



Long-term climate policies and competitiveness of Nordic industries

Nordic Energy Post Copenhagen Seminar
Helsinki 21.1.2010

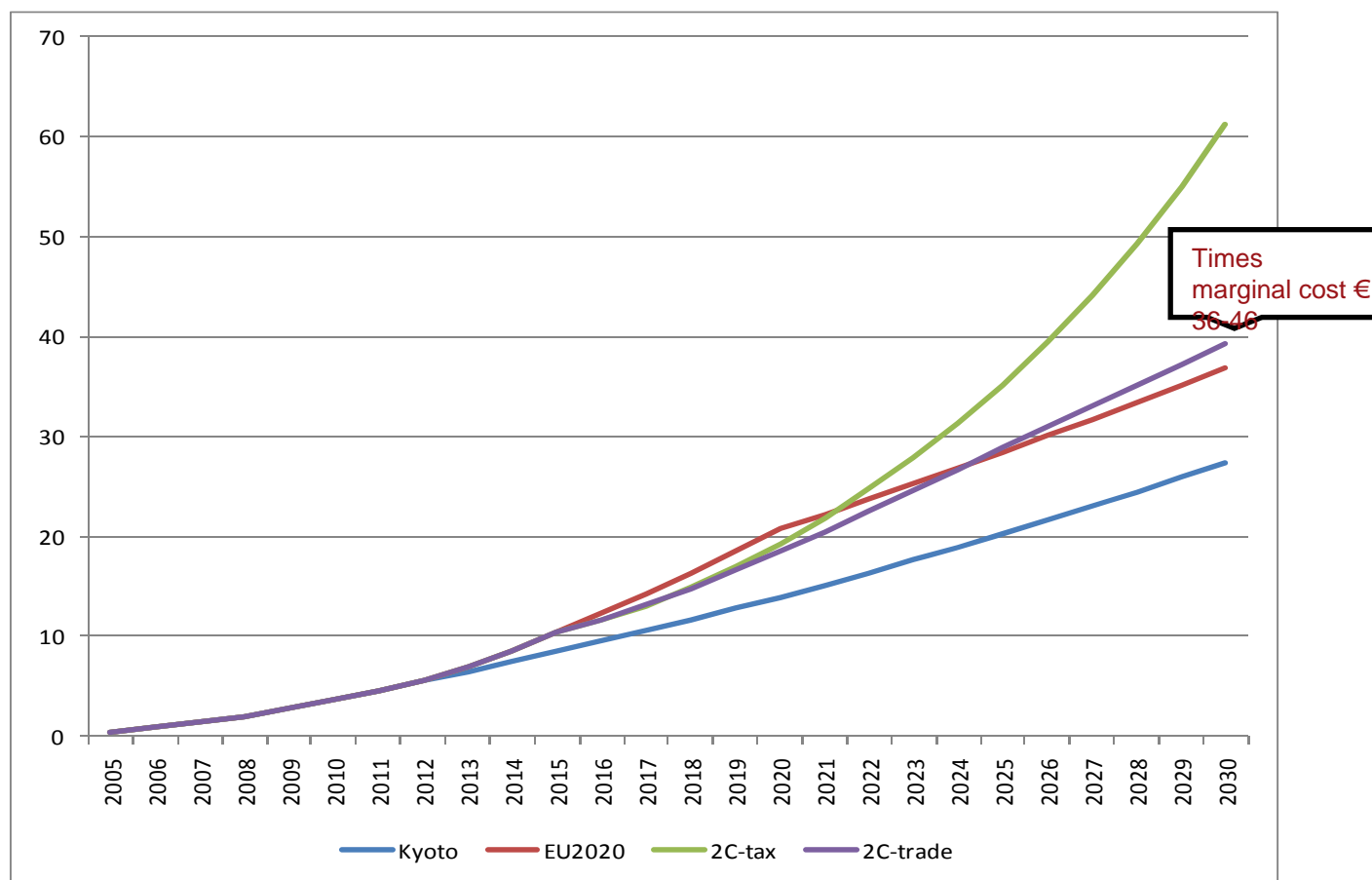
GOVERNMENT INSTITUTE FOR ECONOMIC RESEARCH (VATT)

