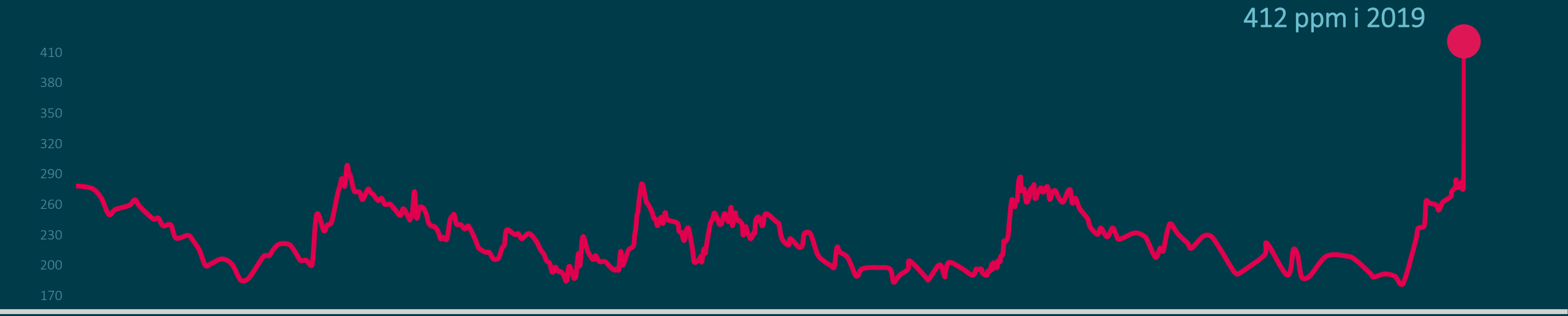
Klimainvesteringer

Lene Elizabeth Hodge – Bærekraftsrådgiver

Avfallsforum Rogaland 19. februar 2020

nysnø



- 400,000

I dag

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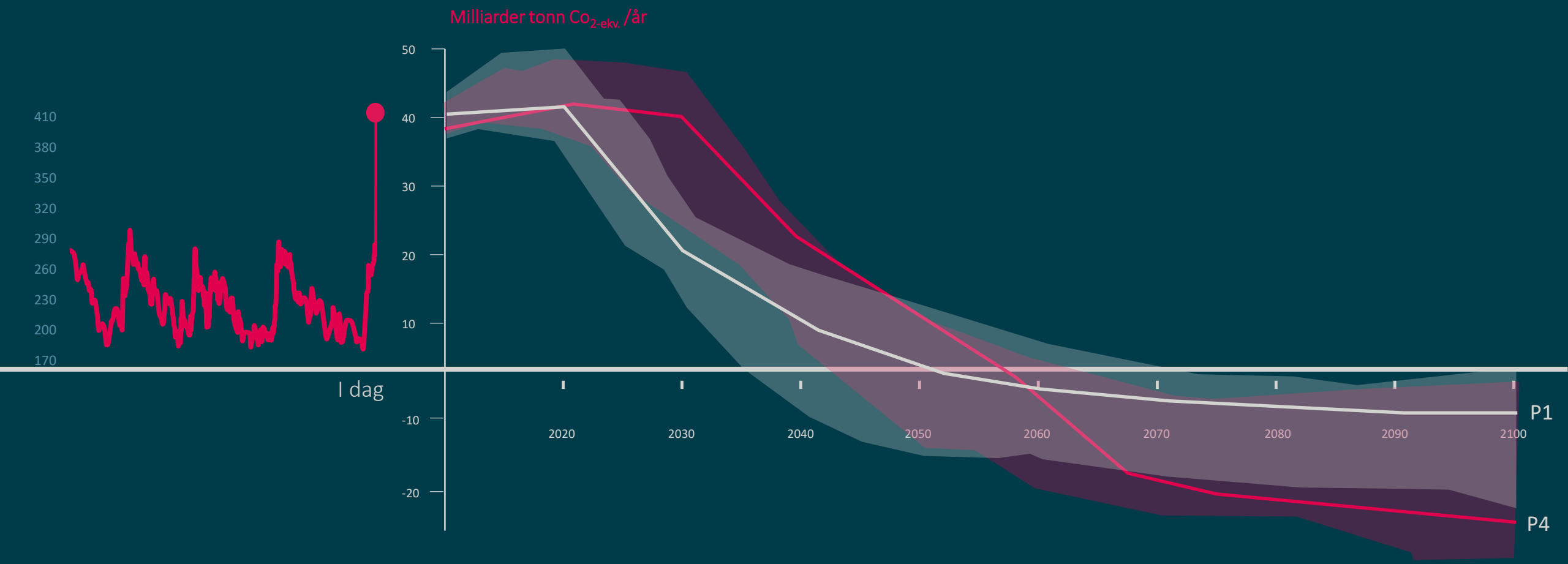

Kilde: IPCC 2018 Model Pathways (P1 / P4) in limiting global warming to 1.5°C by reducing CO_2 emissions to net zero by 2050

