Quantifying Exports and Minimising Curtailment: From 20% to 50% Wind Penetration in Denmark
“Denmark produces 20% of their electricity through wind.”
President Barack Obama

“a recent average of 57% ... is exported”
“12% of electricity” comes from wind, “but during dry years, as little as 4%”
Hugh Sharman

“Almost all of Denmark’s wind power is exported to its European neighbours”
Professor David MacKay FRS

“approx. 1% of Danish wind power has been exported”
Professor Henrik Lund

57% of wind is exported. Or 1%. “Both viewpoints are defensible”
Paul-Frederik Bach
Hello
Where
What
Who
When
Why
How
Bye
Norway
Reservoir capacity 81,729 GWh

Sweden
Reservoir capacity 33,758 GWh

Values in %
- Orange: 2007
- Red: 2008
- Blue: Minimum and maximum

Nordel 2008 Annual report
Three different ways to stack the merit order, give three different numbers for the amount of wind exported.

Central: 854 MW
Local: 252 MW
Wind: 1659 MW

Consumption: 1584 MW
Exports: 1180 MW

Power flows in Western Denmark, 03.00-04.00 on 11 October 2003.
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Thank you