



Geopolitikk, krig, konkurranse og klima ***– overlever Europa krisene?***

Georg E. Riekeles, Associate Director, European Policy Centre

ENERGIRIKE-KONFERANSEN – 6. august 2024

“Right now, there are changes the likes of which we have not seen
for 100 years.
And we are the ones driving these changes together.”

Xi Jinping, 22 March 2023



Kina – mot en ny verdensorden



“... a clear path and push to make China less dependent on the world and the world more dependent on China”

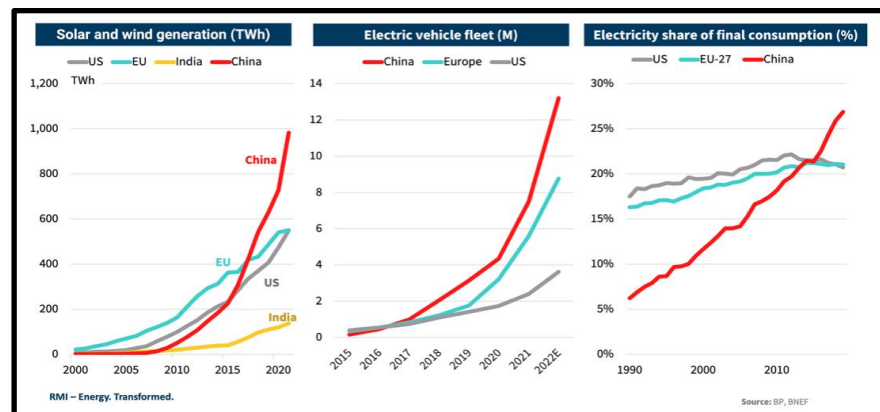
Ursula von der Leyen
Speech on EU-China relations,
European Policy Centre,
30 March 2023

Kampen om makten (1): Kinas enestående, massive ressursmobilisering



- Adopted in 2015, to make China a technology-intensive powerhouse
- 10 key industries
- Spending in trillions \$ through successive 5-year programmes
- Leveraging national champions to secure domestic share & capture global markets

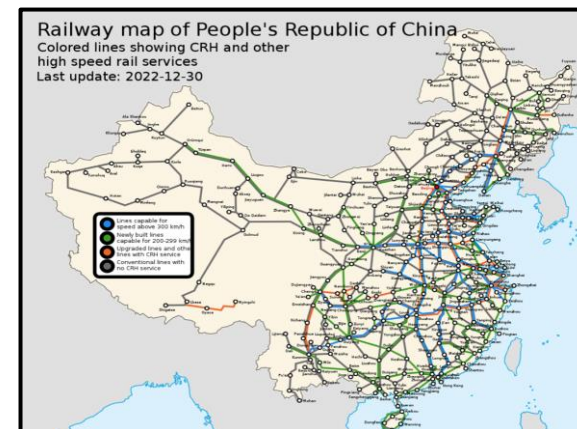
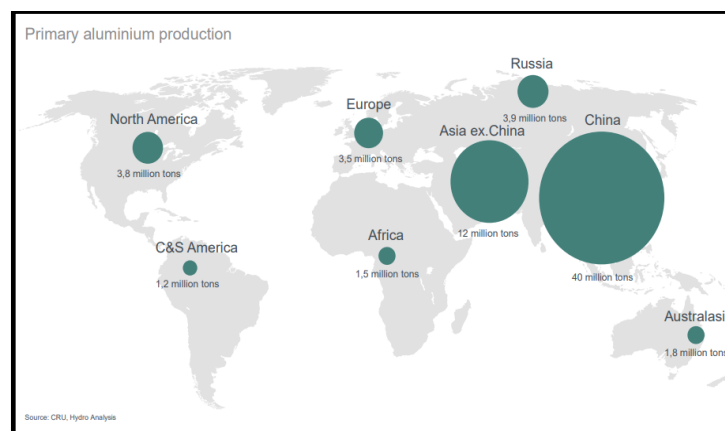
China dominates deployment of renewables