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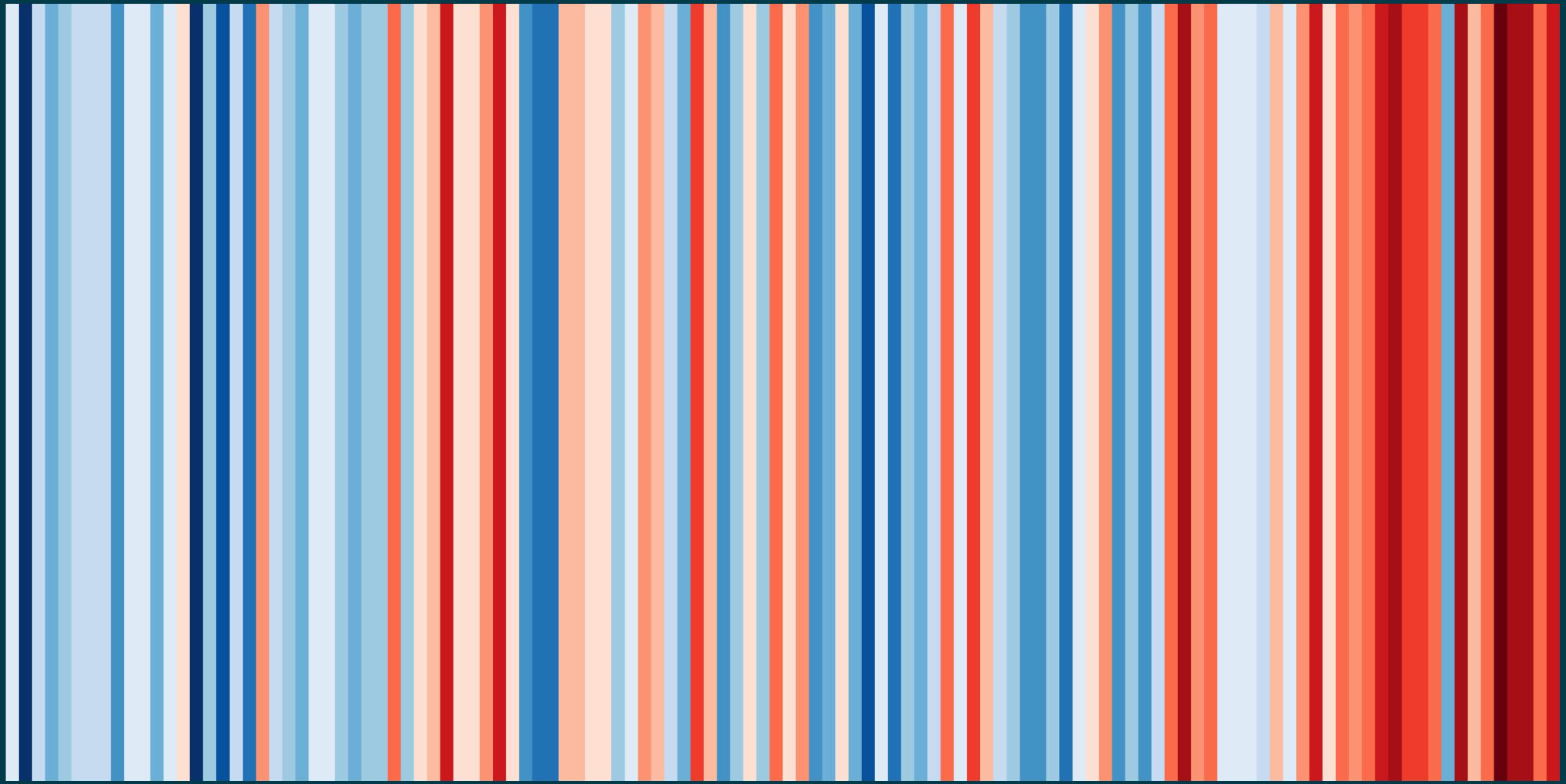

Annual average temperatures for Norway from 1901-2018 compared