

# meteoLCD Weblog

A weblog on climate, global change and climate measurements

«  $0.83*AMO + 0.44*PDO = NHT$

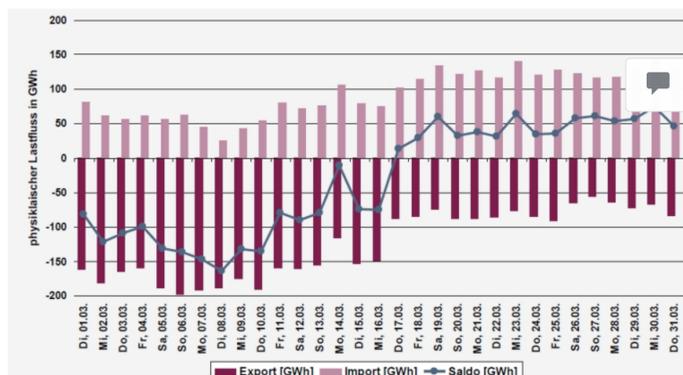
» [Sunshine duration from pyranometer readings](#) »

## German nuclear shutdown

The consequences of the shutdown of 7 German nuclear reactors the 17th March 2011 is now officially documented in a [report](#) of the BDEW (Bundesverband der Energie- und Wasserwirtschaft e.V.). See also Pierre Gosselin's comment [here](#).

### Physikalischer Stromaustausch im März 2011: Insgesamt mit dem Ausland

bdew  
Energie. Wasser. Leben.



Comment

Reblog

Subscribe

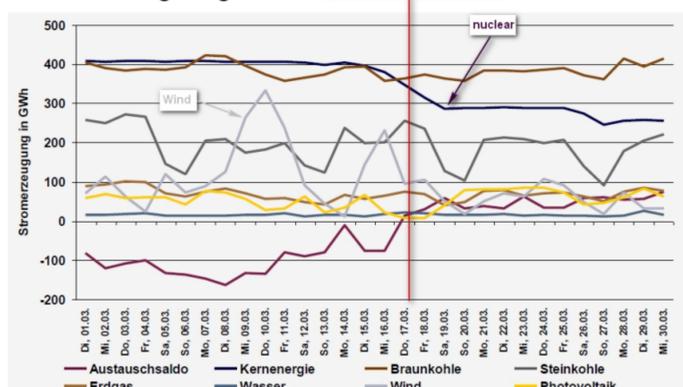
Imports from atomic France and Czechia increased by 97% and 104%, exports into hydraulic Switzerland decreased by 61%, into the Netherlands by 46%.

If we look at the different energies for producing electricity, the huge swings in wind energy are impressive and show the scale of the problem to integrate such a variable producer into a stable grid:

### Stromerzeugung März 2011: Einzelne Energieträger

7 nuclear facilities shut down

bdew  
Energie. Wasser. Leben.



The green lobby (Greenpeace and al., read also [here](#)) predictably contest this report, and say one should look at the full year balance. There is some truth in that argument; it will be interesting to watch if Germany will be able to integrate sufficiently wind and solar power into her grid, without begging its neighbors either to help bearing the burden of keeping the German grid stable and/or to sell enough electricity to make up for the nuclear generated missing part. The month of May will be particularly thrilling, as 5 more (or even possibly all) remaining nuclear facilities will be shutdown for inspection and repair.

TENNET TSO is one of the major electricity transporters in Germany. They [published](#) their export/import data for April 2011 to Denmark, Austria, the Netherlands and Czechia (all numbers in MWh, balance is positive when imports > exports). The following figure compares the import/export numbers for April 2010 and April 2011:

Tennet TSO export/imports April 2010/2011						
COUNTRY	2010EXPORT	2010IMPORT	2010BALANCE	2011EXPORT	2011IMPORT	2011BALANCE
NL	1145273	74326	-1070947	723044	485829	-237215
DK	998607	653487	-345120	822025	1167177	345152
AT	1420136	331427	-1088709	907022	762089	-144933
CZ	10287	1982019	1971732	205	2741392	2741187
		<b>Global balance</b>	<b>-533044</b>			<b>2704191</b>
		positive = export				

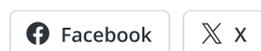
In April 2010 the balance was **533 GWh exports**, in April 2011 **2704 GWh imports** !

Especially telling are the imports of nuclear CZ electricity which **increased by 39%** !

Here in Luxembourg nearly all officials and green lobbies promote the "naturstrom" (e.g. natural electricity!), which is bought mainly from [Greenpeace Energy](#). The major part (95%) comes from Austrian hydraulic facilities (see pre-report in German [here](#)). Sometime ago I showed in a report that Switzerland imports nearly the same amount of (mostly nuclear) electricity as that of its homegrown hydraulic electricity sold aboard as green electricity: you could call this procedure "electricity laundering". The same seems to happen in Austria, as shown in this [blog](#): surely Austria does not produce enough hydraulic electricity for its own usage and that of its neighbors too. So she does the same as do the Swiss: sell hydraulic at a premium price and import cheaper (and nuclear) electricity for home usage.

Knowing this, can "naturstrom" users still be 100% happy of their green credentials?

Share this:



### Related

[BNA Monitorbericht "Energie der Zukunft" December 26, 2012](#)

[Germany's Ausstieg: Nein Danke! September 9, 2011](#)

[Greens for Nuclear Energy April 8, 2021](#)

This entry was posted on May 1, 2011 at 09:48 and is filed under Uncategorized. You can follow any responses to this entry through the [RSS 2.0](#) feed. You can [leave a response](#), or [trackback](#) from your own site.

Leave a comment