

Validation of the DSD

Mapping CSV – SDMX structure



Stève Gervais
International Energy Agency

- Energy security
- Environmental protection
- Economic growth
- Engagement worldwide

Excel Questionnaire - Structure

				TABLE 1. GROSS ELECTRICITY AND HEAT PRODUCTION: (TRANSFORMATION SECTOR)									
Item2 (PLANT) →		Country		MAINELEC	MAINCHP	MAINHEAT	AUTOELEC	AUTOCHP	AUTOHEAT	MAINTOT	AUTOTOT		
DataType:	BALANCE		2014	MAIN ACTIVITY PRODUCER PLANTS			AUTOPRODUCER PLANTS			TOTAL			
Item1 ↓	Product	Menu		ELECTRICITY	CHP	HEAT	ELECTRICITY	CHP	HEAT	MAIN ACTIVITY PRODUCER	AUTOPRODUCER		
BALANCE		ELECTRICITY UNIT: GWh (10 ⁶ kWh)		A	B	C	D	E	F	G(=A+B+C)		H(=D+E+F)	
6	GELEPROD ELECTR	Electricity	1	0	0		0	0		0	0		
7	GELEPROD NUCLEAR	Nuclear	2							0	0		
8	GELEPROD HYDRO	Hydro	3							0	0		
9	GELEPROD HYDPUMP	Pumped hydro	4							0	0		
10	GELEPROD GEOTHERM	Geothermal	5							0	0		
11	GELEPROD SOLAR	Solar	6							0	0		
12	GELEPROD TIDE	Tide, wave and ocean	7							0	0		
13	GELEPROD WIND	Wind	8							0	0		
14	GELEPROD COMBFUEL	Combustible fuels	9							0	0		
15	GELEPROD CHEMHEAT	Heat from chemical sources	10							0	0		
16	GELEPROD OTHER	Other sources	11							0	0		
				HEAT Unit: TJ									
18	GHEATPRO HEAT	Heat	12		0	0		0	0	0	0		
19	GHEATPRO NUCLEAR	Nuclear	13							0	0		
20	GHEATPRO GEOTHERM	Geothermal	14							0	0		
21	GHEATPRO SOLAR	Solar	15							0	0		
22	GHEATPRO COMBFUEL	Combustible fuels	16							0	0		
23	GHEATPRO HEATPUMP	Heat pumps	17							0	0		
24	GHEATPRO BOILER	Electric boilers	18							0	0		
25	GHEATPRO CHEMHEAT	Heat from chemical sources	19								0		
26	GHEATPRO OTHER	Other sources	20							0	0		

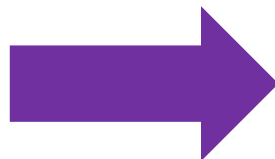
NUCLEAR, BALANCE, GELEPROD, MAINELEC

Export as CSV File

	A	B	C	D	E	F	G	H	I
1	COUNTRY	QUEST	PRODUCT	DATATYPE	ITEM1	ITEM2	TIME	VALUE	STATUS
2	FR	ELE	ELECTR	BALANCE	GELEPROD	MAINELEC	2015	2	
3	FR	ELE	NUCLEAR	BALANCE	GELEPROD	MAINELEC	2015	1	
4	FR	ELE	HYDRO	BALANCE	GELEPROD	MAINELEC	2015	1	
5	FR	ELE	HYDPUMP	BALANCE	GELEPROD	MAINELEC	2015	1	
6	FR	ELE	ELECTR	BALANCE	GELEPROD	MAINCHP	2015	2	
7	FR	ELE	GEO THERM	BALANCE	GELEPROD	MAINCHP	2015	1	
8	FR	ELE	SOLAR	BALANCE	GELEPROD	MAINCHP	2015	1	
9	FR	ELE	ELECTR	BALANCE	GELEPROD	MAINTOT	2015	4	
10	FR	ELE	NUCLEAR	BALANCE	GELEPROD	MAINTOT	2015	1	
11	FR	ELE	HYDRO	BALANCE	GELEPROD	MAINTOT	2015	1	
12	FR	ELE	HYDPUMP	BALANCE	GELEPROD	MAINTOT	2015	1	
13	FR	ELE	GEO THERM	BALANCE	GELEPROD	MAINTOT	2015	1	
14	FR	ELE	SOLAR	BALANCE	GELEPROD	MAINTOT	2015	1	
15	FR	ELE	ELECTR	BALANCE	GELEPROD	AUTOELEC	2015	2	
16	FR	ELE	TIDE	BALANCE	GELEPROD	AUTOELEC	2015	1	
17	FR	ELE	WIND	BALANCE	GELEPROD	AUTOELEC	2015	1	
18	FR	ELE	ELECTR	BALANCE	GELEPROD	AUTOCHP	2015	3	
19	FR	ELE	COMBFUEL	BALANCE	GELEPROD	AUTOCHP	2015	1	
20	FR	ELE	CHEMHEAT	BALANCE	GELEPROD	AUTOCHP	2015	1	
21	FR	ELE	OTHER	BALANCE	GELEPROD	AUTOCHP	2015	1	
22	FR	ELE	ELECTR	BALANCE	GELEPROD	AUTOTOT	2015	5	
23	FR	ELE	TIDE	BALANCE	GELEPROD	AUTOTOT	2015	1	
24	FR	ELE	WIND	BALANCE	GELEPROD	AUTOTOT	2015	1	