China dominates high speed rail



China dominates global aluminium



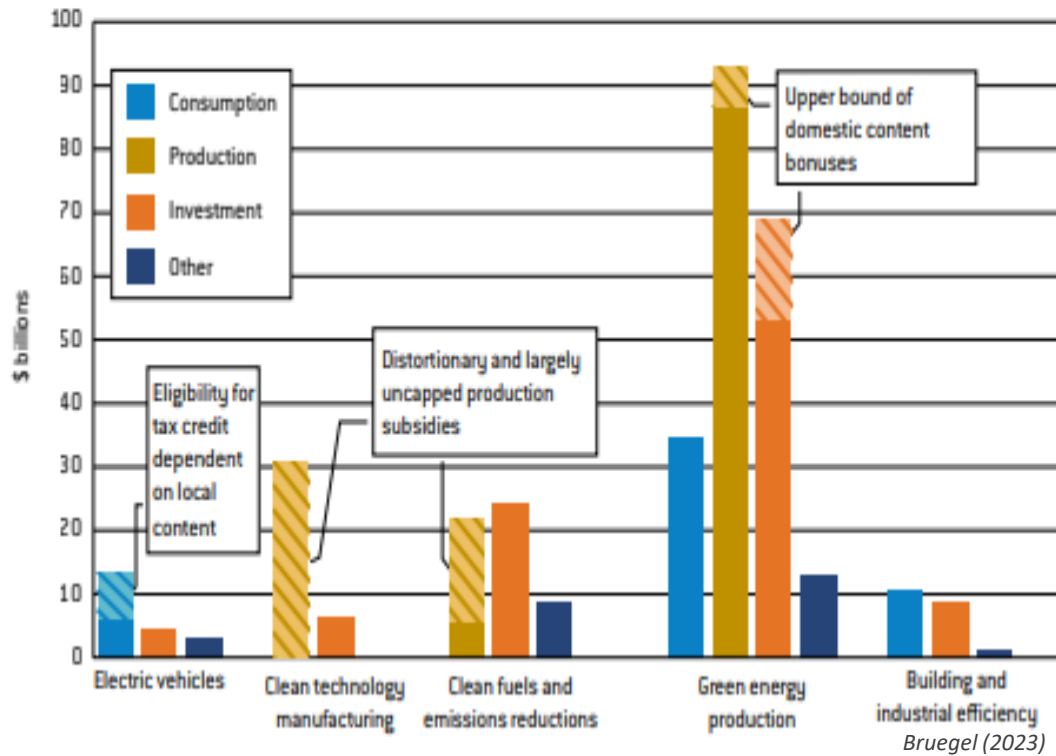
Kampen om makten (2): Kina leder på teknologi

China leads on 37 out of 44 critical technologies ASPI Critical technology tracker (2023)

Technology	Country	Impact
Advanced materials and manufacturing		
1. Nanoscale materials and manufacturing	China	high
2. Coatings	China	high
3. Smart materials	China	medium
4. Advanced composite materials	China	medium
5. Novel metamaterials	China	medium
6. High-specification machining processes	China	medium
7. Advanced explosives and energetic materials	China	medium
8. Critical minerals extraction and processing	China	low
9. Advanced magnets and superconductors	China	low
10. Advanced protection	China	low
11. Continuous flow chemical synthesis	China	low
12. Additive manufacturing (incl. 3D printing)	China	low
Artificial intelligence, computing and communications		
13. Advanced radiofrequency communications (incl. 5G and 6G)	China	high
14. Advanced optical communications	China	medium
15. Artificial intelligence (AI) algorithms and hardware accelerators	China	medium
16. Distributed ledgers	China	medium
17. Advanced data analytics	China	medium
18. Machine learning (incl. neural networks and deep learning)	China	low
19. Protective cybersecurity technologies	China	low
20. High performance computing	USA	low
21. Advanced integrated circuit design and fabrication	USA	low
22. Natural language processing (incl. speech and text recognition and analysis)	USA	low
Energy and environment		
23. Hydrogen and ammonia for power	China	high
24. Supercapacitors	China	high
25. Electric batteries	China	high
26. Photovoltaics	China	medium
27. Nuclear waste management and recycling	China	medium
28. Directed energy technologies	China	medium
29. Biofuels	China	low
30. Nuclear energy	China	low
Quantum		
31. Quantum computing	USA	medium
32. Post-quantum cryptography	China	low
33. Quantum communications (incl. quantum key distribution)	China	low
34. Quantum sensors	China	low