with the average from 1971 - 2000
Source: Berkley Earth

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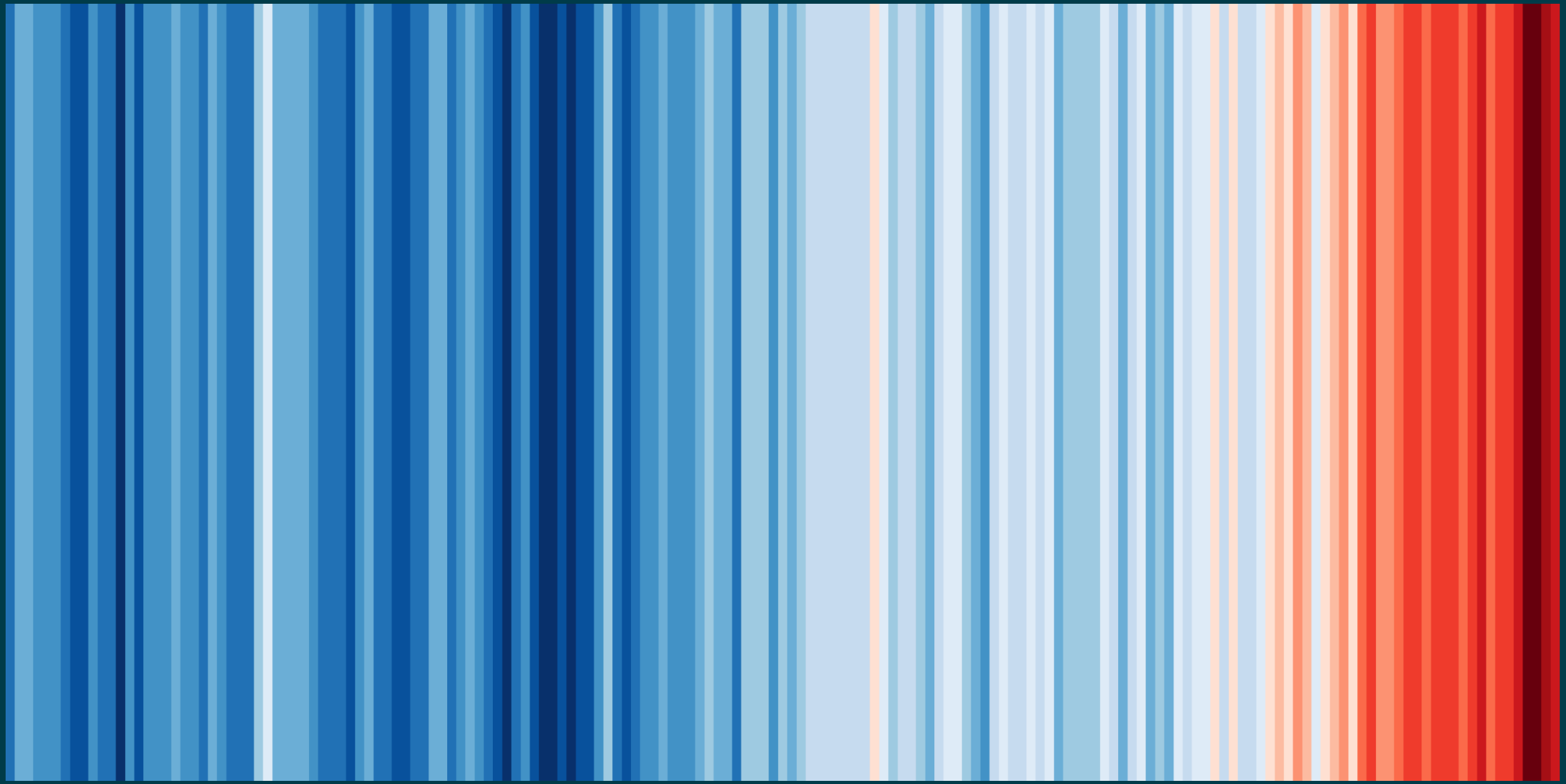

