

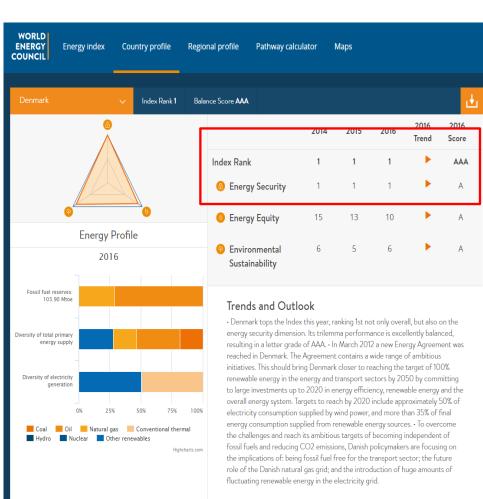
## The Danish Energy Commission's Recommendations to a Future, Danish Energy Policy

Kristoffer Böttzauw,

Deputy Permanent Secretary, Danish Ministry for Energy, Utilities and Climate

1. september 2017

## A role model?



#### Source: World Energy Council

Sort by: Country name			
	Denmark* Canada*		94
	United States * Netherlands *		91
			90
	Germany*		89
	United Kingdom *		89
	Romania *		87
	Czech Republic*		86
	France *		86
	ltaly*		86
	Korea, Rep. *		85
	Switzerland *		85
	Belgium *		84
	Mexico *		84
	Australia *		82
	Austria *		82
	Finland *		82
	Source: World Bank – RISE (Regulatory Indicators for Sustainable Energy)		

82

81

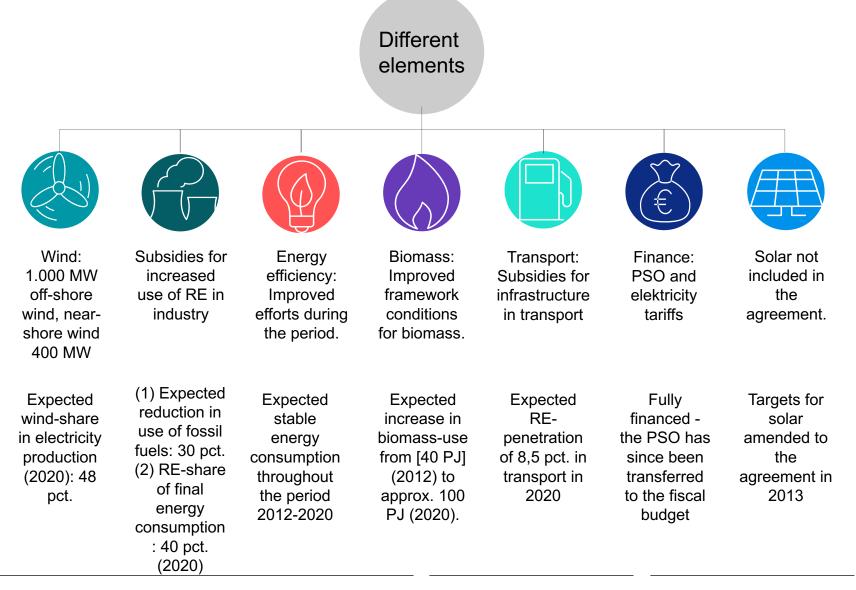
Energy Access Energy Efficiency Renewable Energy