- For some technologies, **all of the world's top 10 leading research institutions are based in China** and are collectively generating nine times more high-impact research papers than the second-ranked country (most often the US).
- China's efforts have been **bolstered through talent and knowledge import**. Now its training system is **largely decoupled**, as there's a **sufficient critical mass of domestic expertise** to train the next generation of top scientists.
- **China's overall research lead**, and its dominant concentration of expertise across a range of strategic sectors, **has short and long term implications for democratic nations**.
- Unchecked, this could **shift not just technological development and control but global power and influence**.

Amerikas tilsvar: *US Inflation Reduction Act* etc.



\$700bn+ US IRA. Significant parts are WTO-breaching



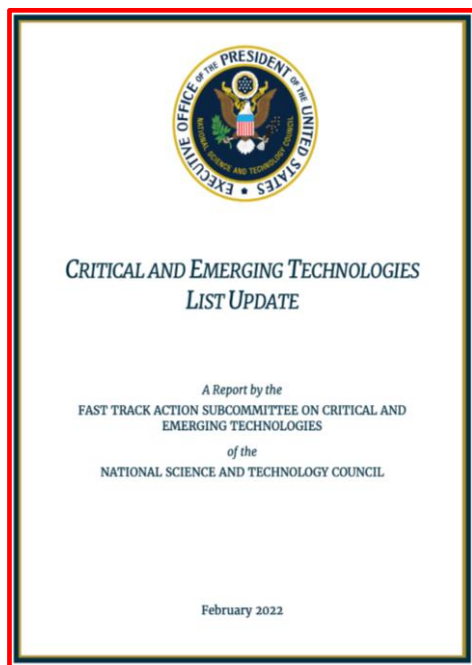
Revisiting the 'Washington consensus'

" ... that markets always allocate capital productively and efficiently – no matter what our competitors did, no matter how big our shared challenges grew, and no matter how many guardrails we took down."

Jake Sullivan, US National Security Advisor
Brookings, 27 April 2023

En verden som deler seg fortere enn vi tror

« Re-/nearshoring »,
« decoupling », « derisking », ...