Janne Niemi

Scenarios

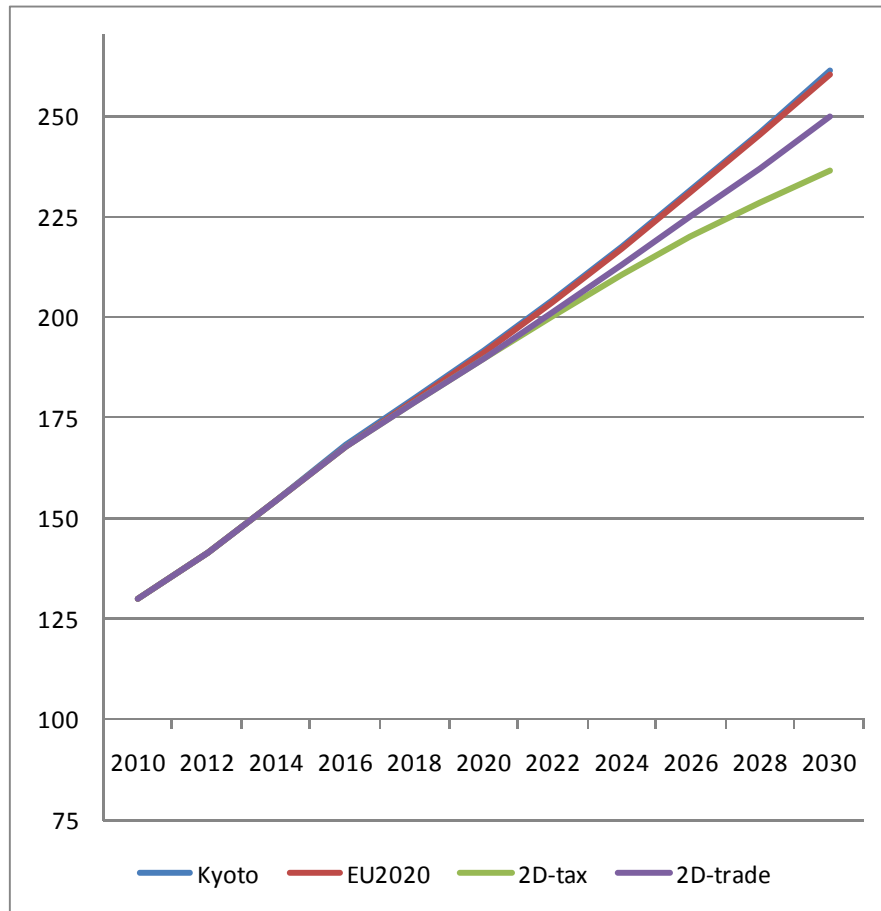
- Baseline, including KYOTO policies → 2012
- EU ETS II → 2020
- Climate policy scenario with a maximum 2°C temperature increase → 2030
 - Global emissions reduction need from Nordic Times simulation → back to 2005 level by 2030 = -3% / year 2015-2030
 - A: global, uniform CO2 tax, no emissions trade
 - B: global emissions trade, population based quotas