Annual average temperatures for the globe from 1850-2018
Source: UK Met Office

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Hovedmålene i Parisavtalen

Artikkel 2

a) Begrense global oppvarming til under 2°C, og helst under 1.5°C.

b) Tilpasse oss klimaendringene og bygge robusthet og lavere utslipp.

c) Endre verdens kapitalflyt for å ivareta målsetningene over.

nysnø

Investeringsbehov

110.000.000.000.000

USD fra 2016 og 2050

Investeringer for å endre energisektoren i tråd med Parismålene

nysnø

Kilde: IRENA Global Landscape of Renewable Energy Finance 2019

Investeringsbehov globalt

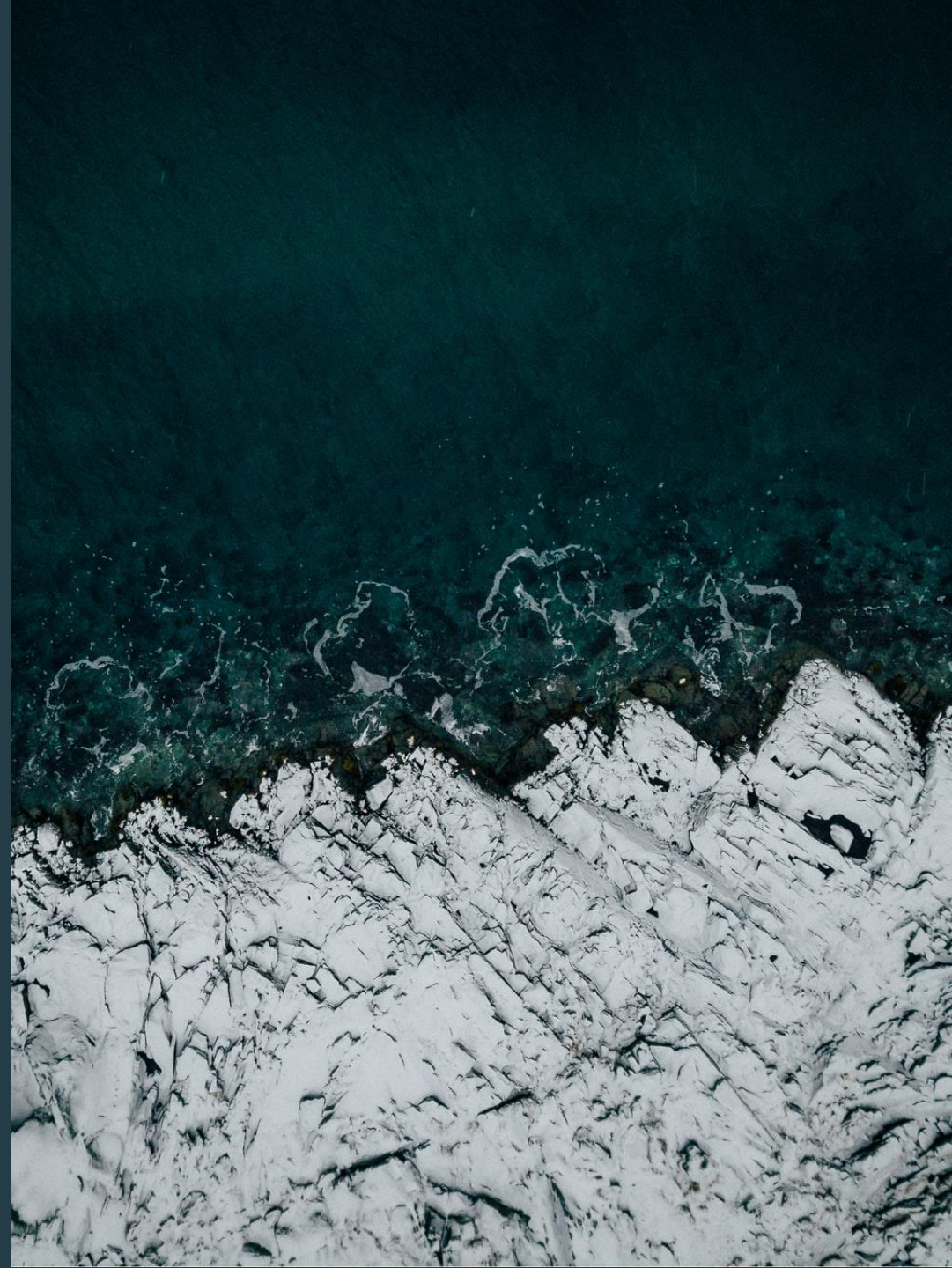
% ■ Fossilt mm. ■ Energieffektivisering ■ Fornybart ■ Elektrifisering og infrastruktur