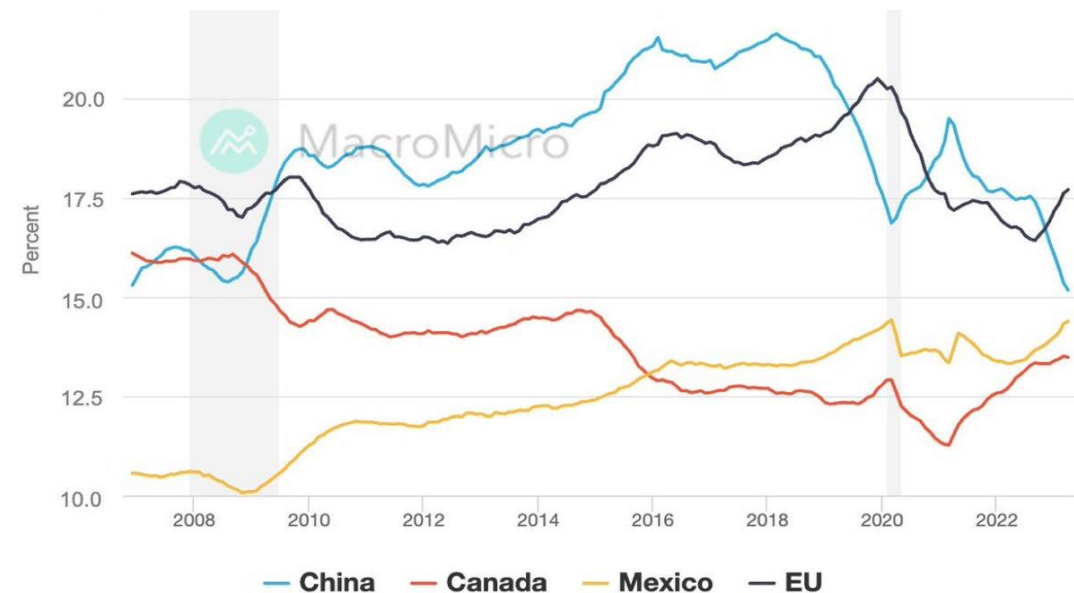


” ... We *previously maintained a “sliding scale” approach* that said we need to stay only a couple of generations ahead. That is **not the strategic environment we are in today.**”

Given the foundational nature of certain technologies, we must maintain as large of a lead as possible.”

Jake Sullivan, US National Security Advisor
Brookings, 16 September 2022

Share of US imports by countries



Trump in 2025: “*Don’t predict, prepare.*”

A trade war and more... announced

- **60% Chinese tariff plan**, if Trump to win a second term in office (“maybe it’s going to be more than that”).
- Reviving the **trade war logic** from his first term (2019: 25% threat on \$300 billion of China imports) but **at much greater scale**.
- Beyond China, a **blanket 10% tariff on all U.S. imports**, including from **Europe**.
- Effectively, the **end to the WTO and international economic relations** as we have known them?



