



### PROJECT DESCRIPTION

- ✓ 4.6 million distribution transformers (DTs) in EU-27
- ✓ DT losses exceed 33 TWh/year
- ✓ SEEDT objectives
  - promote the use of energy efficient DTs
  - propose strategies for reducing energy losses
- ✓ SEEDT activities
  - data collection from all European countries
  - analysis of the potentials and impacts
  - calculated savings: more than 12 TWh/y and 4 Mtn/y CO<sub>2</sub> emissions until year 2025 in EU-27



### ACHIEVED RESULTS

#### IDENTIFICATION of problems

- ✓ Analysis on the existing situation on DTs and the available existing solutions
- ✓ Discussion regarding the technical and non-technical measures to be taken
- ✓ Feedback from key actors, policy makers, electric utilities, energy producers and transformer manufacturers

#### DISSEMINATION of SEEDT objectives

- ✓ SEEDT organized workshops and round table discussions in Europe
- ✓ The project team promoted SEEDT objectives in energy conferences
- ✓ Publication of 4 biannual newsletters
- ✓ Website of the project

#### TECHNICAL ASSISTANCE

- ✓ A web based interactive tool
- ✓ A technical guide for DT users

#### PROPOSED POLICIES AND MEASURES

- ✓ Energy classification (labelling) of DTs
- ✓ Minimum efficiency mandatory standard
- ✓ Intensive mechanisms & changes in the regulation schemes of the EU countries

#### CALCULATION OF POTENTIALS AND IMPACTS

- ✓ Development of a model for the calculation of the energy saving potential and CO<sub>2</sub> emissions

#### ECO DESIGN Directive

- ✓ SEEDT team supported the inclusion of DTs in the list of products of the Eco Design Directive

### PROPOSALS

Overview on policies and measures for the different market actors										
Market actor	Regulation	Mandatory standard	Labelling	Incentives from obligations or certificate schemes	Other financial or fiscal incentives	Information, motivation, qualification	Inclusion into energy advice / audit programmes	Toolkit for buyers	Co-operative procurement	R&D, pilot / demonstration projects
Larger electricity distribution companies	●	○	○	○ if not regulation	○ if not regulation	○		○ ○	●	
Large industry		○	○		○	○		● ○	●	
Smaller electricity distribution companies	●	○	●	○ if not regulation	○ if not regulation	●		● ●	●	
Small and medium industry and commerce			●		●	●		● ○	●	
Engineering firms, ESCOs, energy consultants, planners			●		○	●	Service provider	● ○ ○		
Transformer manufacturers (and their suppliers)				Compliance required					Can include it in marketing	

● = main focus within policy mix for this market actor  
○ = only partly relevant for this market actor, or just addressing small part within this target group

### TECHNICAL ASSISTANCE AND DESSEMINATION

#### SEEDT TLCalc

#### Minimum efficiency standard

#### Policies and measures

- ✓ Intensive mechanisms
- ✓ Changes in the regulation schemes of the EU countries

<http://seedt.ntua.gr>



ADEME



AERSE

AREVA

AREVA T&D

Spółka z ograniczoną odpowiedzialnością

Endesa Distribución Eleéctrica

Federazione delle Associazioni Scientifiche e Tecniche

Łódzki Zakład Energetyczny S.A.

Polish Copper Promotion Centre

Wuppertal Institut für Umwelt Klima, Energie GmbH im Wissenschaftszentrum Nordrhein-Westfalen

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# Intelligent Energy



# Europe