Overall

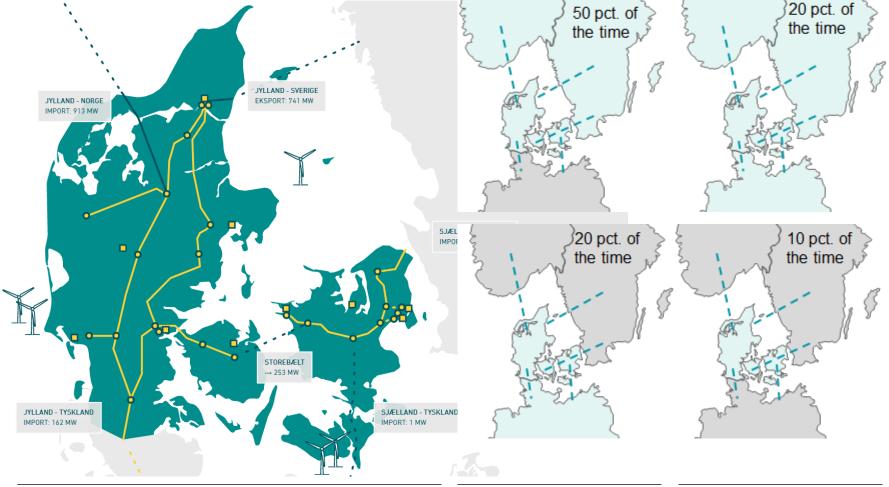
Sweden\*

China \*

## The 2012-energy agreement

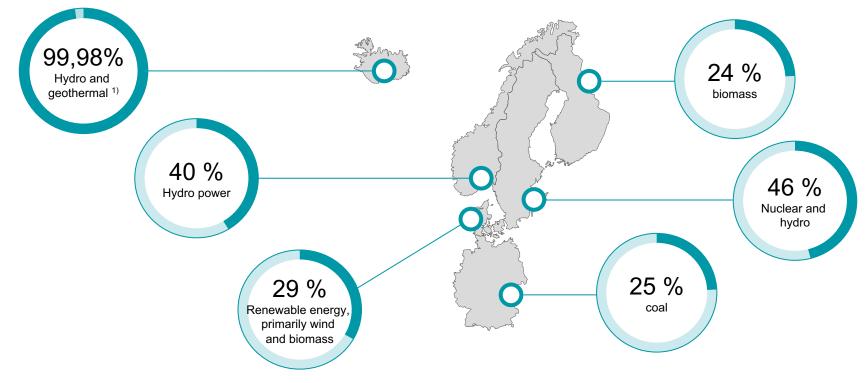


# Regional approaches - interconnections



Energi-, Forsynings- og Klimaministeriet

## Diverse characteristics of countryspecific energy systems 2



#### Sources:

- 1) National Energy Authority, Iceland. NOTE: Only electricity produktion, data from 2016
- 2) Danish Energy Agency: Energistatistik 2015

# Nord Pool

#### - AN EXAMPLE OF REGIONAL COOPERATION

Denmark joined Nord Pool in 2000 – four years after Norway and Sweden established a joint power exchange.

The success of Nord Pool has been remarkable, with the exchange being appointed Nominated Electricity Market Operator (NEMO) across 14 European power markets in 2015-16; Austria, Denmark, Estonia, Finland, France, GB, Latvia, Lithuania, the Netherlands and Sweden, Belgium. Germany, Luxembourg and Poland.

Nord Pool is key to secure the cost - effectiveness of the Nordic and Energiorad/Fungseag Romanimarkets.

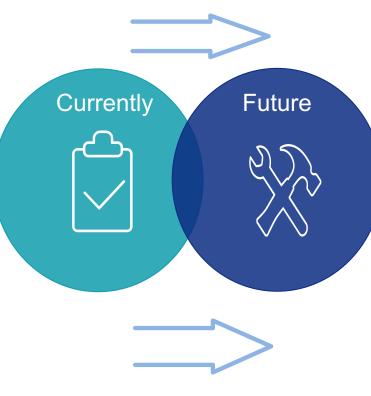


## Developments – to keep an eye on

The Energy Commission's take...

#### Where we are

- National focus
- "Handheld", centralized energy system
- Supply side-focus
- Targeted energy savings
- Based on fossil fuels (approx. 70 pct.)
- Subsidized REdeployment



Where to go moving towards 2030 and 2050

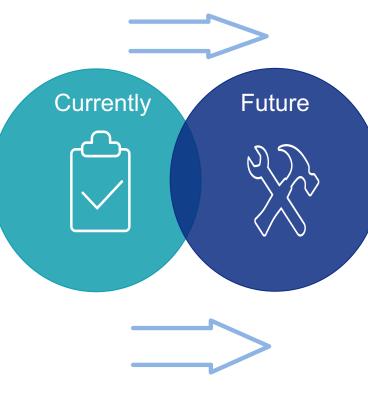
- Regional / international cooperation
- Demand-side-focus
- Cost-effective and marketbased RE-deployment
- Technology neutrality
- Electrification and integration
- Cost-effective energy
  efficiency improvements

## Developments – to keep an eye on

The Energy Commission's take...

