
ENERGY RESOURCES

(CONSUMPTION, PLANNING, FINANCING)

ENERGY RESOURCES CONSUMPTION IN 2010

Energy resources	Total actual consumption, 2010	Ignalina Programme (UTS)	Other funding source	UTS, %
Electricity, MWh	141 137	133 833	7 304	95
Heat, MWh	217 068	182 651	34 417	84
Gas, m3	16 591 726	16 591 726	0	100
Water, m3	250 253	0	250 253	0

Main funding criteria according to UTS Project

- Only energy resources costs incurred on the INPP site or in buildings of its immediate vicinity and directly associated with the post-operation of INPP and its decommissioning are eligible for payment;
- Energy resources consumption must be metered on a monthly basis.

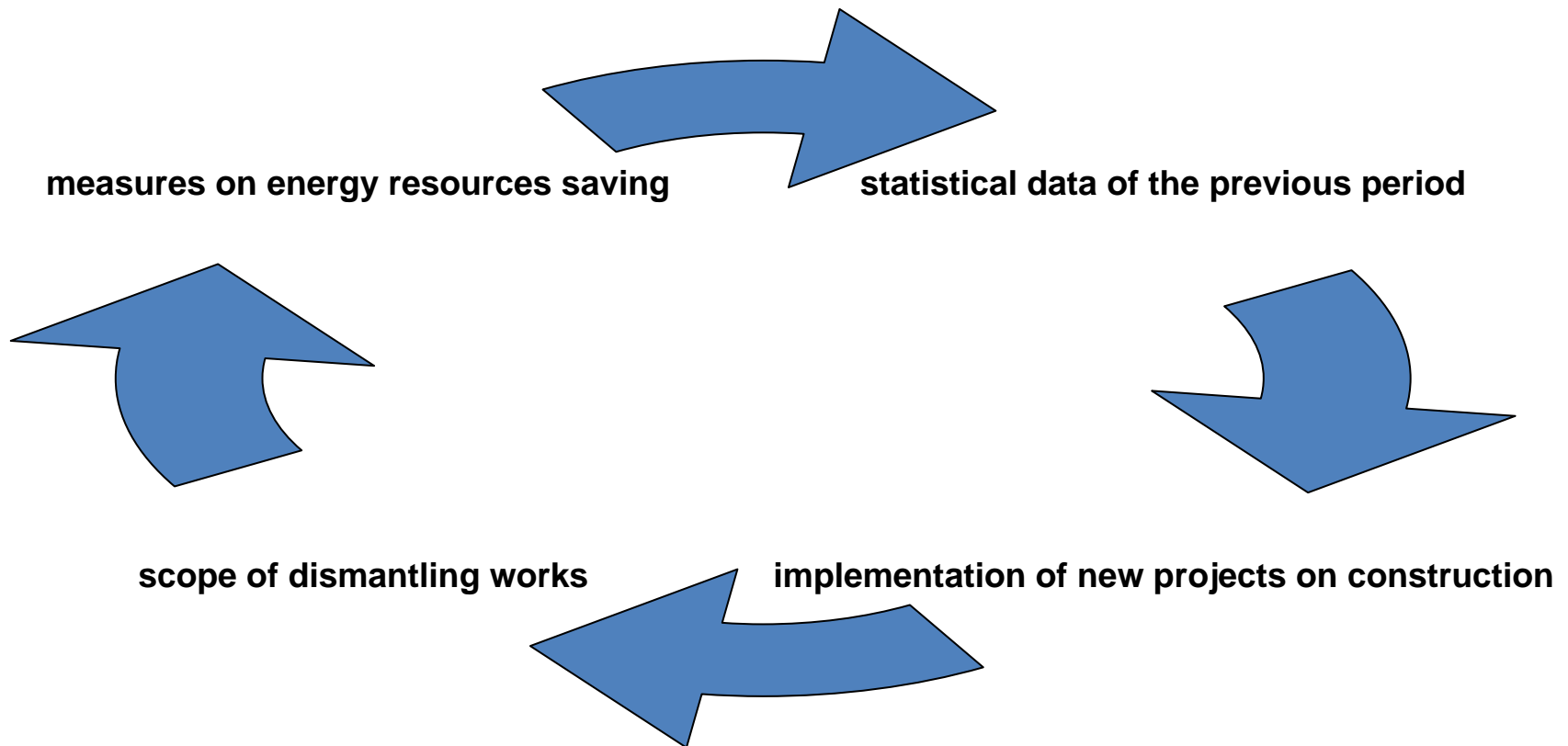
Main problems of UTS.10 implementation, their solving and impact on UTS.11

