What are the costs of Danish climate policy?

John Nordbo, WWF Denmark
Global Mean Surface Temperature (January-June)

Temperature Anomaly (°C)

Year

NASA GISTEMP Baseline: 1880-1899

2016
Number of reported disasters by decade by hazard type (1971–2010)

  - Floods: 120
  - Mass movement wet: 60
  - Storms: 30
  - Droughts: 20
  - Extreme temperature: 5
  - Wildfires: 1

- 1981–1990: 1,534
  - Floods: 500
  - Mass movement wet: 200
  - Storms: 100
  - Droughts: 50
  - Extreme temperature: 30
  - Wildfires: 10

- 1991–2000: 2,386
  - Floods: 800
  - Mass movement wet: 700
  - Storms: 200
  - Droughts: 150
  - Extreme temperature: 60
  - Wildfires: 20

- 2001–2010: 3,496
  - Floods: 1,000
  - Mass movement wet: 800
  - Storms: 300
  - Droughts: 200
  - Extreme temperature: 100
  - Wildfires: 40

Source: WMO 2014
What are the costs and benefits of Danish climate policy?

John Nordbo, WWF Denmark
Costs of in-action...
“Overall, the calculations presented in the chapter show that the costs of being free of fossil fuels by 2050 probably outweigh the benefits it brings in terms of global climate effects and reduced health costs.”
Based on serious work

• Based on United States Government, Interagency Working Group on Social Costs of Carbon.

• “meant to be a comprehensive estimate of climate change damages and includes, among other things, changes in net agricultural productivity, human health, property damages from increased flood risk and changes in energy system costs…”

• “However, it does not currently include all important damages.”
Inconsistent

**Costs**
- Annual costs in 2050.

**Benefits**
- Average of:
  - 2015: 58 USD per ton
  - 2050: 98 USD per ton

- Benefits should have been 25 percent higher.
Benefits disregarded

- Fossil free scenario leads to 26.5 Mt annual CO2 reductions.
- Only 8.4 Mt taken into account in calculations.

- Benefits should have been 3 times higher.
Jobs also an issue

Sale of clean energy technology, share of GDP (percentage)
To sum up

• The costs of the Danish climate policy are not very interesting if you do not look at the benefits.

• There is a need for better studies of cost of in-action and other benefits of climate action.

• The recent calculations on the economics of the Danish climate policy from the chairmanship of the Environmental Economic Council are highly questionable.
Thanks for the attention!

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