nysnø

Kilde: IRENA Global Landscape of Renewable Energy Finance (2019)

Nysnø
Klimainvesteringer

- Opprettet 2017, driftet siden 2018
- Kontor i Stavanger
- 9 ansatte
- 1,4 mrd NOK forvaltningskapital
- Eies og forvaltes av staten



Mål

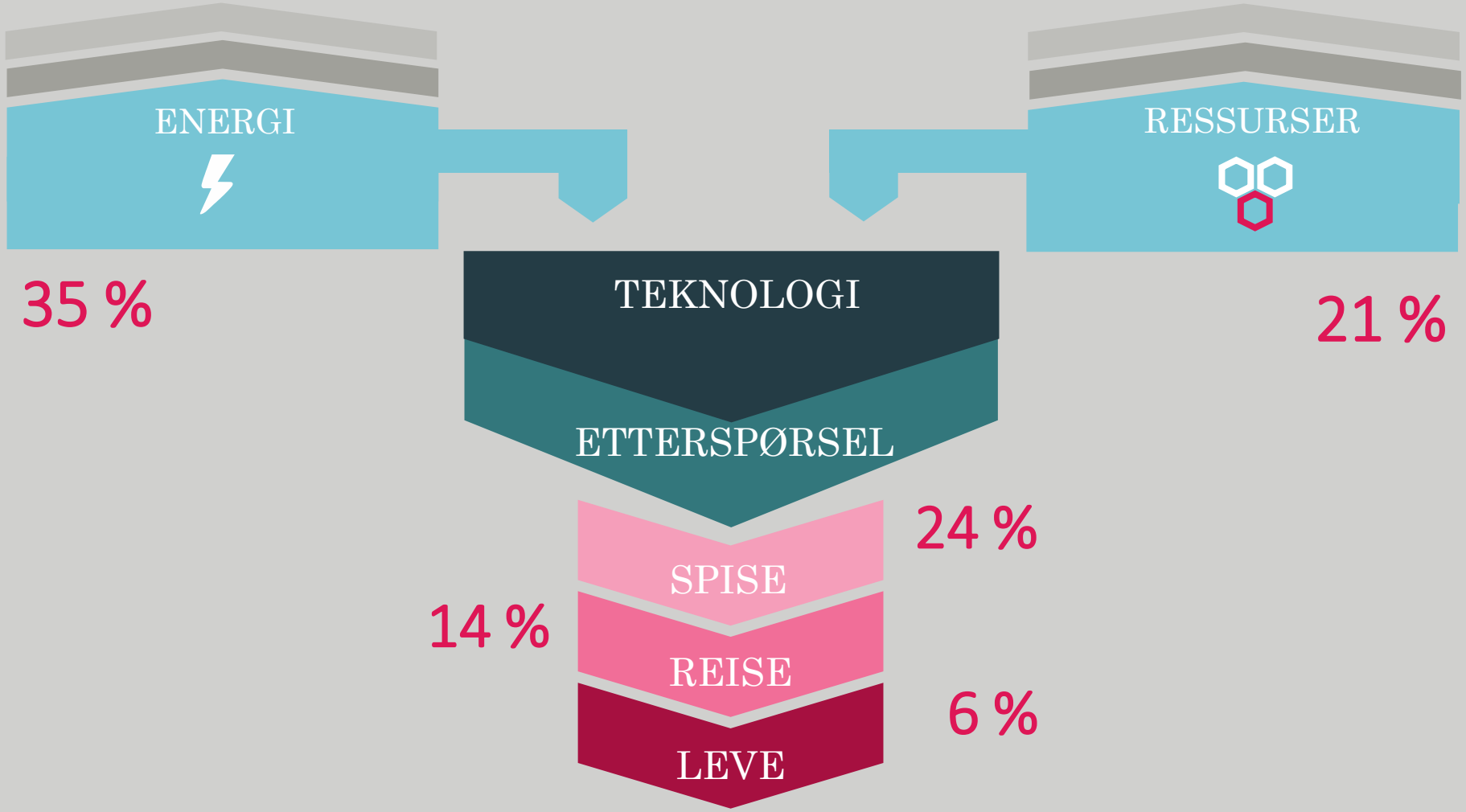
Avkastning

Reduserte utslipp

Positive ringvirkninger

nysnø

Vi ser etter reduserte klimautskipp



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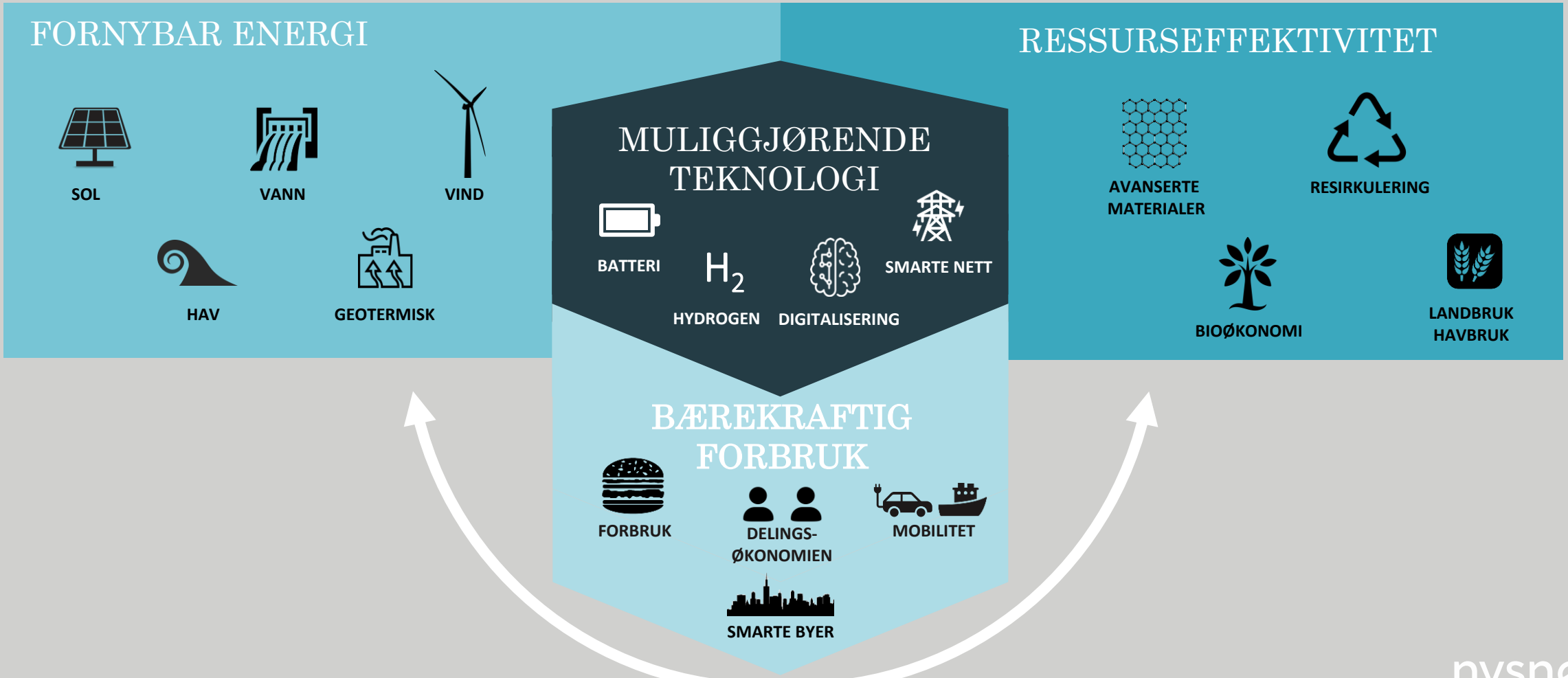
Kilde: FNs klimapanel (2014)