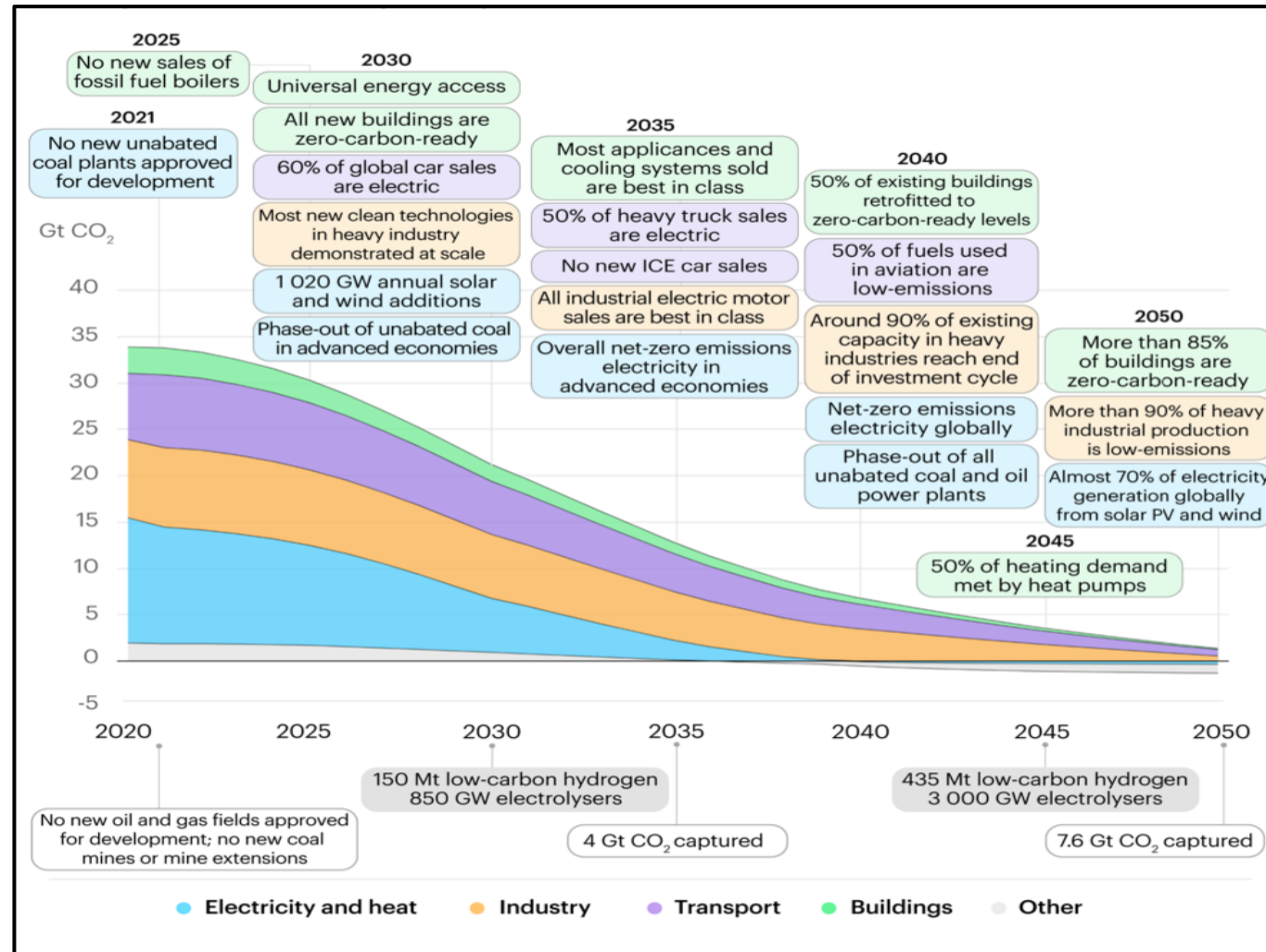


Climate breakdown is here and now