PROBLEM (UTS.10)	SOLVING	UTS.11
External companies without meters on the INPP main site	Bounding threshold values below all energy resources costs would be deemed ineligible were set	No external companies without meters on the INPP site
Heat loss on the pipeline division from the HOSB to INPP (7 km) was calculated by the procedure in accordance with the LR legislation.	By CPMA demand, heat loss calculation was estimated by the independent experts but the conclusions were considered to be inadequate.	Heat loss is not payable by the UTS.11 criteria
<p>Water consumption was sharply reduced after Unit 2 shutdown. It was necessary to replace main water flow meter.</p> <p>Because of technological process difficulties at the HOSB it is impossible to provide water calculation adequate to EC requirements and UTS criteria</p>	The meter was replaced by more sensitive one.	<p>Water consumption was excluded from UTS.11 until calculation of water consumption corresponds to EC requirements.</p> <p>HOBS was separated from INPP.</p>

PLANNING OF ENERGY RESOURCES



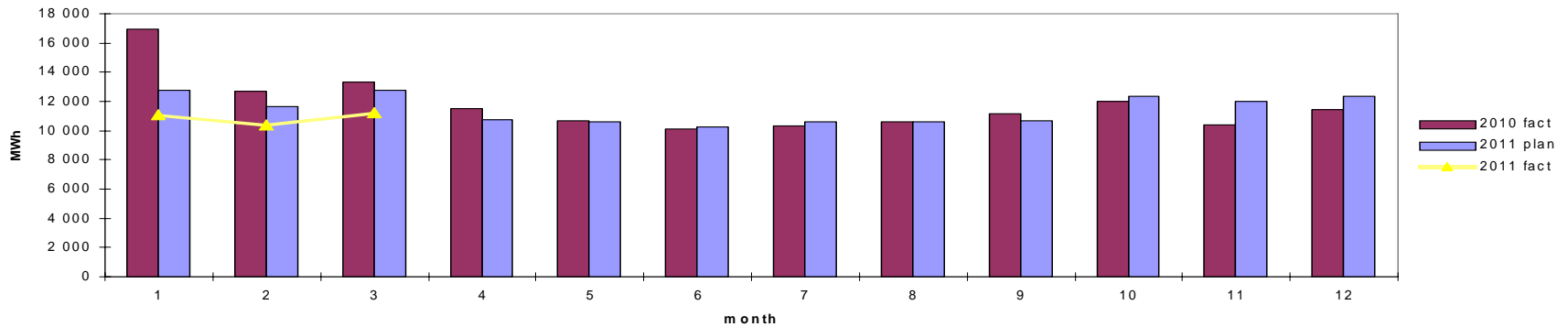
While planning energy resources for the next year the following factors are considered



