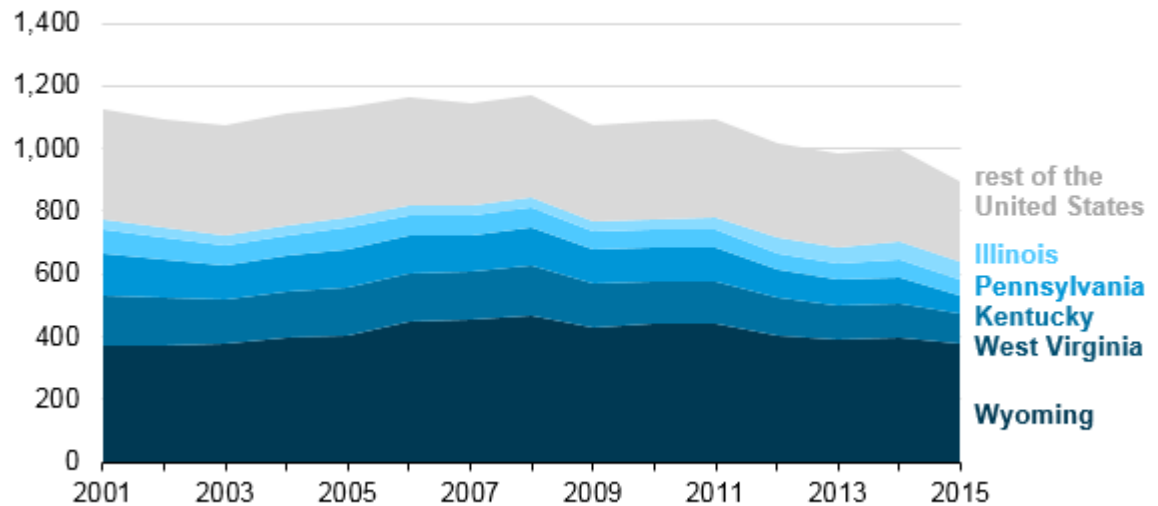
Vil Trump snu opp ned på hele energikomplekset? Amerikansk kull møter konkurranse fra billig skifergass og fornybar



Coal production has fallen by 20% y-t-d so far in 2016, consumption by 26% for the first 7 months of 2016 ...

U.S. coal production in top five states and rest of country (2001-15)

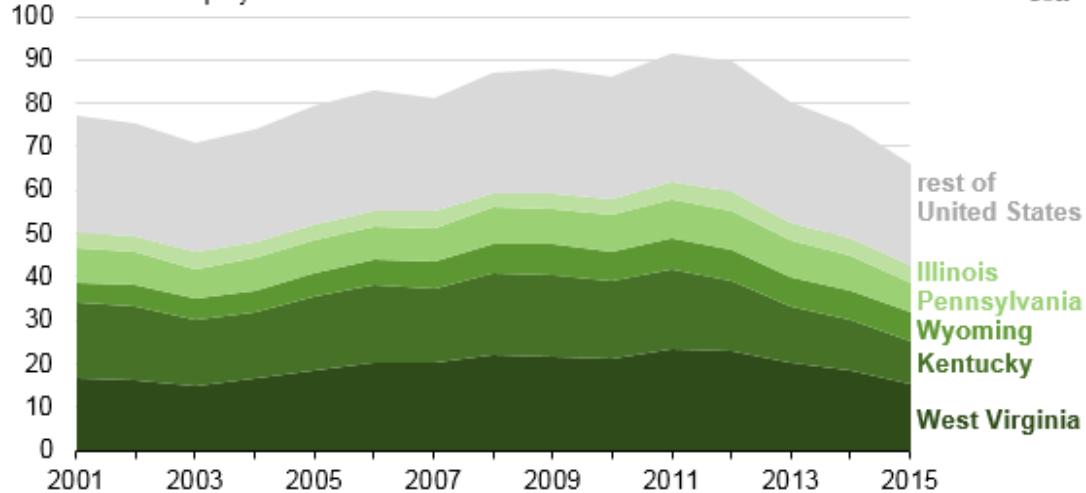
million short tons



Source: U.S. Energy Information Administration, *Annual Coal Report 2015*

U.S. coal mining employment in top five states and rest of country (2001-15)