Investeringsmuligheter



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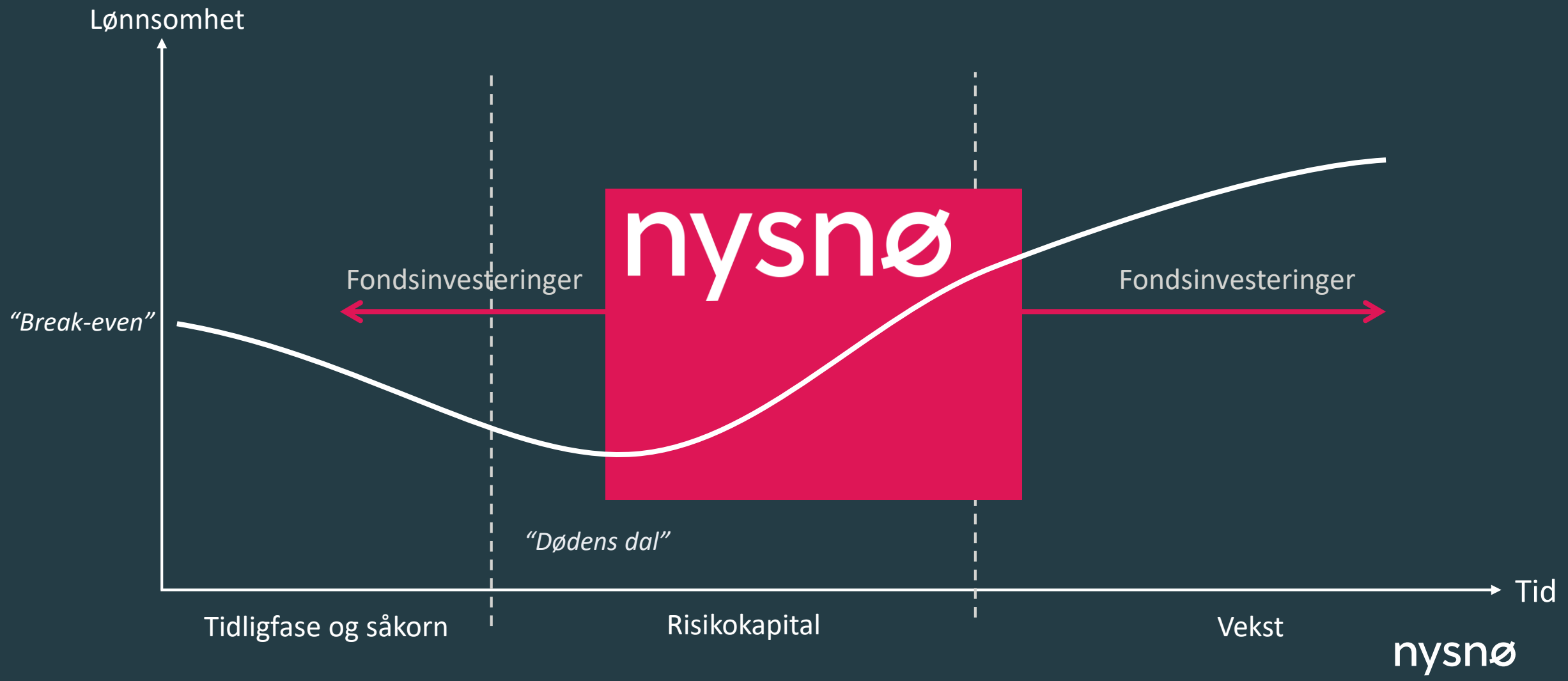
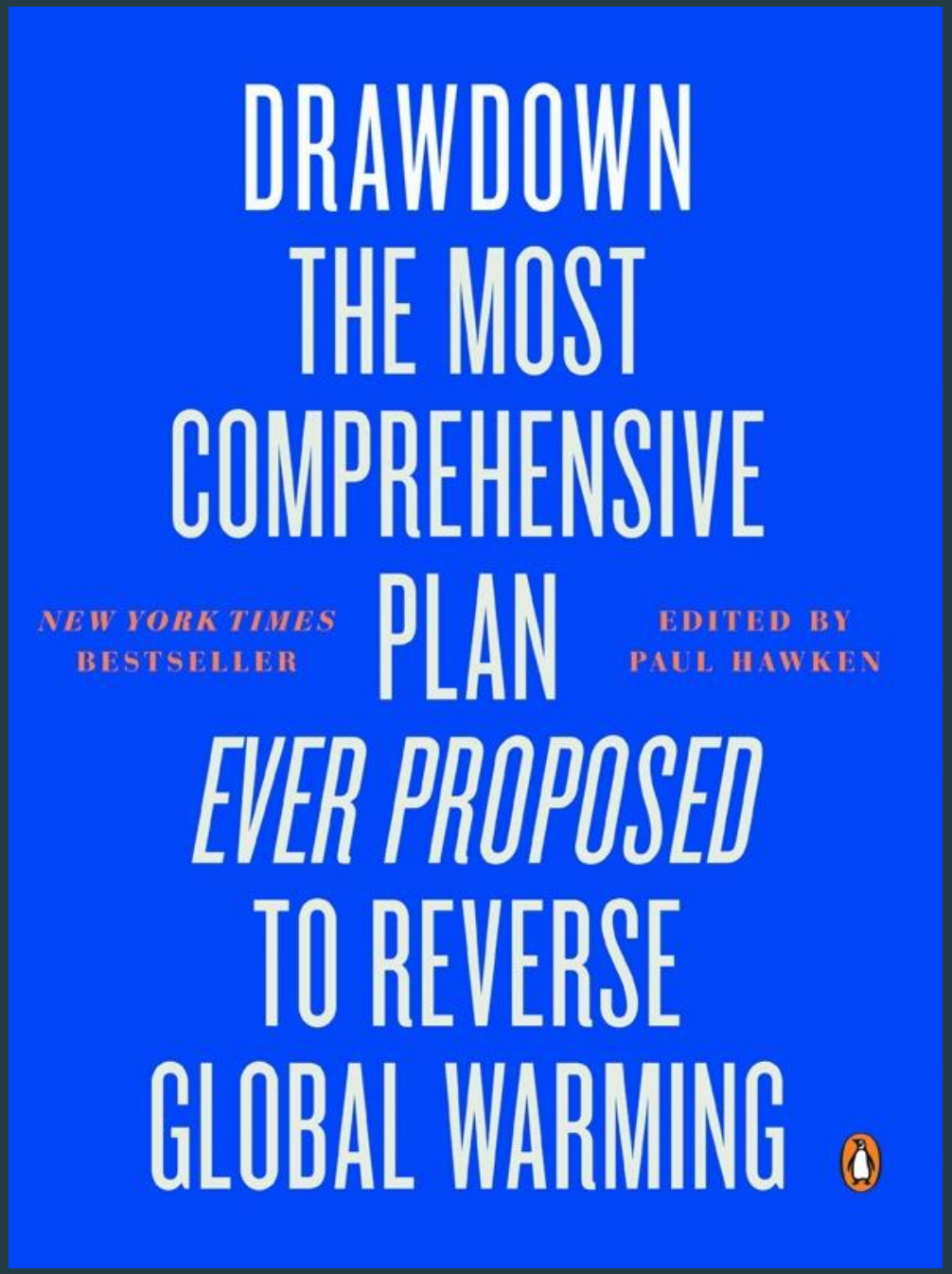
Investeringsfokus



Klimakur 2030

- Økt bruk av biodrivsstoff
- Karbonfangst- og lagring
- Fange bio-CO_2
- Øke uttaket av metan fra deponi
- Økt sortering av plast