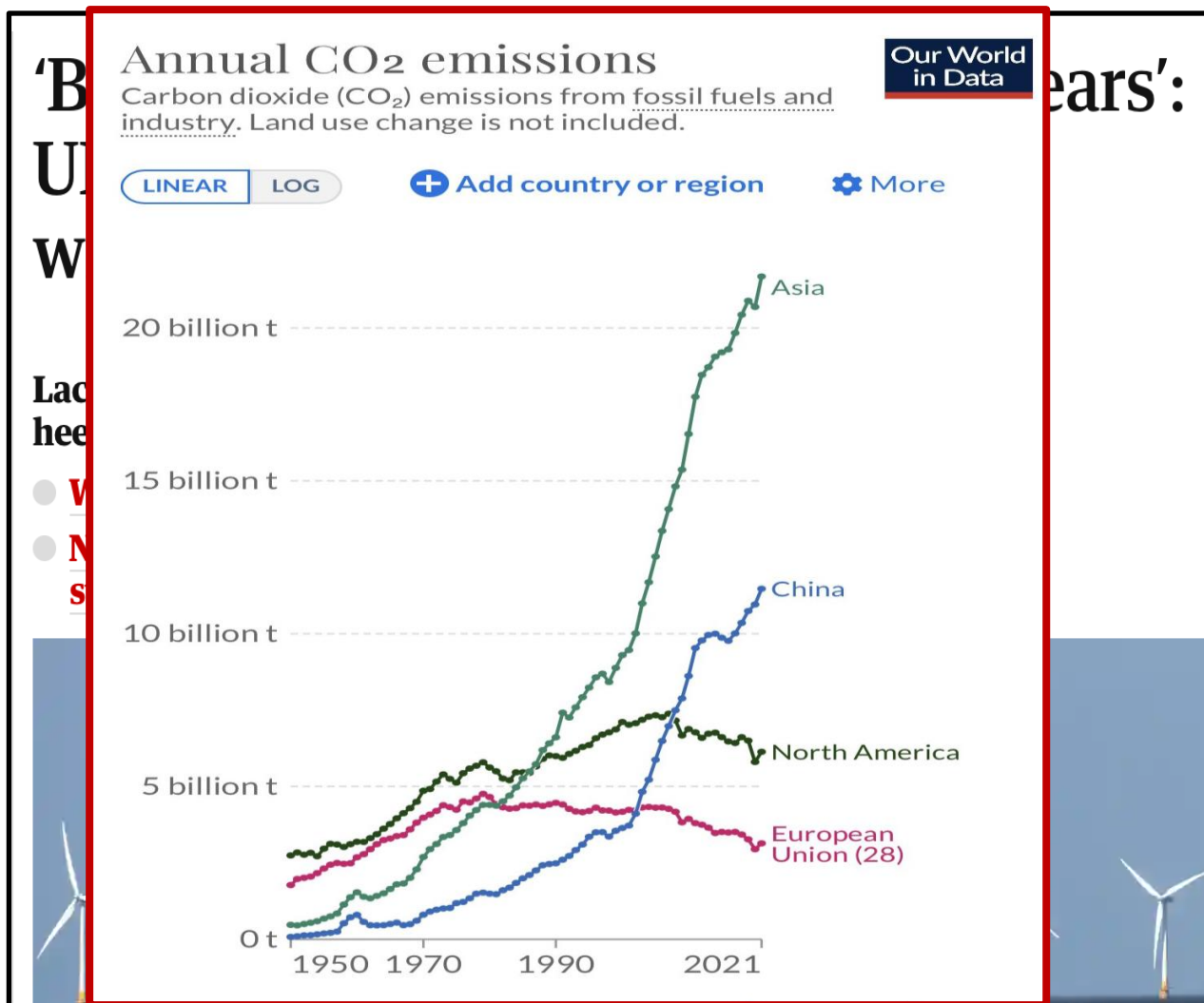
**At 0,01% capacity.
Sierra Boyera Reservoir, Spain**