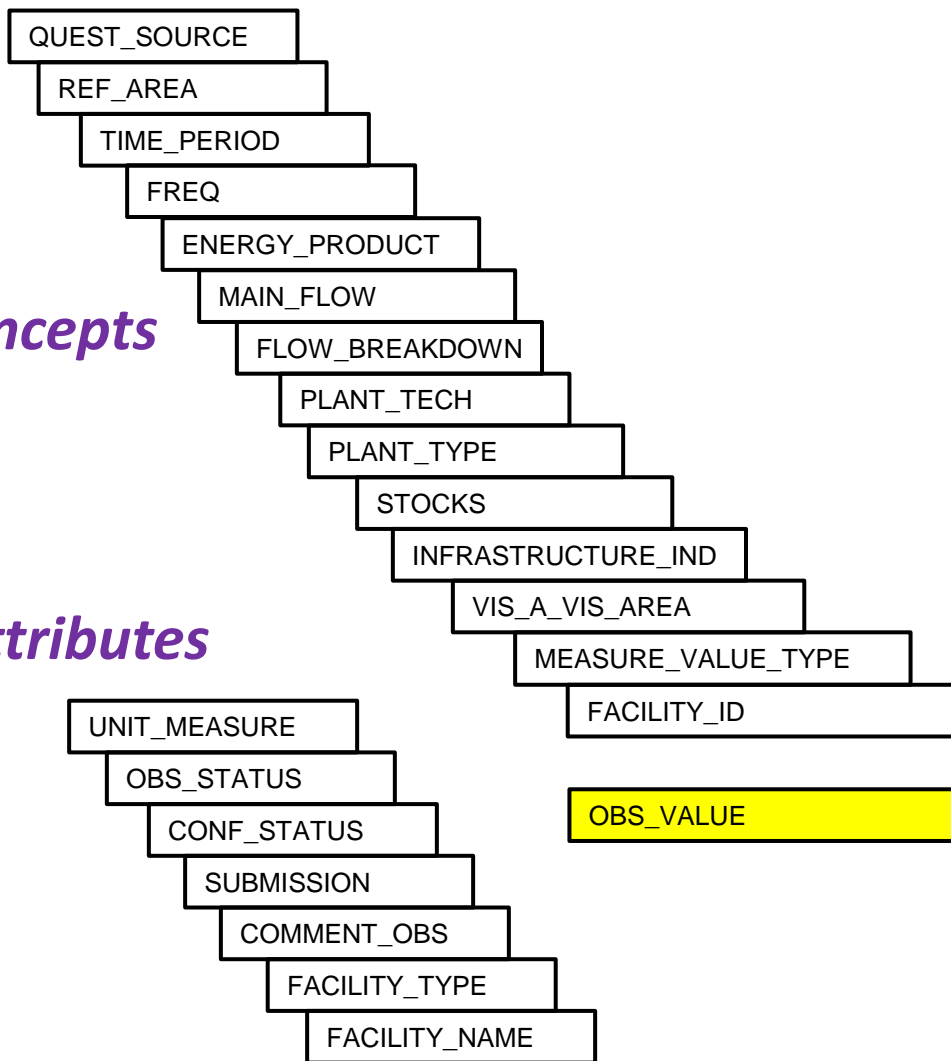
From CSV to SDMX

COUNTRY
QUEST
PRODUCT
DATATYPE
ITEM1
ITEM2
TIME
VALUE
STATUS



Concepts

Attributes



- Energy security
- Environmental protection
- Economic growth
- Engagement worldwide

