CESI

MARKET MECHANISMS FOR WHITE CERTIFICATES: ISSUES AND CHALLENGES IN DEVELOPING NEW POLICY MEASURES

Antonio Capozza T&D Networks MAIN GOAL

Establishment of

Energy Saving programmes on energy end-uses

STEP I

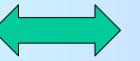
A Public Board (e.g. Governmental) defines:

Energy saving national targets (e.g. Mtoe/year) Eligible Energy Saving Projects Obligation-bound actors (**OB**) Apportionment of the global target on **OB**'s Eligible implementers of Energy Saving Projects (**EI**)

STEP II

Equivalence between attained target and a proportional amount of White Certificates (WhC)

N saved toe



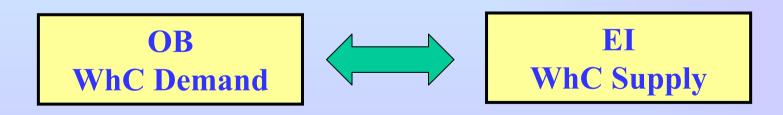
M White Certificates

"White certificates": <u>certificates issued by</u> <u>independent certifying bodies confirming the claims of</u> <u>market actors for savings of energy, as a consequence</u> <u>of energy end- use efficiency measures</u> (From Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on energy end-use efficiency and energy services)

STEP II

OB must comply with a WhC target obligation: WhC demand

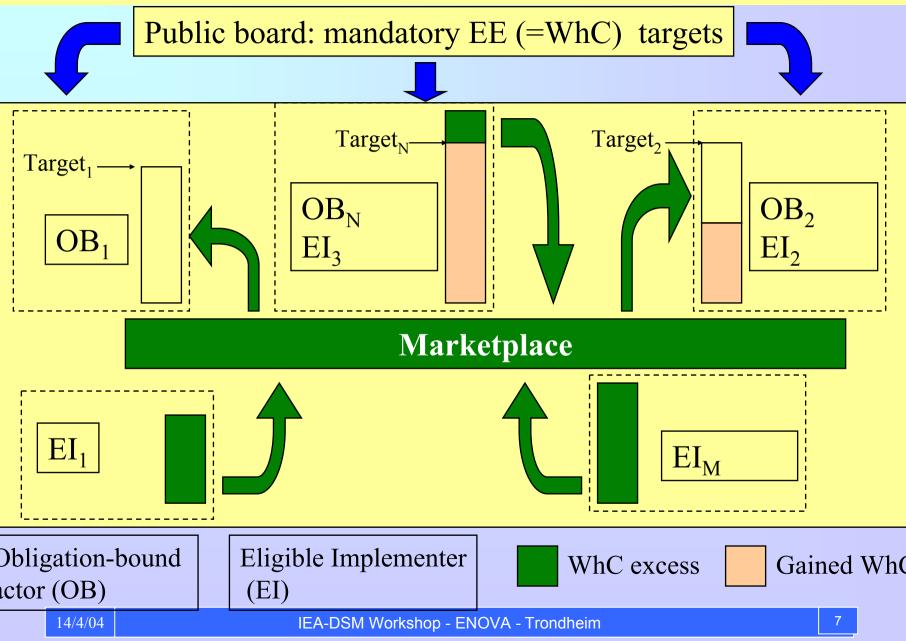
EI may gain and own WhC: WhC supply



STEP III

A market can be established where WhC demand and offer match: **OB** can buy lacking WhC to reach their target **El** can sell their WhC surplus: they have no target to match or they gained WhC above their target

GENERAL SCHEME



Obligation-bound actors = WhC target fulfilment: who?

producers?

distributors (e.g. in Italy, distributors over a threshold)? retailers?

consumers?

Eligible implementers of Energy Saving Projects = WhC gain: who? obligation-bound actors? exempted actors (e.g. in Italy: distributors below the threshold)? energy services companies (ESCO)? minimum requirements? official register? consumers? all? only large ones? market intermediaries?