Vi når *ikke* milepælene mot netto null, en etter en...



Net zero by 2050
IEA Flagship Report,
May 2021

Klimatiltak – stadig mer omstridt



Rishi Sunak announces U-turn on key green targets

UK prime minister delays ban on sale of new petrol and diesel cars as he pushes back net zero goals

● [UK politics live - latest updates](#)



Suella Braverman

Net zero not at expense of 'bankrupting the British people'

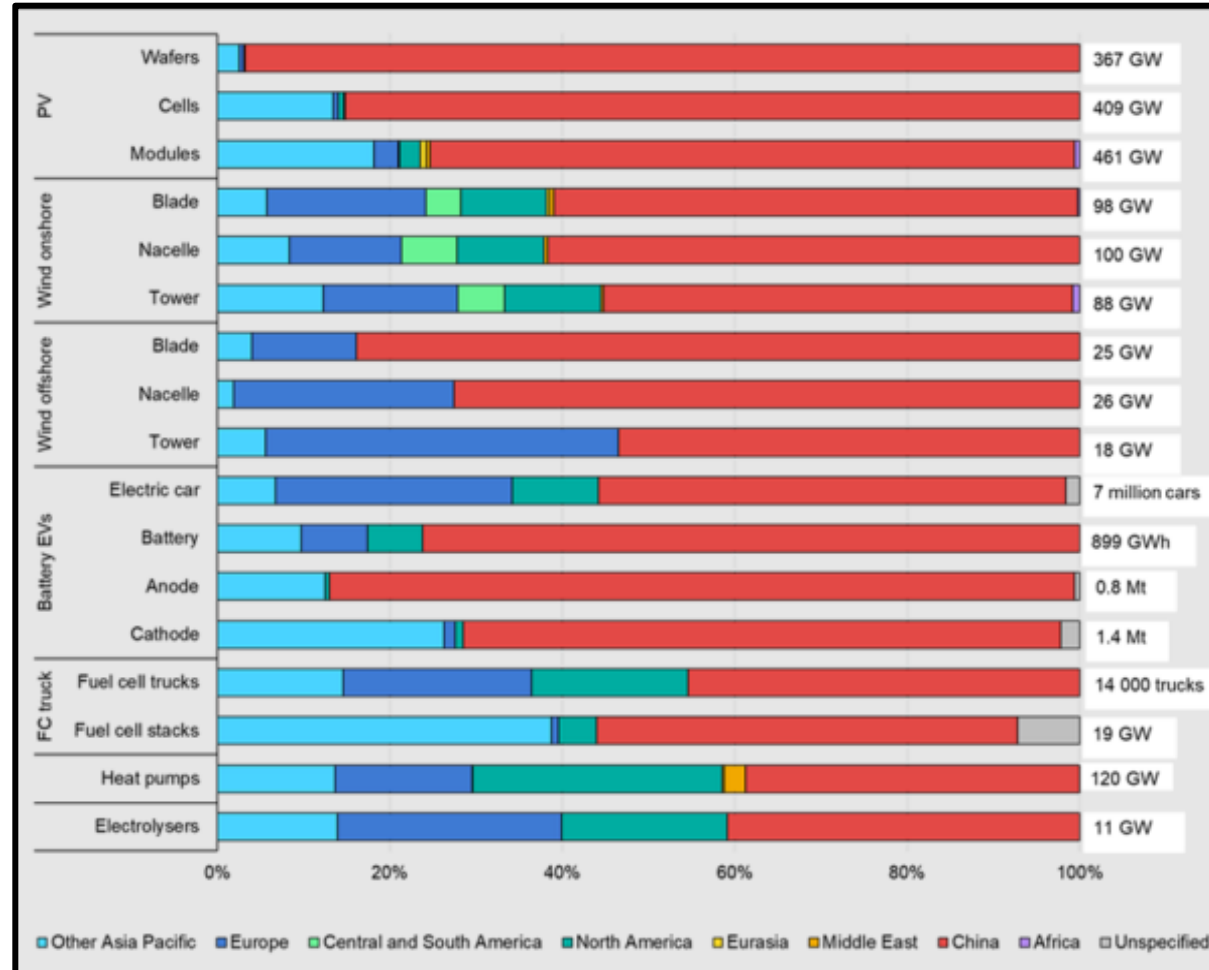
UK's net zero ambitions at risk after 'disastrous' offshore wind auction