MATERIALS

HOUSEHOLD RECYCLING

#56

RANK AND RESULTS BY 2050

2.77 GIGATONS
REDUCED CO2

$366.92 BILLION
NET IMPLEMENTATION COST

$71.13 BILLION
NET OPERATIONAL SAVINGS

IMPACT: *As mentioned above, household and industrial recycling were modeled together. The total additional implementation cost of both is estimated at $734 billion, with a net operational savings of $142 billion over thirty years. On average, 50 percent of recyclable materials come from industrial and commercial sectors. At a 65 percent recycling rate, the commercial and industrial sectors can avoid 2.8 gigatons of carbon dioxide by 2050.*

#55

RANK AND RESULTS BY 2050

2.77 GIGATONS
REDUCED CO2

$366.92 BILLION
NET IMPLEMENTATION COST

$71.13 BILLION
NET OPERATIONAL SAVINGS

IMPACT: *The household and industrial recycling solutions were modeled together and include metals, plastic, glass, and other materials, such as rubber, textiles, and e-waste. Paper products and organic wastes are treated in separate waste management solutions. Emissions reductions stem from avoiding emissions associated with landfilling and from substituting recycled materials for virgin feedstock. With about 50 percent of recycled materials coming from households, if the average worldwide recycling rate increases to 65 percent of total recyclable waste, household recycling could avoid 2.8 gigatons of carbon dioxide emissions by 2050.*

nysnø

TRANSPORT
TRUCKS

#40

RANK AND RESULTS BY 2050

BUILDINGS AND CITIES
LANDFILL METHANE

#58

RANK AND RESULTS BY 2050

BUILDINGS AND CITIES
NET ZERO BUILDINGS

#79

RANK AND RESULTS BY 2050

MATERIALS
REFRIGERANT MANAGEMENT

#1

RANK AND RESULTS BY 2050

89.74 GIGATONS
REDUCED CO2

DATA TOO VARIABLE TO BE DETERMINED

$-902.77 BILLION
NET OPERATIONAL SAVINGS

IMPACT: *Our analysis includes emissions reductions that can be achieved through the management and destruction of refrigerants already in circulation. Over thirty years, containing 87 percent of refrigerants likely to be released could avoid emissions equivalent to 89.7 gigatons of carbon dioxide. Phasing out HFCs per the Kigali accord could avoid additional emissions equivalent to 25 to 78 gigatons of carbon dioxide (not included in the total shown here). The operational costs of refrigerant leak avoidance and destruction are high, resulting in a projected net cost of $903 billion by 2050.*

nysnø

Investeringer

DIREKTE	NorSun	FORNYBAR ENERGI	Norsk solenergiselskap som leverer høyeffektive wafere til den globale solenergiindustrien.	80 MNOK
	DISRUPTIVE TECHNOLOGIES	TEKNOLOGI	Leverer sensorer med 15 års batteritid og utallige bruksområder som bidrar reduserte klimagassutslipp i bygg.	20 MNOK
	eSmart SYSTEMS	TEKNOLOGI	Kunstig intelligens og softwareløsning som analyserer data for bedre drift av kraftnettet.	60 MNOK
	OTOVO	FORNYBAR ENERGI	Digital plattform for salg og installasjon av solceller på hustak.	60 MNOK
FOND	SARSIA	RENE TEKNOLOGIER	Tidligfase teknologifond som retter seg mot innovative vekstbedrifter innen ren energi og helse.	45 MNOK
	ARCTERN VENTURES	RENE TEKNOLOGIER	Teknologifond for innovative selskap som reduserer klimagassutslippene og løse bærekraftsutfordringene	140 MNOK

