Réseau de transport d'électricité

OVERVIEW OF ELECTRICAL ENERGY

January 2010

The purpose of this document is to provide information on the results of operation of the French public transmission network and power system during the past month. Information sources : ERDF, METEOFRANCE, electricity generators, RTE. The data published are interim figures dated **5 february 2010,** unless indicated otherwise.

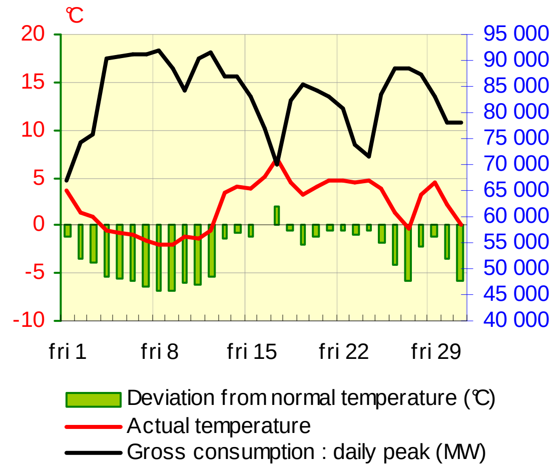
NATIONAL ELECTRICITY CONSUMPTION - perimeter France

Results at end of past month

	January 2010		Trend compared with jan 2009	Trend over last 12 months
Gross consumption	56,3	TWh	2,8%	-2,3%
Adjusted consumption *	51,7	TWh	1,7%	-1,3%

Temperature	
Monthly average	2,0 °C
Deviation from normal temperature	- 3,1 °C/normale
Deviation from January 2008	- 0,7 °C

RTE-in house reference drawn up on basis of METEOFRANCE data

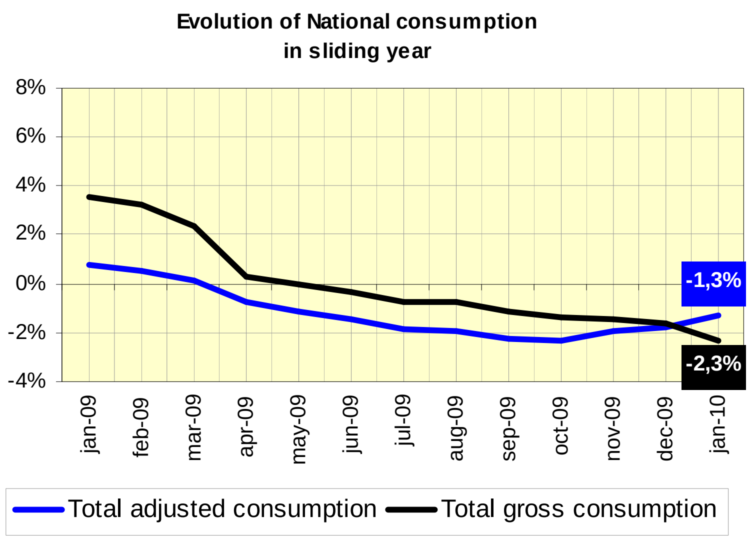


January saw temperatures well below seasonal norms (-3,1°C), resulting in additional electricity use o f some 4,6 TWh (an increase of 9%) for heating purposes.
In january 2010, with an average temperature 0,7°C lower but with a relatively unfavourable calendar effect, gross consumption was up by 2,8% compared with january 2009. Adjusted for climatic contingencies, monthly consumption rose by 1,7%, continuing the increases recorded in november and december 2009 (2,2% and 0,9%).

Cumulative trend over last 12 months

Due to differences in climatic conditions between winter 2008/09 and winter 2009/2010, the rate of growth in gross consumption in cumulative figures over a sliding 12 month period slowed compared with the previous month, from -1,6% at the end of december 2009, to -2,3% at the end of january 2010.

On the other hand, the falling trend in adjusted consumption* has slowed since the end of 2009; in cumulative figures over 12 months the growth rate rose from -2,3% at the end of october, to -2,0% at the end of november, to -1,8% at the end of december 2009, and then to -1,3% at the end of january 2010.



* adjusted for winter and summer climate contingencies and the inclusion of 29 February 2008.