CSV

COUNTRY	QUEST	PRODUCT	DATATYPE	ITEM1	ITEM2	TIME	VALUE
FRANCE	ELE	ELECTR	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	NUCLEAR	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	HYDRO	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	HYDPUMP	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	GEO THERM	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	SOLAR	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	TIDE	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	WIND	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	COMBFUEL	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	CHEMHEAT	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	OTHER	BALANCE	GELEPROD	AUTOELEC	2007	
FRANCE	ELE	ELECTR	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	NUCLEAR	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	HYDRO	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	HYDPUMP	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	GEO THERM	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	SOLAR	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	TIDE	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	WIND	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	COMBFUEL	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	CHEMHEAT	BALANCE	GELEPROD	AUTOTOT	2007	
FRANCE	ELE	OTHER	BALANCE	GELEPROD	AUTOTOT	2007	

Mapping CSV – SDMX

SDMX

QUEST_SOURCE	REF_AREA	TIME_PERIOD	ENERGY_		FLOW_BREAKD				STOCKS	INFRASTRUCTURE	VIS_A_VIS	MEASURE_VALUE	FACILITY	UNIT_MEAS
			FREQ	PRODUCT	MAIN_FLOW	OWN	PLANT_TECH	PLANT_TYPE						
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	_T	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	NUCLEAR	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	HYDRO	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	HYDPUMP	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	GEO THERM	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	SOLAR	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	TIDE	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	WIND	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	COMBFUEL	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	CHEMHEAT	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	OTHER	AUTOELEC	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	_T	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	NUCLEAR	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	HYDRO	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	HYDPUMP	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	GEO THERM	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	SOLAR	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	TIDE	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	WIND	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	COMBFUEL	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	CHEMHEAT	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh
JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	OTHER	AUTOTOT	_Z	_Z	_Z	ENERGY	_Z	GWh

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Example: Joint Annual Electricity Questionnaire