Photo credit: Vettisriket

Photo credit: eSmart Systems


Photo credit: Otovo Solar

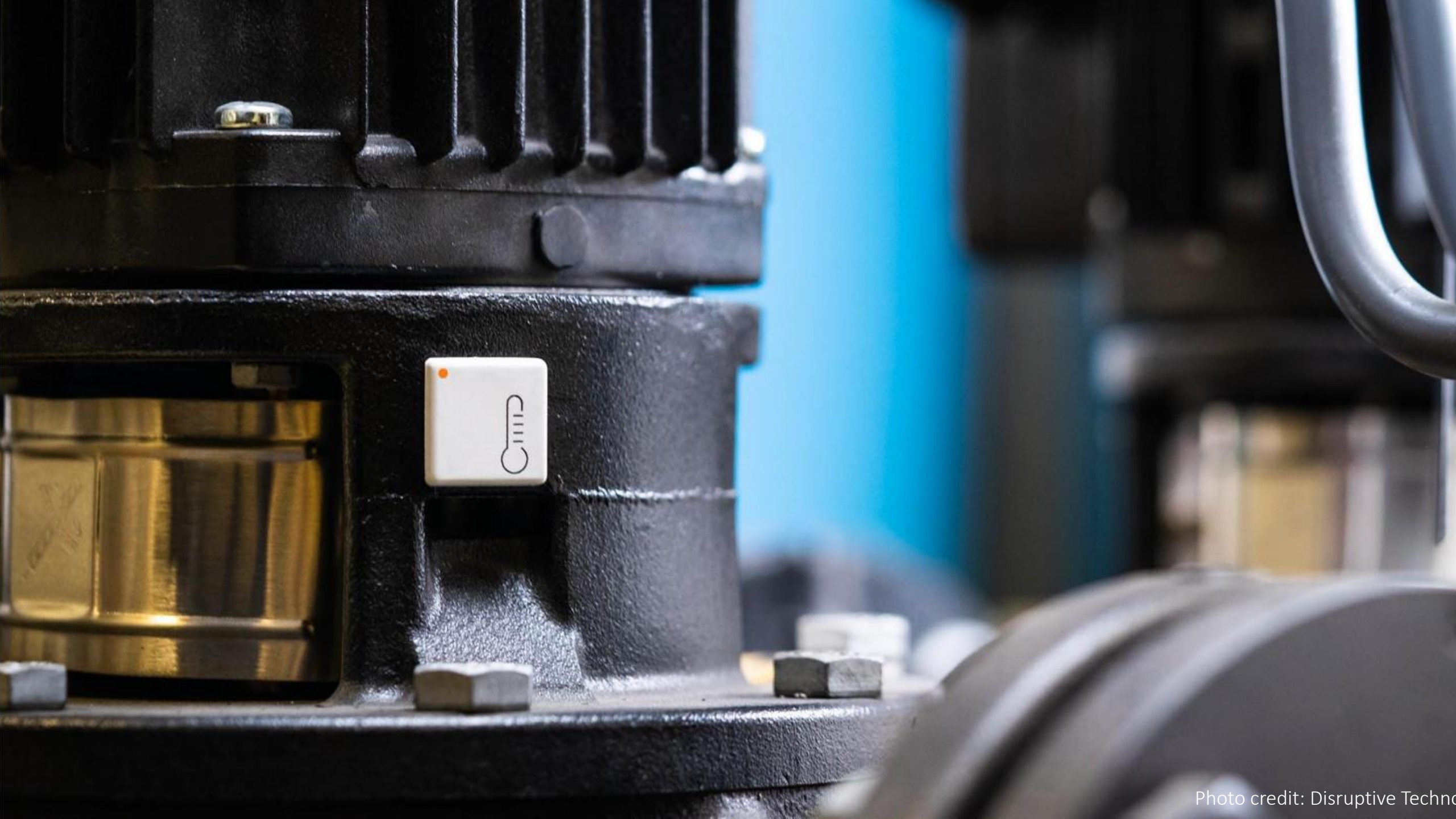
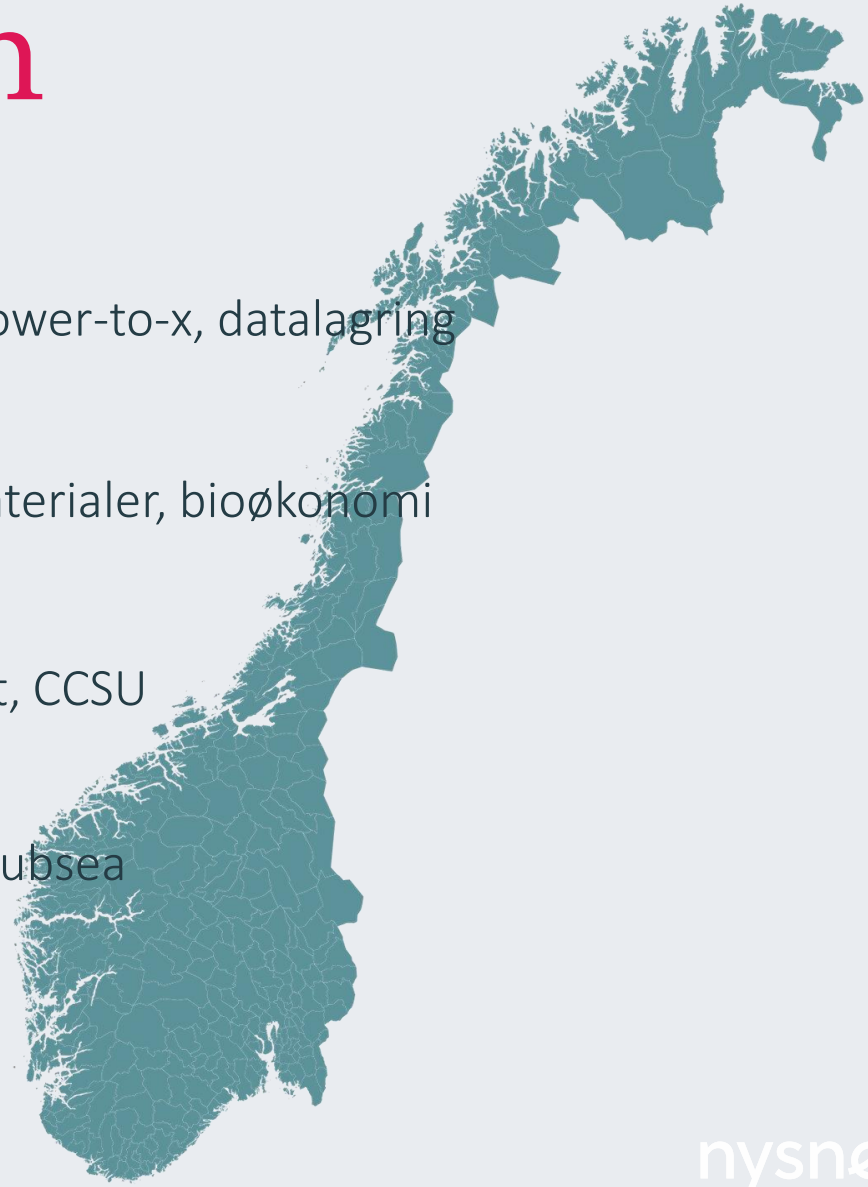


Photo credit: Disruptive Techno

Konkurransefortrinn

- FORNYBART KRAFTOVERSKUDD → Elektriske kjøretøy, power-to-x, datalagring
- FORSKNING OG UTVIKLING → Energi, avanserte materialer, bioøkonomi
- NATURRESSURSER → Akvakultur, vannkraft, CCSU
- MARITIM EKSPERTISE → Transport, havvind, subsea
- TIDLIG DIGITALISERING → Smarte nett, IoT



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Takk for oppmerksomheten!

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