DNB Bank and water

B

Oslo, 14 October 2014 Einar Kilde Evensen, SVP

Energy: Of decisive importance to the world's climate and environmental challenges: CO₂

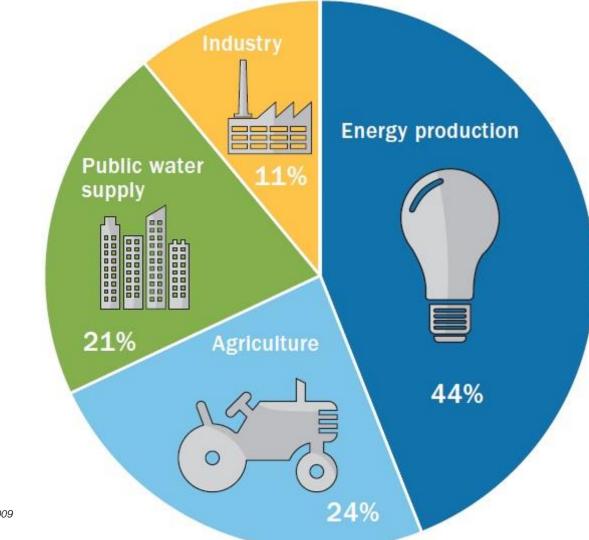
~2/3 of the world's anthropogenic carbon emissions are from energy production



DNB Bank – Energy Division

Energy: Of decisive importance to the world's climate and environmental challenges: Water

> 40% of EU's water consumption is for energy production

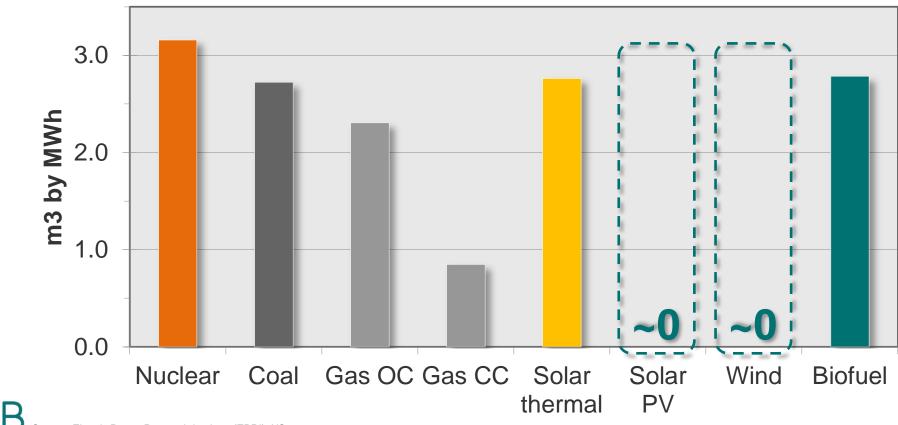


🌙 Source: EWEA 2014, EEA 2009

DNB Bank - Energy Division

Energy: Of decisive importance to the world's climate and environmental challenges: Water

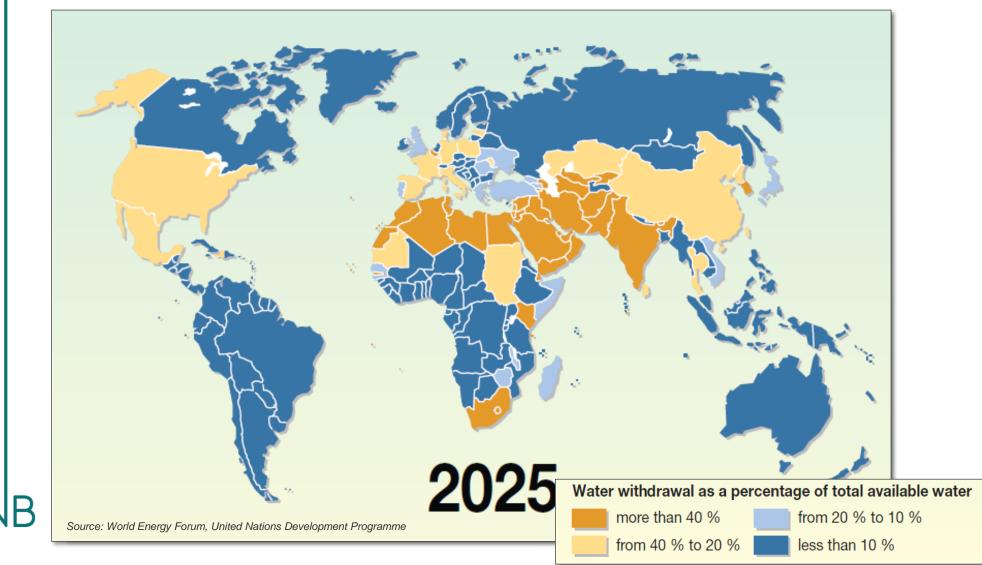
All sources of electricity consume water, but some (a lot) more than others