Apportionment criteria for Energy Savings targets on OB (= WhC targets) : how? number of served customers? volume of distributed electricity? Eligible (= WhC generating) Energy Saving **Projects**: criteria size valuation of the saving impact = n. of WhC generated persistence of the saving effects

Trading mechanisms: participants to the market lifetime of certificates frequency of transactions safety rules banking Interaction with other trading schemes (REC, ET) Chance of extra-national enlarged market: within EU (Proposal EU Directive on EE in end-uses) within OCDE

Italian targets

Twins Ministerial Decrees of April 2001

Mandatory quantitative targets of primary energy savings at the national level (against the "business as usual" scenario)

Year	Target (Mtoe/Yr)	
	Electricity	Gas
2002	0,1	0,1
2003	0,5	0,4
2004	0,9	0,7
2005	1,2	1,0
2006	1,6	1,3

Obligation-bound actors

Electricity and Gas Distributors Threshold: 100.000 customers as at 31.12.2001 gas: 22 distributors; 60% of total customers electricity: 8 distributors; 98% of total customers

Apportionment criteria

Apportionment on the basis of the quantity of electricity/gas distributed to final customers compared to the national total, in the previous year

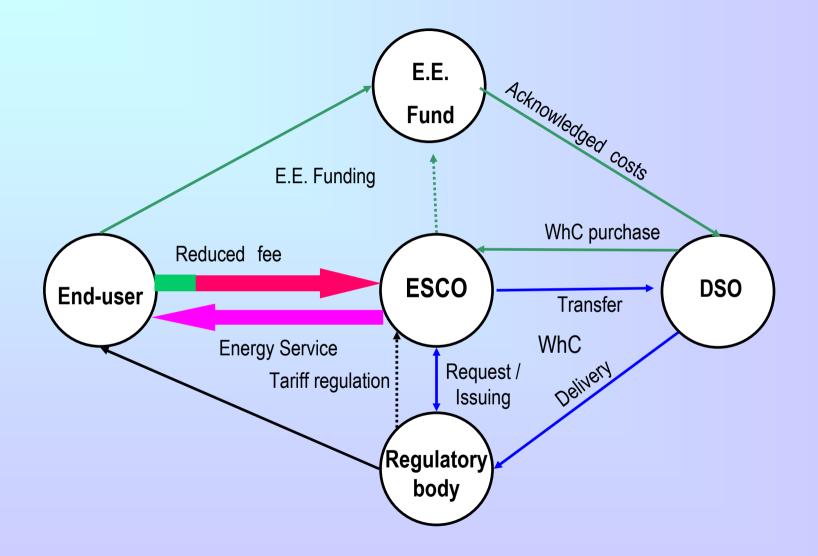
Eligible Energy Saving projects

only demand-side actions (energy savings in generation uneligible)

illustrative list: 14 classes of projects with more than 35 sub-classes; among the others: use of high efficiency electric devices/motors, substitution with electric energy where convenient containment of electricity leaking (stand-by) increasing efficiency of lighting systems power factor regulation in final uses improving the combustion efficiency building insulation

Eligible Implementers of the Projects

distributors (directly or via controlled companies) ESCOs (still to develop)



WILL IT WORK?

Implementation

time-shift of targets: 2 years planned start-up: May 2004 Energy Savings certification = WhC issuing: within 2004 WhC trading: from 2005 on Handled by the Electricity Market Operator First verification of target matching: May 2005

WILL IT WORK?

Other interested Countries:

UK and New South Wales (Australia) are handling a similar scheme France is going to introduce WhC trading Sweden and Norway are interested in principle to the subject Interest was stated also by Germany, Holland and Hungary

WILL IT WORK?

A new task on WhC trading is going to be launched within IEA-DSM:

Italy France Norway Sweden UK Hungary (as observer)

THANK YOU

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