CSV							SDMX																
COUNTRY	QUEST	PRODUCT	DATATYPE	ITEM1	ITEM2	TIME	VALUE	QUEST_SOURCE	REF_AREA	TIME_PERIOD	FREQ	RODUCT	MAIN_FLOW	KDOWN	PLANT_TECH	PLANT_TYPE	STOCKS	INFRASTRUCTURE	VIS_A_VIS	MEASURE_VALUE_	FACILITY_ID	UNIT_MEASURE	
FRANCE	ELE	ANTCOAL	BALANCE	INPUTTON	MAINELEC	2007		JAQ_ELECT	FR	2007	A	C0110	TRANSFOR	_Z	_Z	MAINELEC	_Z	_Z	_Z	WEIGHT	_Z	kt	
FRANCE	ELE	ANTCOAL	BALANCE	INPUTTJN	MAINELEC	2007		JAQ_ELECT	FR	2007	A	C0110	TRANSFOR	_Z	_Z	MAINELEC	_Z	_Z	_Z	ENERGY	_Z	TJ_NCV	
FRANCE	ELE	ANTCOAL	BALANCE	GELEPROD	MAINELEC	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	MAINELEC	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	ANTCOAL	BALANCE	GELEPROD	TOTAL	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	GASDIES	BALANCE	INPUTTON	AUTOHEAT	2007		JAQ_ELECT	FR	2007	A	O4671	TRANSFOR	_Z	_Z	AUTOHEAT	_Z	_Z	_Z	WEIGHT	_Z	kt	
FRANCE	ELE	GASDIES	BALANCE	INPUTTJN	AUTOHEAT	2007		JAQ_ELECT	FR	2007	A	O4671	TRANSFOR	_Z	_Z	AUTOHEAT	_Z	_Z	_Z	ENERGY	_Z	TJ_NCV	
FRANCE	ELE	GASDIES	BALANCE	GHEATPRO	AUTOHEAT	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	AUTOHEAT	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	GASDIES	BALANCE	GHEATPRO	TOTAL	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	NATGAS	BALANCE	INPUTTJG	AUTOCHP	2007		JAQ_ELECT	FR	2007	A	G3000	TRANSFOR	_Z	_Z	AUTOCHP	_Z	_Z	_Z	ENERGY	_Z	TJ_GCV	
FRANCE	ELE	NATGAS	BALANCE	GELEPROD	AUTOCHP	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	AUTOCHP	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	NATGAS	BALANCE	GHEATPRO	AUTOCHP	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	AUTOCHP	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	NATGAS	BALANCE	GELEPROD	TOTAL	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	NATGAS	BALANCE	GHEATPRO	TOTAL	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	MUNWASTER	BALANCE	INPUTTJN	MAINCHP	2007		JAQ_ELECT	FR	2007	A	W6200R	TRANSFOR	_Z	_Z	MAINCHP	_Z	_Z	_Z	ENERGY	_Z	TJ_NCV	
FRANCE	ELE	MUNWASTER	BALANCE	GELEPROD	MAINCHP	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	MAINCHP	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	MUNWASTER	BALANCE	GHEATPRO	MAINCHP	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	MAINCHP	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	MUNWASTER	BALANCE	GELEPROD	TOTAL	2007		JAQ_ELECT	FR	2007	A	E7000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	MUNWASTER	BALANCE	GHEATPRO	TOTAL	2007		JAQ_ELECT	FR	2007	A	H8000	GROSPROD	_Z	???	_T	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	TOTCAP	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	_Z	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	NUCLEAR	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	NUCLEAR	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	HYDRO	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	HYDRO	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	HYDPUMP	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	HYDPUMP	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	GEOTHERM	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	GEOTHERM	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	SOLAR	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	SOLAR	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	TIDE	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	TIDE	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	WIND	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	WIND	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	COMBFUEL	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	COMBFUEL	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	OTHER	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	OTHER	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	COAL	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	COAL	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	LIQFUELS	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	LIQFUELS	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	GAS	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	GAS	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	PEAT	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	PEAT	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	OTHCOMB	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	OTHCOMB	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	SOLLIQ	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	SOLLIQ	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	SOLGAS	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	SOLGAS	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	LIQGAS	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	LIQGAS	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	SOLIGAS	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	SOLIGAS	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	STEAM	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	STEAM	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	INTCOMB	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	INTCOMB	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	GASTURB	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	GASTURB	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	COMBINED	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	COMBINED	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	OTHGEN	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	OTHGEN	MAINTOT	_Z	NETCAP	_Z	POWER	_Z	MW	
FRANCE	ELE	PEAKLOAD	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	MAINTOT	_Z	NETCAP	_Z	PEAKLOAD	_Z	POWER	_Z	MW
FRANCE	ELE	PEAKCAP	CAPACITY	MAINTOT		2007		JAQ_ELECT	FR	2007	A	E7000	_Z	_Z	MAINTOT	_Z	NETCAP	_Z	PEAKCAP	_Z	POWER	_Z	MW
FRANCE	ELE	ELECTR	IMPORTS	GERMANY		2007		JAQ_ELECT	FR	2007	A	E7000	IMPORTS	_Z	_Z	_Z	_Z	_Z	DE	ENERGY	_Z	GWh	
FRANCE	ELE	ELECTR	IMPORTS	TOTIMPST		2007		JAQ_ELECT	FR	2007	A	E7000	IMPORTS	TOTIMPTR	_Z	_Z	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	HEAT	IMPORTS	SPAIN		2007		JAQ_ELECT	FR	2007	A	H8000	IMPORTS	_Z	_Z	_Z	_Z	_Z	ES	ENERGY	_Z	TJ	
FRANCE	ELE	HEAT	IMPORTS	TOTIMPST		2007		JAQ_ELECT	FR	2007	A	H8000	IMPORTS	TOTIMPTR	_Z	_Z	_Z	_Z	_Z	ENERGY	_Z	TJ	
FRANCE	ELE	ELECTR	EXPORTS	BELGIUM		2007		JAQ_ELECT	FR	2007	A	E7000	EXPORTS	_Z	_Z	_Z	_Z	_Z	BE	ENERGY	_Z	GWh	
FRANCE	ELE	ELECTR	EXPORTS	TOTEXPST		2007		JAQ_ELECT	FR	2007	A	E7000	EXPORTS	TOTEXPTR	_Z	_Z	_Z	_Z	_Z	ENERGY	_Z	GWh	
FRANCE	ELE	HEAT	EXPORTS	ITALY		2007		JAQ_ELECT	FR	2007	A	H8000	EXPORTS	_Z	_Z	_Z	_Z	_Z	IT	ENERGY	_Z	TJ	

Mapping CSV-SDMX

- Check that all data points are well defined
- Potential conceptual issues (concept scheme)
- Better definition of Shortnames used
- Identification of missing codes

 Optimisation of the DSD Matrix

... work in-progress