CO2 tax / price in emission trading market in '2005 EUR per tonne of CO2

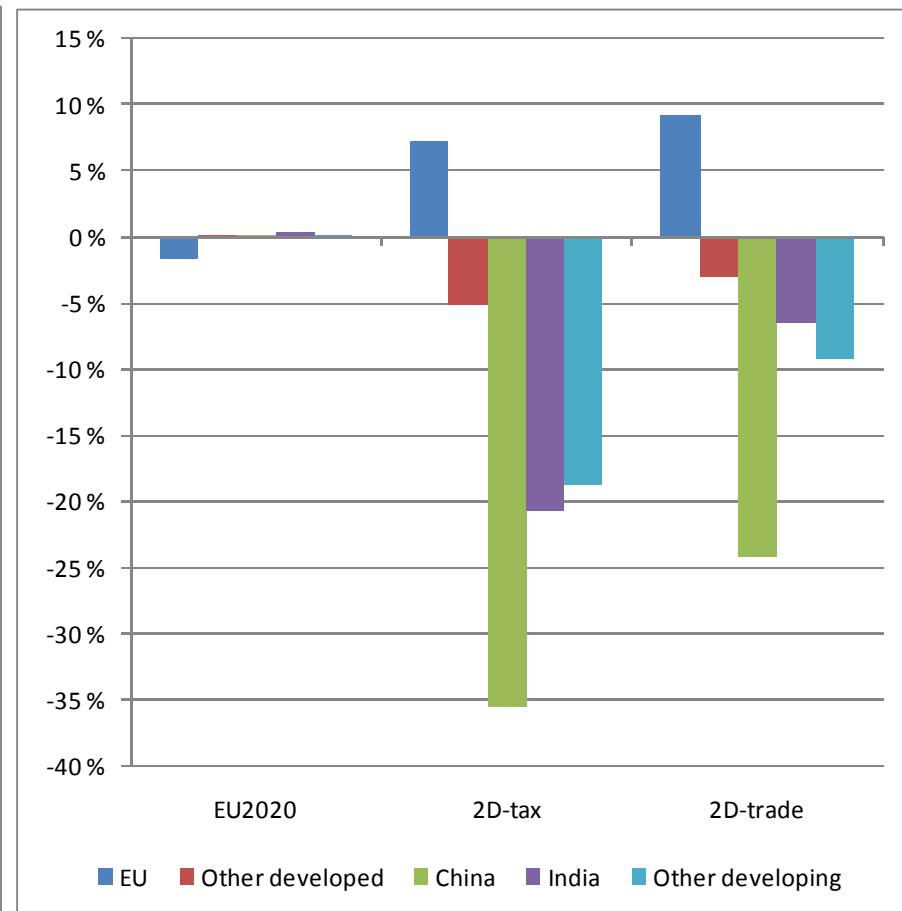


Growth: GDP and CO2 emissions

World GDP 2004-2030

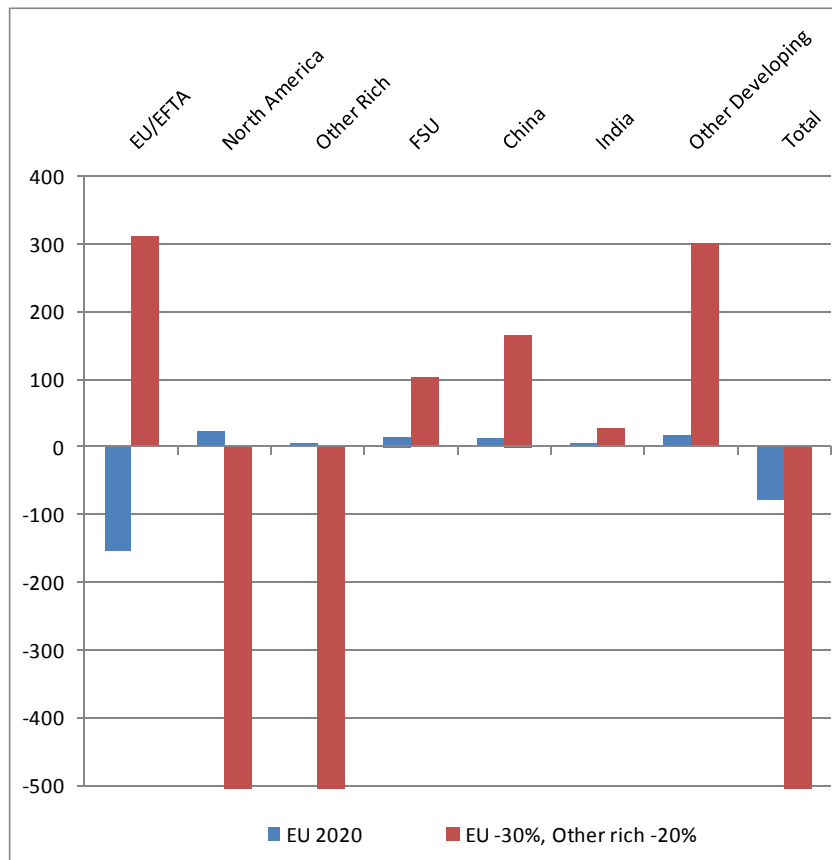


GDP difference to baseline 2030

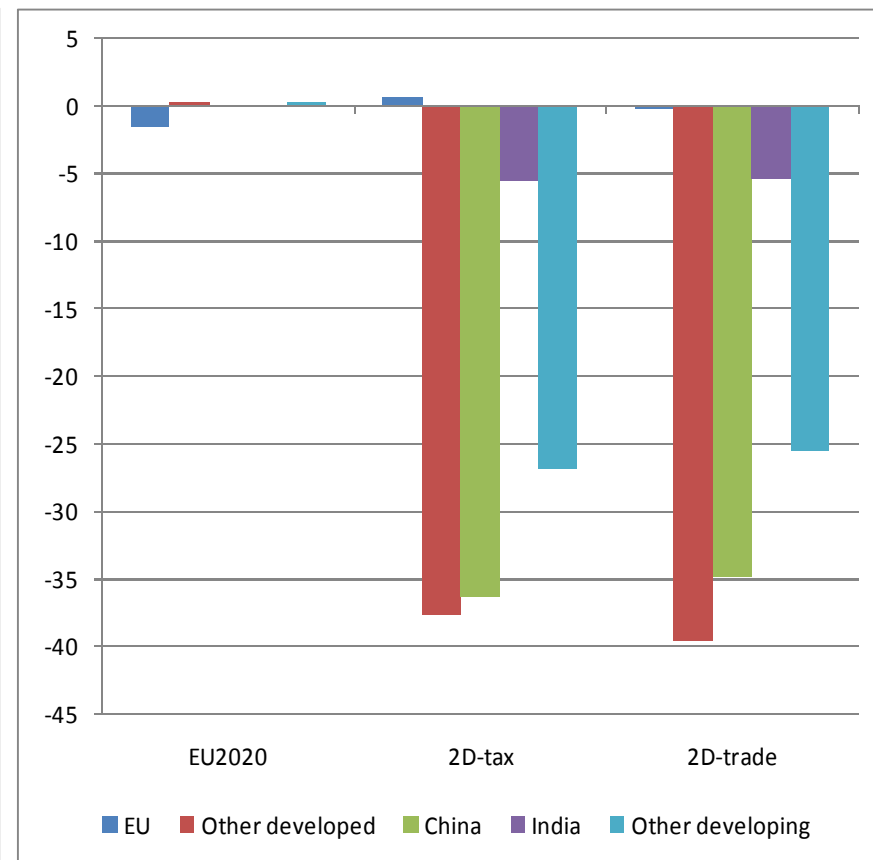