#### Where we are

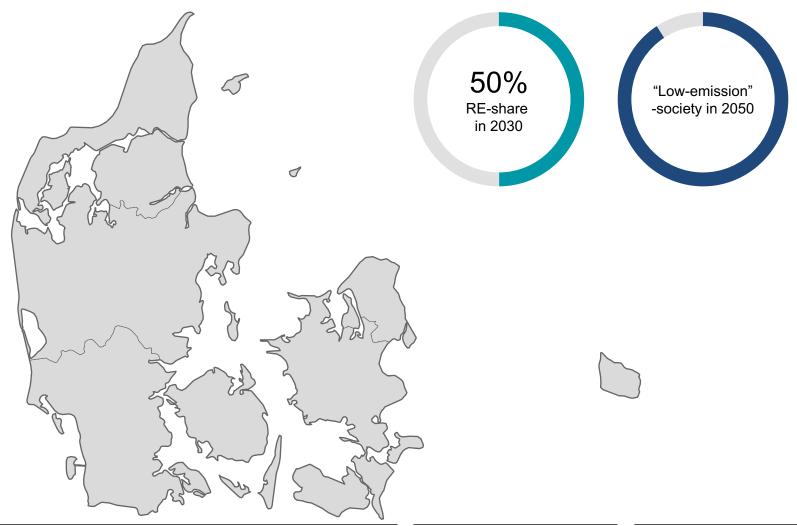
- National focus
- "Handheld", centralized energy system
- Supply side-focus
- Targeted energy savings
- Based on fossil fuels
  (approx. 70 pct.)
- Subsidized REdeployment



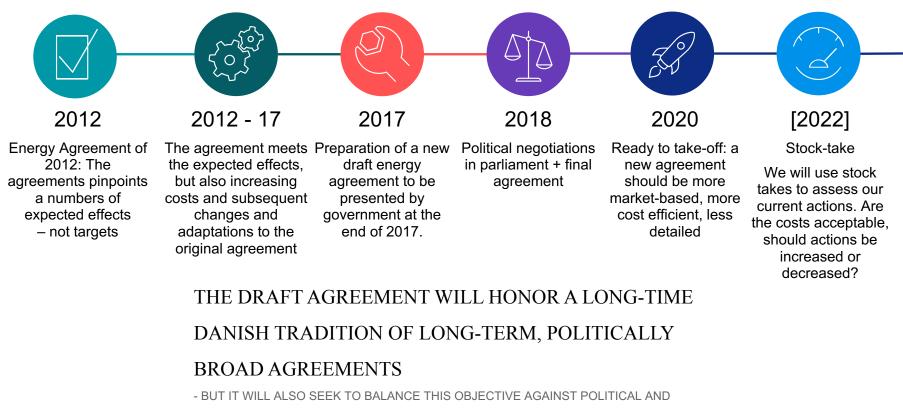
Where to go moving towards 2030 and 2050

- Regional / international cooperation
- Demand-side-focus
- Cost-effective and marketbased RE-deployment
- Technology neutrality
- Electrification and integration
- Cost-effective energy efficiency improvements

## **Government ambitions**



# Status and timeline: a future energy agreement of 2018



FINANCIAL FLEXIBILITY BY INTRODUCING STOCK TAKES SO TO ADJUST CURRENT-

## Elements in a future draft energy proposal

# 01

03

04

### It will be a market-based energy agreement

The Energy Commission finds the current agreement too detailed to be able to obtain the benefits of the market It will be an agreement with a focus on international and regional developments

The agreement must address international developments. Denmark will likely the current strong commitments in recommended with peak cooperations

The upcoming agreement will address economis head on – and make sure to boost the economy rather than impede it

#### Targets are not set in stone

The energy agreement will introduce stock takes. This means that government will evaluate the pace of RES phase-in on a regular basis. The evaluations will assess the scale and speed of market maturity of RES.

By conducting the stock takes, it will be assessed whether the pace of RES phase-in should be increased. However if development is slow, the speed might be decreased.



### Thank you for your attention!