thousands of employees



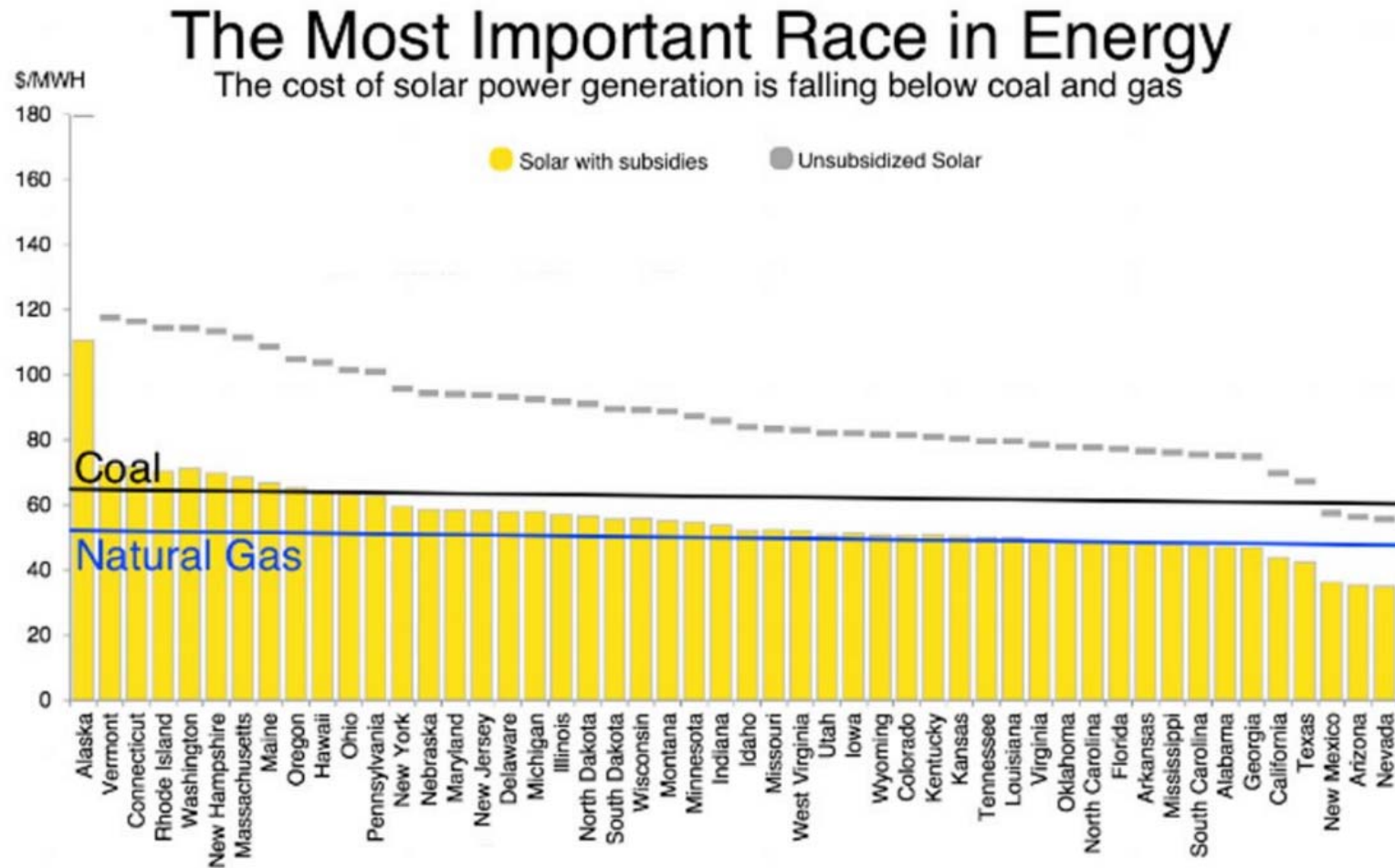
Source: U.S. Energy Information Administration, *Annual Coal Reports from 2001 to 2015*



...and employment by 12% or 66 000 workers in 2015.