Growth: GDP and CO2 emissions World 2004-2030

CO₂ emissions difference to baseline 2020

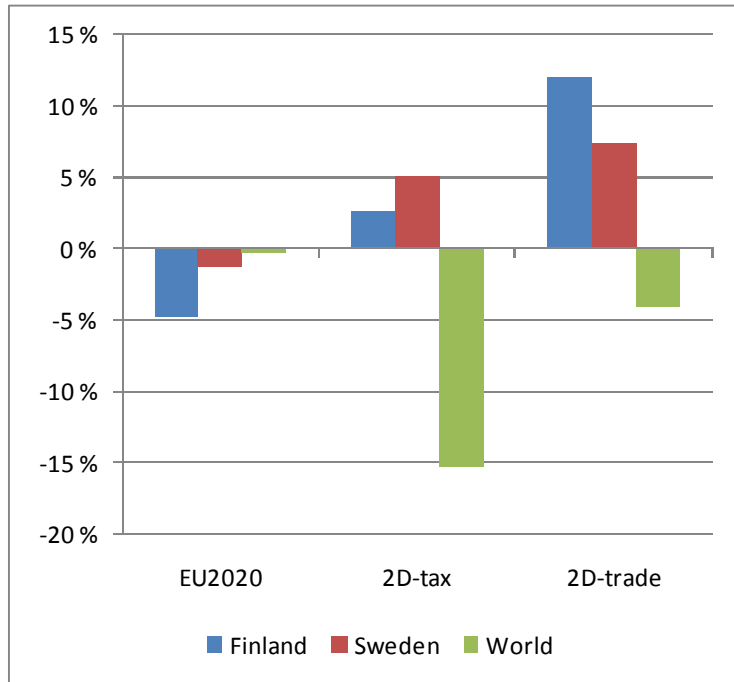


CO₂ emissions difference to baseline 2030

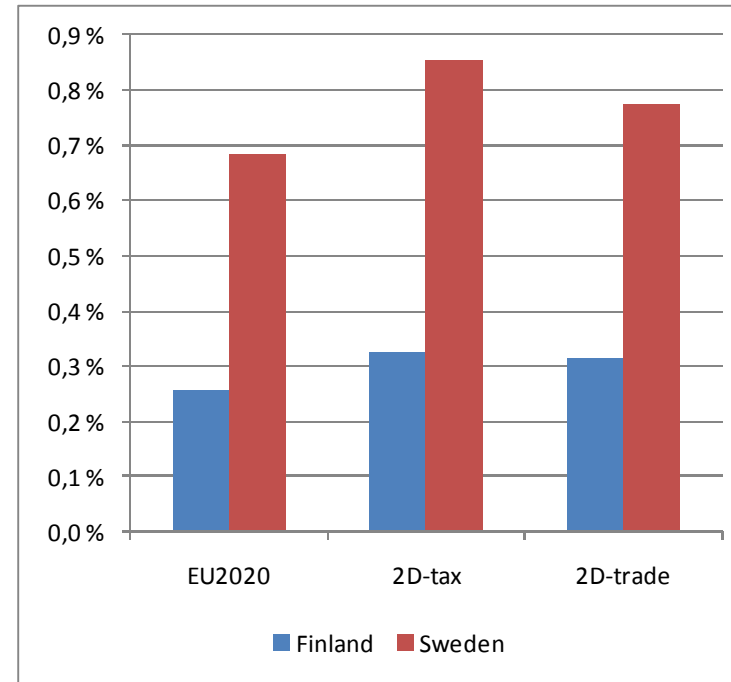


Finnish and Swedish manufacturing Outputs/Global shares