BALANCE OF ELECTRICAL ENERGY IN FRANCE

Results at end of past month

	January 2010 (GWh)	Deviation from jan 2009 (GWh)	Trend from jan 2009	Trend over last 12 months
NET GENERATION				
Nuclear	40 313	-2 780	-6,5%	-7,9%
Fossil-fuel thermal generation	8 833	899	11,3%	3,0%
Hydro-electric	6 228	159	2,6%	-9,0%
Wind	670	24	3,7%	39,3%
Other renewable sources *	407	25	6,6%	8,1%
Total net generation	**56 451**	**-1 673**	**-2,9%**	**-6,4%**
GROSS NATIONAL CONSUMPTION				
End customers connected to the RTE network **	5 797	173	3,1%	-7,3%
Other customers and losses on all networks ***	50 471	1 380	2,8%	-1,3%
Total gross national consumption	**56 268**	**1 553**	**2,8%**	**-2,3%**
Energy extracted for pumping	**598**	**-126**	**-17,4%**	**0,7%**
Balance of physical exchanges (export)	**-415**	**-3 100**	**-115,5%**	**-51,3%**

* mainly : household waste, paper waste, biogas ** extractions by these consumers on the RTE network

*** SME, SMI, business and private consumers supplied by the distribution networks + generation auto-consumed by industrials at their sites + losses on the transmission and distribution networks

With installed capacity up by 970 MW (28%) at the end of january 2010 compared with the end of the january 2009, wind generation reached 670 GWh in january 2010 (an increase of 3,7% on january 2009).

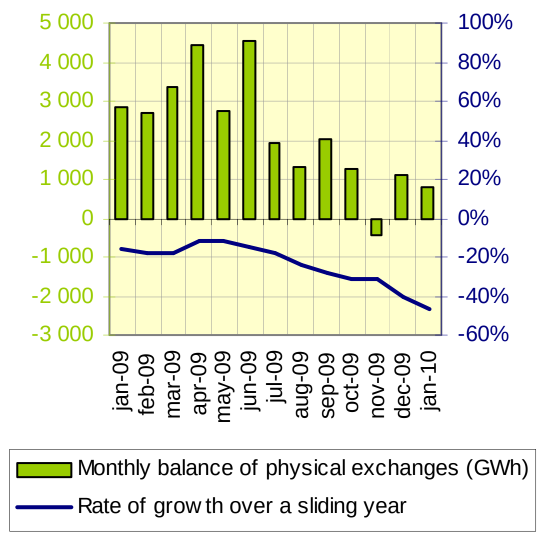
Development in the balance of physical exchanges

The balance of exchanges was negative (importing) in january, for the second time this winter after the month of october. The balance of exchanges was negative (importing) in energy terms on 17 days, with a minimum value of -166 GWh on monday 11th. In power terms, the balance of exchanges reached a 30-year low with an import balance of 7 794 MW on january 6th 2010.

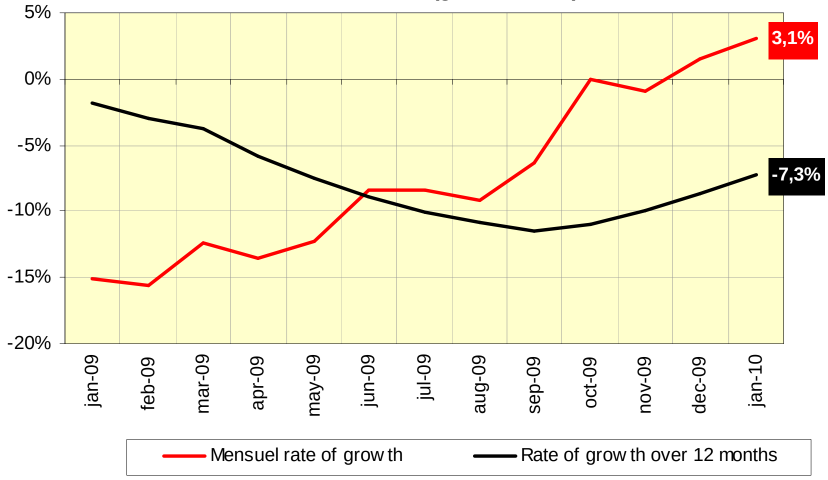
Development of extractions by large-scale industry

In monthly figures, the fall in extractions by consumers connected directly to the RTE network reached its lowest value since the start of the economic crisis in december 2008 (-18,2%).
In january 2010, following on from december 2009, monthly extractions continued to rise at a rate of 3,1%, though they remained below figures recorded for january 2008 (-12,5%).
Over a sliding year, the rate of growth in extractions by consumers connected directly to the RTE network went from -8,6% at the end of december 2009, to -7,3% at the end of january 2010.