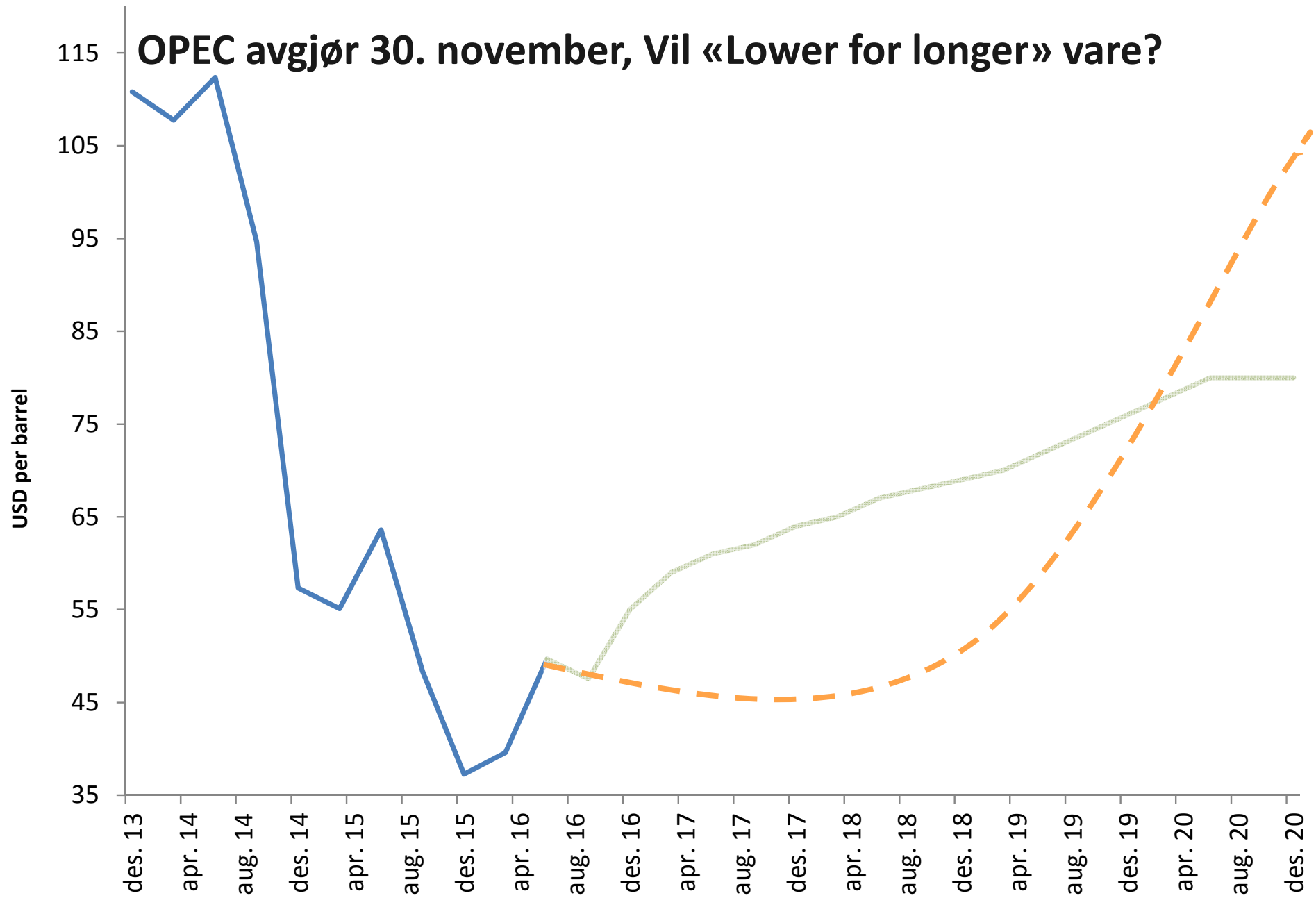
Source: EIA

Trump kan forsinke, men ikke stoppe utviklingen. Kostandene på sol faller raskt – også i USA