Difference to baseline in 2030



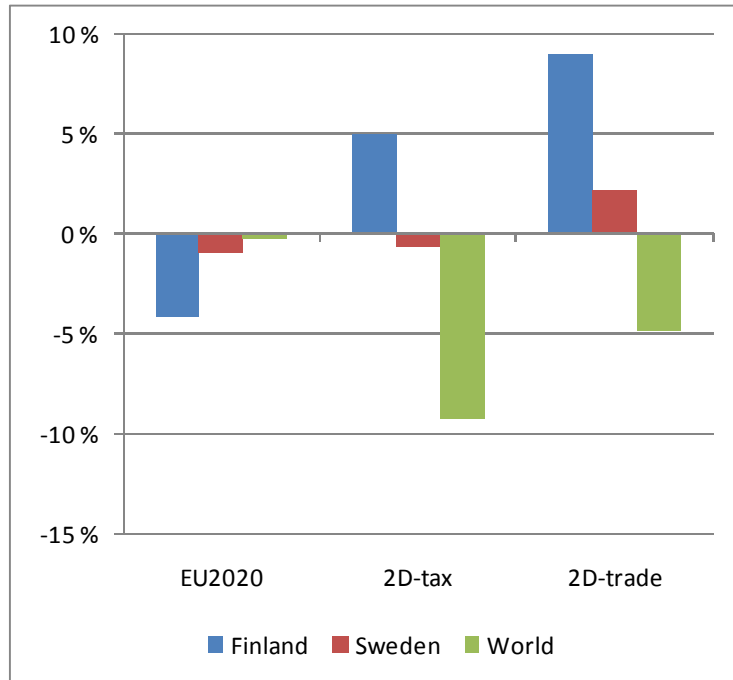
World market share in 2030



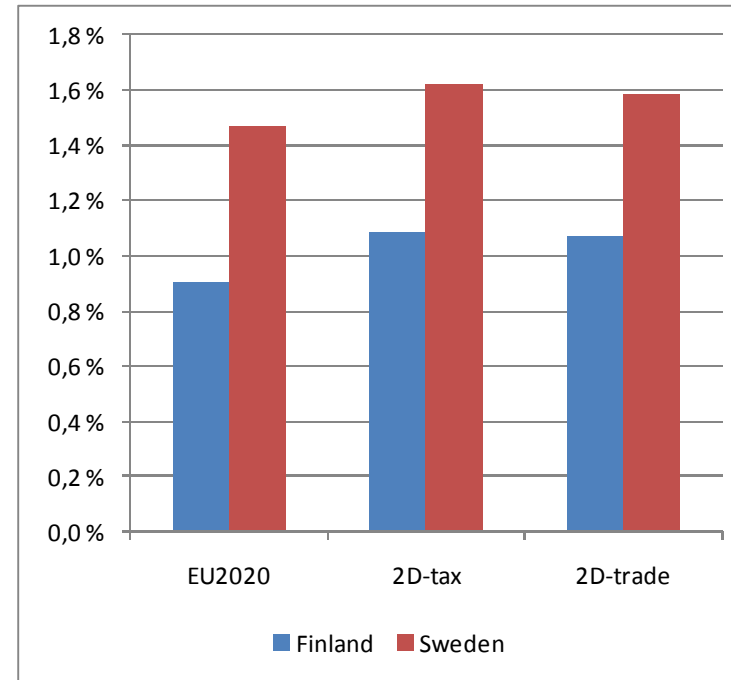
Finnish and Swedish paper industry

Outputs/Global shares

Difference to baseline in 2030



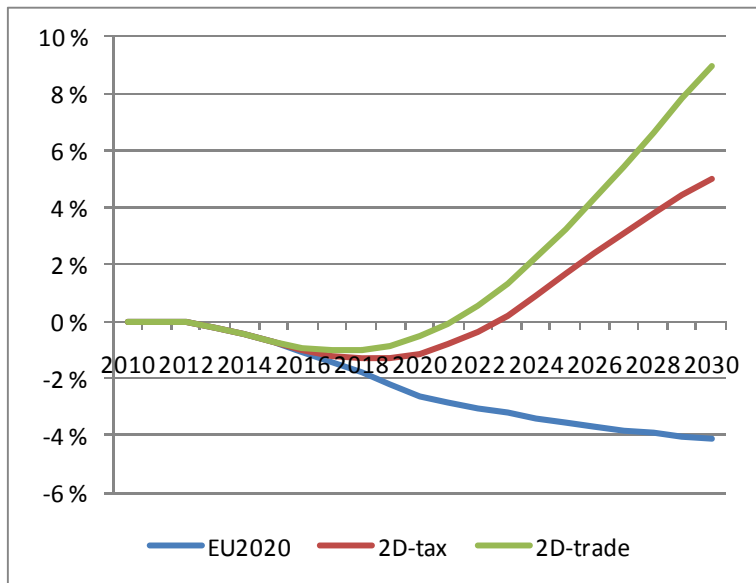