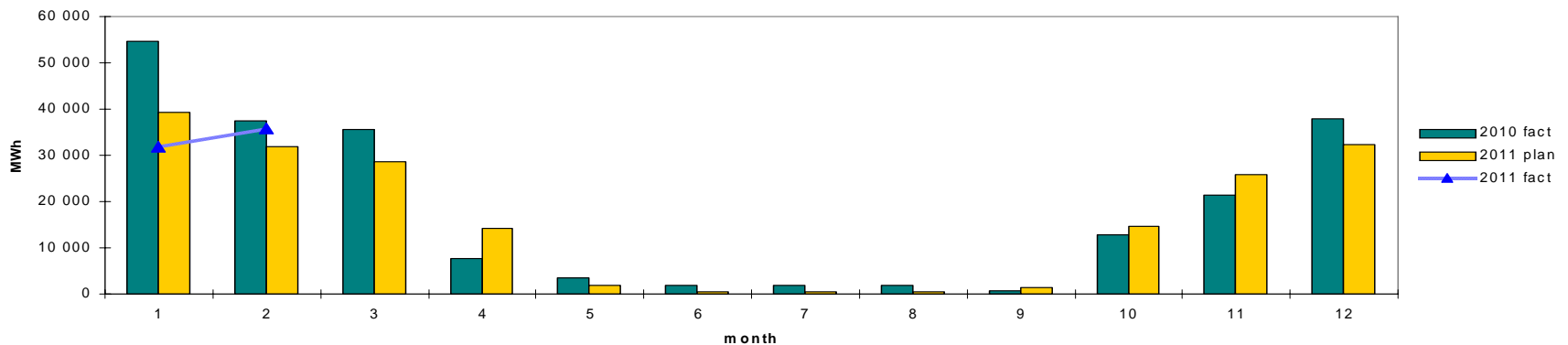
ENERGY RESOURCES CONSUMPTION IN 2011

Considerable saving of energy resources was reached at INPP in 2010. INPP tries to keep it in 2011 in spite of increasing volume of works on dismantling and new construction.

Consumption of electricity



Consumption of heat



EC conditionalities – total funding sum amounts to 20.000 MEUR.



Original UTS.11 PIF

Energy resources	Estimated Consumption	Estimated Unit Price	Rounded Cost MEUR
Electricity	135 551 150 kWh	0.0811 €	10.995
Heat	190 970 MWh	66.6126€	12.725
Gas	5 000 000 m3	0.4344 €	2.175
Water	201 720 m3	0.6082 €	0.125
Wastewater treatment	201 720 m3	1.1000 €	0.222

Amended UTS.11 PIF

Energy resources	Estimated Consumption	Estimated Unit Price	Eligible Budget MEUR
Electricity	135 551 150 kWh	0.0811 €	20.000
Heat	190 970 MWh	66.6126€	
Gas	5 000 000 m3	0.4344 €	
Water	201 720 m3	0.6082 €	Deleted
Wastewater treatment	201 720 m3	1.1000 €	Deleted

EC conditionality can be fulfilled by reducing two factors

QUANTITY



Program of Energy Resources Saving

PRICE



Competitive consumer



PROGRAM OF ENERGY RESOURCES SAVING

2010

1. Optimization of ventilation systems' operation at buildings 101/1 and 101/2;
2. Reduction of coolant consumption for conditioning of ventilation systems;
3. Optimization of working places of INPP personnel;
4. Deactivation of non-operating equipment and systems;
5. Inspection of underground pipelines of domestic-and-drinking water at the INPP main site to detect water leakage;
6. Deactivation of own needs and working transformers to avoid idle running loss.

2011

1. Question on rejection hot water supply in summer period will be considered;
2. Optimization of ventilation systems' operation will continue;
3. Replacement of a large capacity pump used for cooling of equipment by a pump with less capacity;
4. Optimization of electric lighting system;
5. Optimization of gas consumption at the steam boiler house;
6. Buildings' insulation.



IMPACT ON HEAT PRICE



- Till September 17, 2010 INPP owned the HOBS and produced heat for own needs and for needs of the town of Visaginas
- In September the HOBS was separated and INPP began to buy heat from SE Visagino energija.
- It resulted in changes of heat tariff's components**

INPP owns HOBS

Price of production

INPP buys thermal energy

Price of production (72,8 %)
Transmission* charge (27,2 %)

* 10% for sending, 16% for heat losses , 1.2 % sales margin

- As INPP is the main consumer of heat, according to the LR legislation, INPP addressed to NCCPE for revision of current tariff.