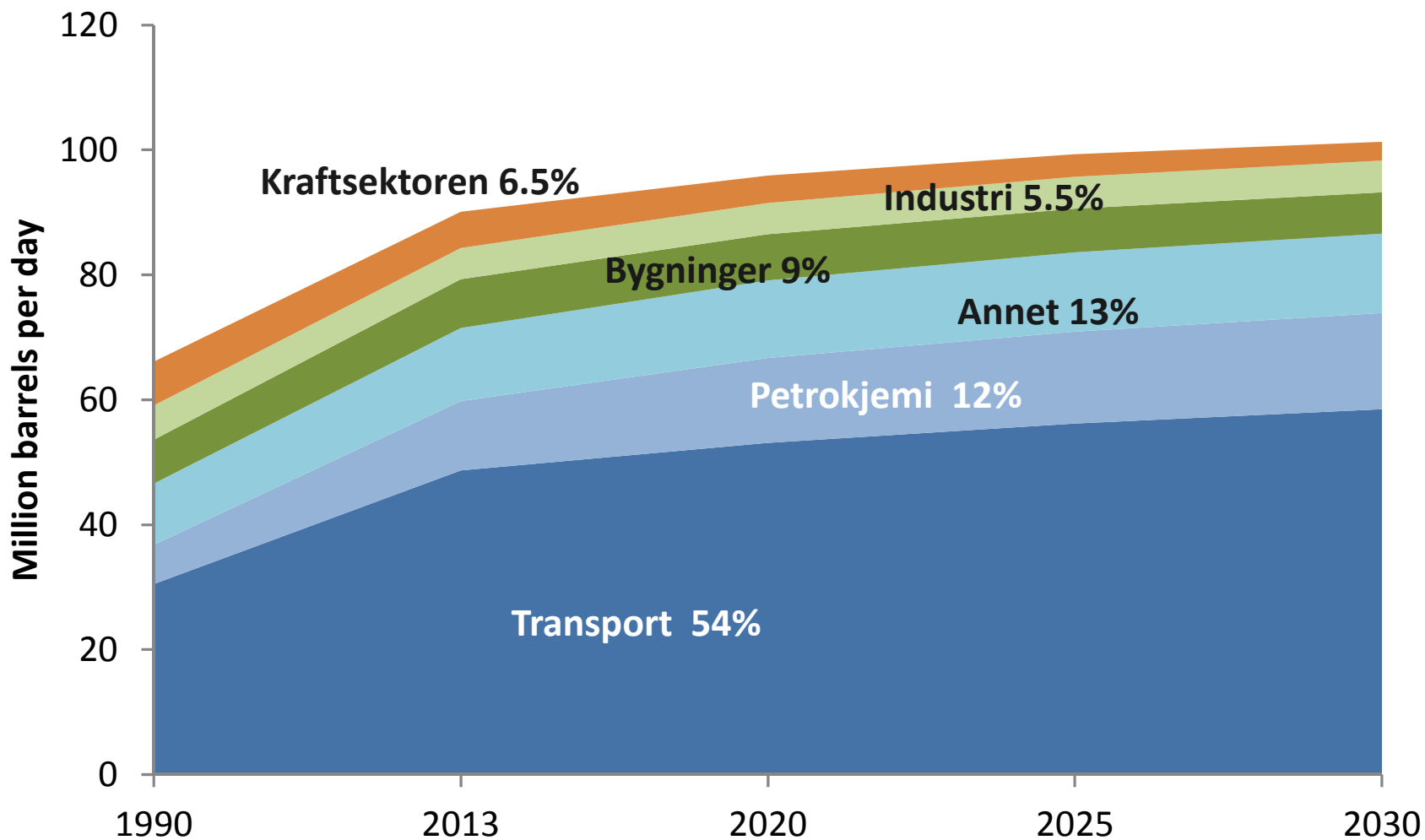
Source: Bloomberg New Energy Finance

OPEC avgjør 30. november, Vil «Lower for longer» vare?



Er vi helt avhengige av olje?