Balance of physical exchanges



Evolution of extrantions by end customers connected to the RTE network (gross values)



EXTREME values for consumption, exchanges – perimeter France*

		January		Last 12 months		Absolute **	
Gross national consumption	Maximum	2 032 GWh	friday 8	2 035 GWh	07/01/2009	2 035 GWh	07/01/2009
		91 919 MW	friday 8	92 400 MW	07/01/2009	92 400 MW	07/01/2009
	Minimum	1 416 GWh	friday 1	903 GWh	09/08/2009	856 GWh	06/08/2006
		51 895 MW	friday 1	31 456 MW	09/08/2009	29 816 MW	06/08/2006
Balance of physical exchanges ***	Maximum	115 GWh	sunday 17	239 GWh	08/05/2009	298 GWh	08/05/2008
		8 161 MW	sunday 17	12 114 MW	29/03/2009	13 746 MW	11/11/2008
	Minimum	-116 GWh	monday 11	-140 GWh	16/12/2009	-140 GWh	16/12/2009
		-7 794 MW	wednesday 6	- 7 794 MW	06/01/2010	- 7 794 MW	06/01/2010

* Excluding Corsica . ** The minimum values concern the last 30 years for the balance of physical exchanges, and the last 5 years for consumption.
*** A positive value indicates a net export balance, a negative value indicates a net import balance.

ELECTRICITY MARKET MECHANISMS

CONTRACTUAL CROSS-BORDER ELECTRICITY EXCHANGES

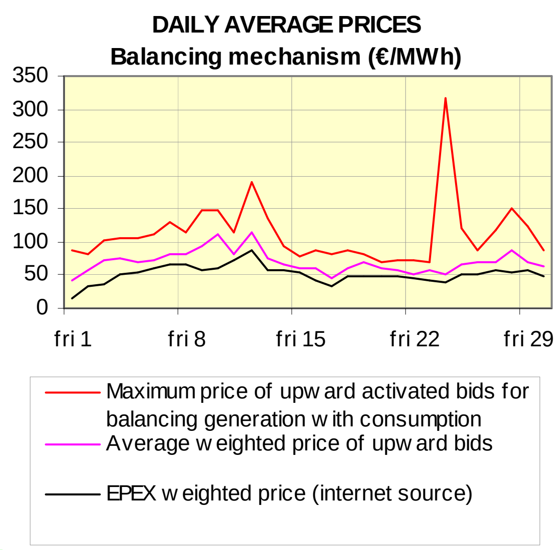
	EXPORTS		IMPORTS		CUMULATIVE TOTAL		EXPORT BALANCE *	
	January 2010 (GWh)	Trend / jan 2009	January 2010 (GWh)	Trend / jan 2009	January 2010 (GWh)	Trend / jan 2009	January 2010 (GWh)	Trend / jan 2009
Belgium	103	-72%	645	28%	748	-15%	-542	309%
Germany	223	-57%	2 071	40%	2 294	15%	-1 848	94%
Switzerland	2 185	-11%	572	20%	2 757	-6%	1 613	-18%
Italy	1 442	-20%	145	102%	1 587	-15%	1 297	-25%
Spain	54	-84%	412	-7%	466	-40%	-358	226%
Great Britain	289	-49%	939	96%	1 228	17%	-650	n.s.**
TOTAL	**4 296**	**-29%**	**4 784**	**39%**	**9 080**	**-4%**	**-488**	**-119%**

A negative value indicates a net import balance - ** decrease in the import balance ** In january 2009, exports from Great Britain totalled 89 GWh.

BALANCING MECHANISM - BALANCE RESPONSIBLE ENTITIES

	January 2010	Deviation compared with jan 2009	Trend compared with jan 2009
Balancing Mechanism			
Total energy activated upward	575 GWh	-4 GWh	-1%
Total energy activated downward	443 GWh	216 GWh	95%
Number of actors	36	-2	
Exchanges between Balance Responsible entities* (BR) via block exchange notifications (NEB)			
Energy exchanged between BR via NEB	27 895 GWh	4 233 GWh	18%
Number of BR	144	-2	

** Balance Responsible Entity : any legal entity who is committed to RTE, under a Balance Responsible contract, to settling the costs of the imbalances calculated a posteriori, on behalf of one or more network users attached to its scope. These imbalances result from the difference between all of the supplies and consumption for which it is responsible.*



TRANSMISSION NETWORK DEVELOPMENT

In january, RTE the following installations entered active service :

- the 225 kV substation at Epizon, connected to the Froncles-Vincey overhead line in the Haute-Marne department, to prepare for the connection of a wind farm;
- the 63 kV Chambry-Chauconin n°1 and n°2 lines, fo llowing work to install a section of the conductors underground near Meaux in Seine-et-Marne, in preparation for the creation of a ZAC (joint development zone);
- the 2nd circuit of the 63 kV Jonquières-Théziers line in the Gard department, to secure the supply to the delivery-point substations in Uzes and Théziers;
- a 80 MVAR capacitor bank at the 225 kV Tamareau substation.

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