Industry figures and the TUC warn of missed carbon reduction targets and lost jobs unless government boosts green investment

Overlever Europa krisene?



Europas svar på en ny verden lar vente på seg



Kampen for fremtidens verdikjeder og økonomisk sikkerhet

Current manufacturing capacity in clean energy technologies.

Krigerer venter ikke alltid til alle stridende er klare



Financial Times (2023)

Ukraina: fra motoffensiv til prekær forsvarskrig

31 December 2023, biggest Russian aerial attacks to date. Ukraine says Russia has launched over 8,000 missiles and 4600 drones since beginning of war.

Ukrainas mangel på materiell

- "According to the armed forces of Ukraine, over the summer of 2023, Ukraine was firing up to 7,000 artillery shells a day and managed to degrade Russia's logistics and artillery to the point where Russia was firing about 5,000 rounds a day.
- Today, the Ukrainians are struggling to fire 2,000 rounds daily, while Russian artillery is reaching about 10,000."

The Guardian (2023)

BREAKING POINT

The EU has failed us all



We must break free of the EU and take back control of our borders.

Leave the European Union 
ON 23RD JUNE

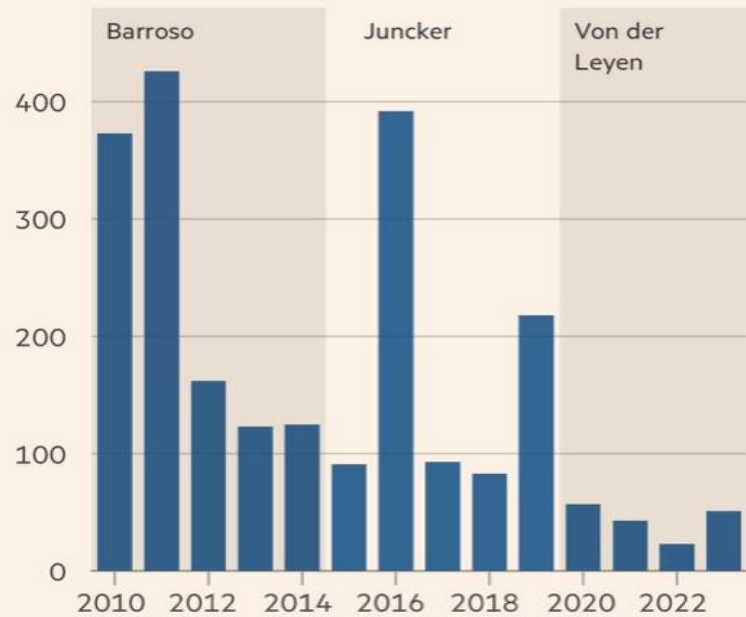


votetoleavetheeu.co.uk

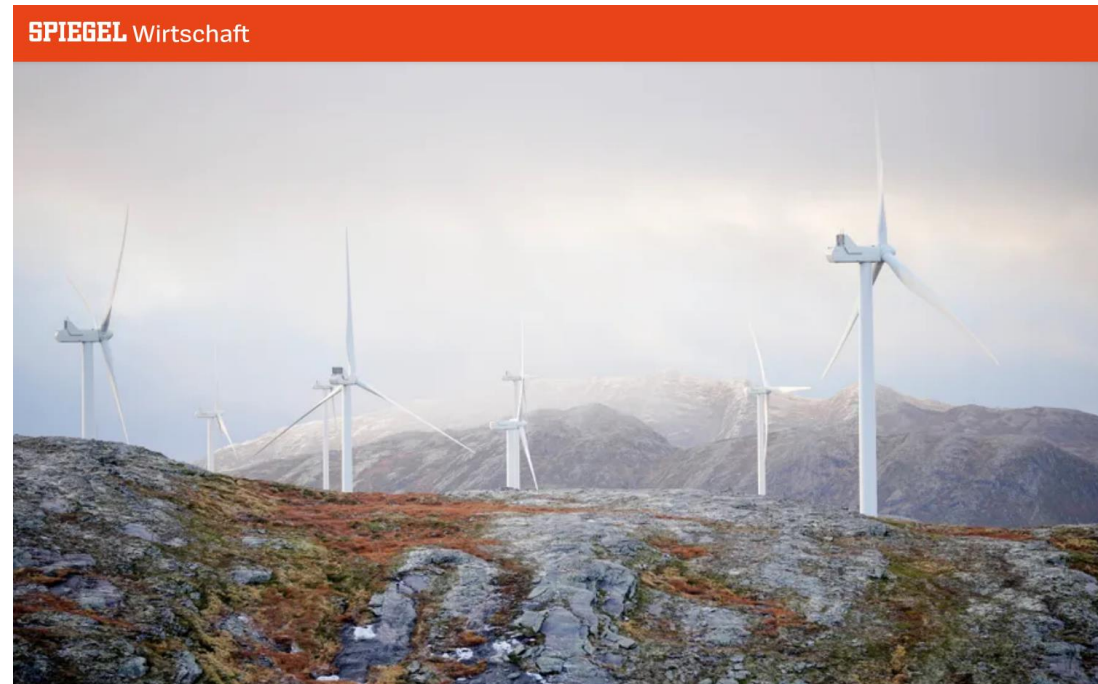
De lange mørke skyggene: økonomisk og politisk fragmentering

European Commission internal market actions have decreased under von der Leyen's watch

Total infringement actions taken by the commission in relation to the internal market excluding case closures



Selvgod er ikke lenger godt nok



SPIEGEL Wirtschaft

: Ole Martin Wold / NTB / picture alliance

**«Strid i energiparadis:
Norge vil ikke være Europas
batteri»**

Der Spiegel, 30 April 2023

Streit im Energieparadies

8+ Norwegen will nicht Europas Batterie sein

Norwegen ist zum größten Energielieferanten Deutschlands geworden und soll in Zukunft noch wichtiger werden. Doch in der Bevölkerung wächst der Widerstand dagegen, die Probleme anderer Länder zu lösen.



Norges «can do», mer enn olje og gass?



17. mars 2023,
EU-Kommisjonspresidenten besøker Troll A.

ENERGIRIKE- KONFERANSEN

Haugesund, 6. august 2024

Georg E. Riekeles
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European Policy Centre