World market share in 2030



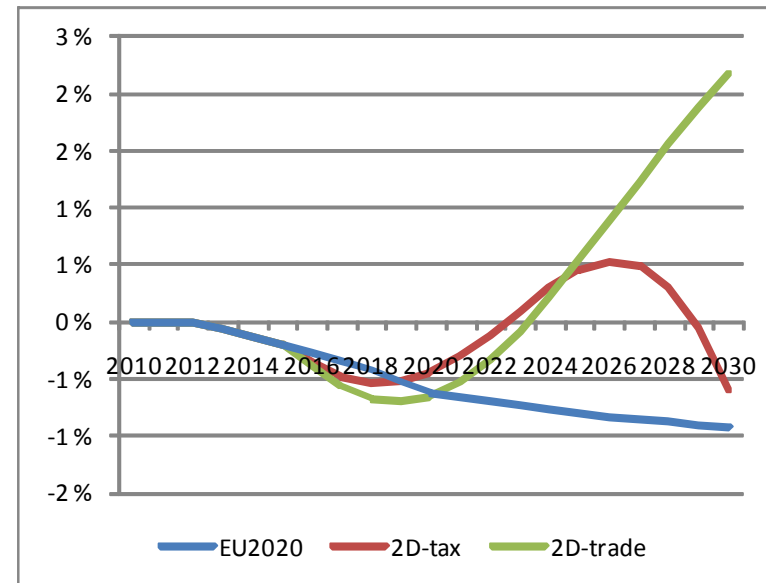
Finnish and Swedish paper industry

Outputs, difference to baseline

Finland



Sweden



Finnish and Swedish paper industry

Competitors post Copenhagen

Difference to baseline in 2030