Water use by plant type

Water: A resource as well as a risk

The number of scarcity-affected regions and people is set to grow rapidly

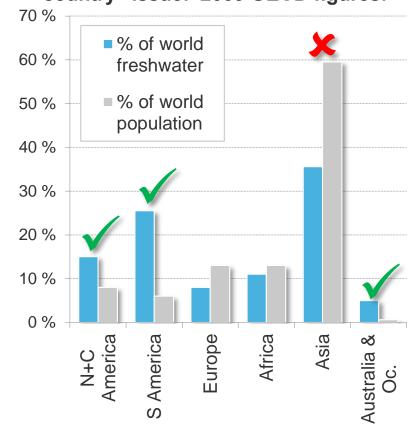


The stress nexus: Energy – water – food

700 WEF2014 participants ranked water, food & climate risks top

No.	Global Risk
1	Fiscal crises in key economies
2	Structurally high unemployment/underemployment
3	Water crises
4	Severe income disparity
5	Fallure of climate change mitigation and adaptation
6	Greater Incldence of extreme weather events (e.g. floods, storms, fires)
7	Global governance fallure
8	Food crises
9	Fallure of a major financial mechanism/institution
10	Profound political and social instability

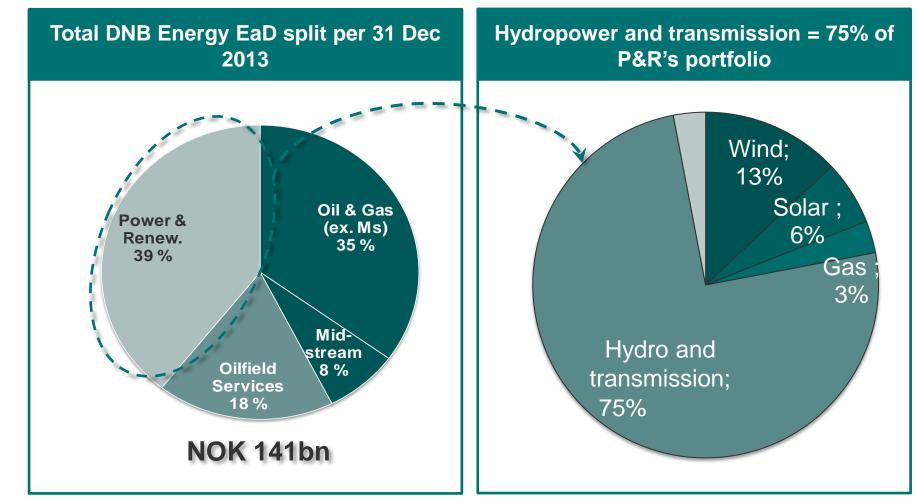
Water stress is not only a "poor, arid country" issue! 2009 OECD figures:



Sources: OECD Environment Outlook to 2050

World Economic Forum in collaboration with Marsh & McLennan Companies, Swiss Re, Zurich Insurance Group, National University of Singapore, Oxford Martin School, University of Oxford, Wharton Risk Management and Decision Processes Center, University of Pennsylvania. BofAML "Peak Water", April 2014; Shell Energy-water-food **DNB Bank – Energy Division**

DNB's energy portfolio is evenly split between "conventionals" and renewable sources



DNB





IEA recently published new investment estimates to 2035

A massive amount of resources needed to keep wheels turning and lights on