Transport er oljemarkedets siste skanse, men ikke for lenge



GRØNNE TRANSPORTLØSNINGER

Hurtigrutens lydløse hybridskip



Selfa: Fiskebåt på el-kraft/hybrid



Olympic Energy: PSV på elektrisitet



Marie Jone og Lindanger – verdens første metallskip Kilde: Sysla

BRYTNINGSTEKNOLOGI VIL GJØRE SLUTT PÅ VÅR OLJEAVHENGIGHET

Hybrid: Vision of the fjords

Brødrene AA



Photo: Sverre Hjørnevik

3D printing



Elektrisk buss



Veier for å lade el-batterier



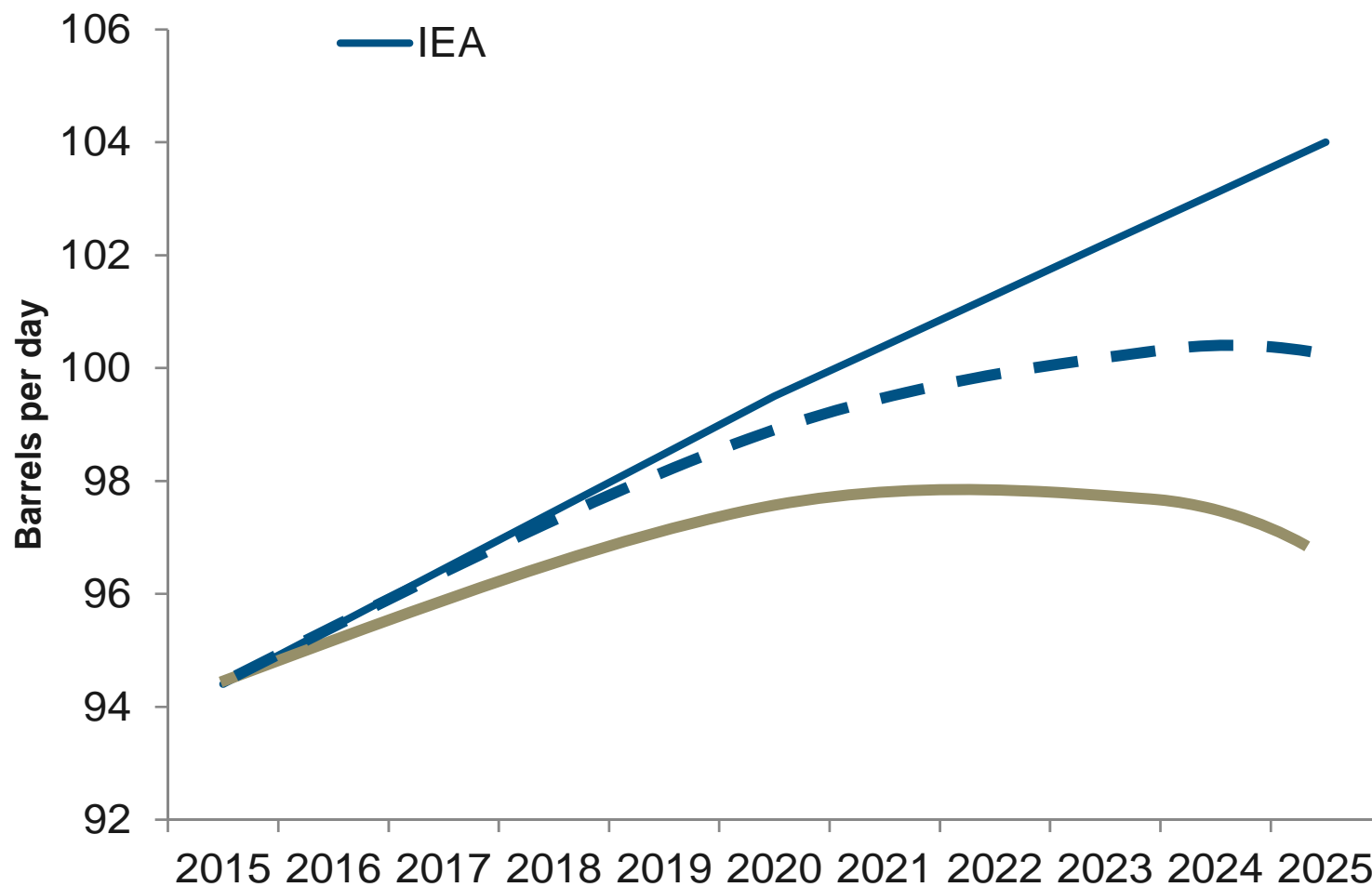
Batteriteknologi



Nå er Norges første selvkjørende buss i Stavanger



IEA etterspørsel scenario – “no change”, elektriske biler og 3D printing





Nye selskaper



Google

Digitalisering



SAIC MOTOR



Alibaba.com



Tradisjonell bilindustri

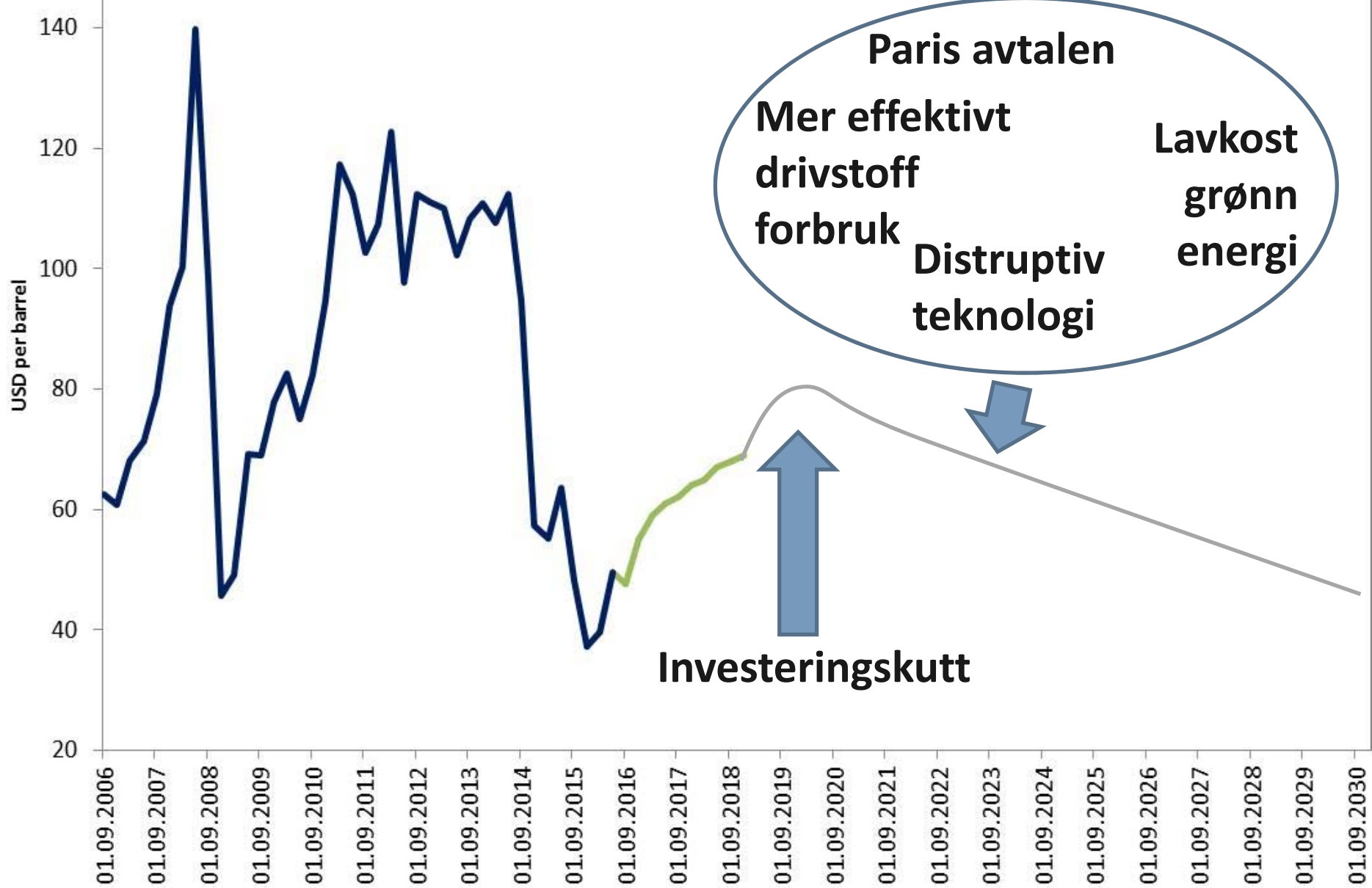


Disruptiv teknologi



MARKETS

Oljeprisscenario basert på at oljeetterspørselen når en topp før 2030



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