



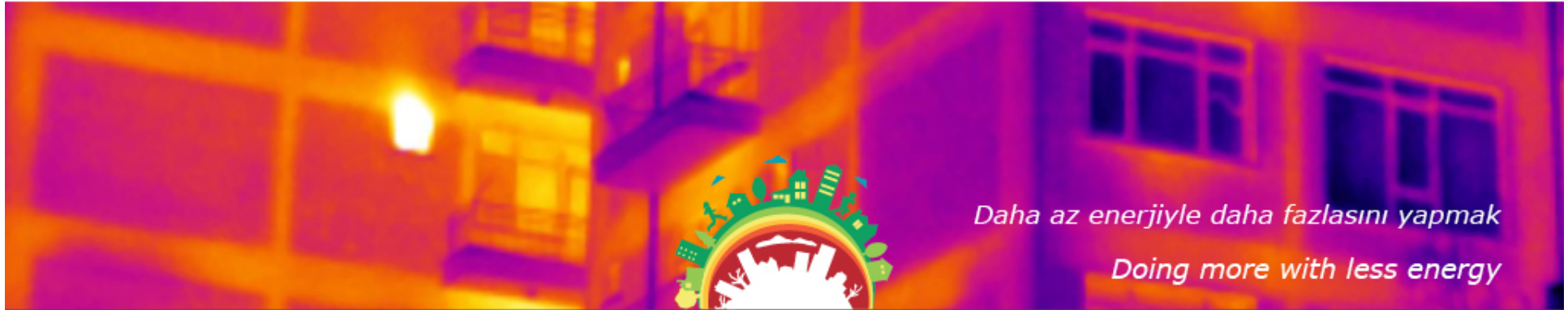
Bu proje Avrupa Birliđi ve Trkiye Cumhuriyeti
tarafından finanse edilmektedir.
This project is co-financed by the European Union
and the Republic of Turkey

Binalarda Enerji Verimliliđinin Artırılması iin Teknik Yardım Projesi Technical Assistance for Improving Energy Efficiency in Buildings Project

Introduction to the Project

October 1st, 2015

Ahmad Husaunndee, Team Leader; Robert Pochyluk, KE; Richard Tomiak, KE



NIRAS





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Objective

❖ The overall aim of the EE Strategy should be to improve:

- Security of supply
- Market competitiveness
- Environmental protection
- The economic situation (employment, business opportunities, etc.)





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Purpose

- ❖ Better design of new buildings
- ❖ Establishment of refurbishment principles for existing buildings
- ❖ Scope:
 - ❖ Public buildings (administrative office buildings, schools, hospitals)
 - ❖ Residential buildings (detached houses, block of flats, residence complexes)





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Consortium

❖ Lead of consortium



- ❖ NIRAS IC Sp. z o. o. belongs to the International Division (NIC) of the NIRAS Group, a consultancy and engineering company working with worldwide donor agencies
- ❖ NIRAS has more than 1400 permanent employees with working experience from more than 85 countries in Europe, Africa, Latin America, the Middle East and Asia





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Consortium members



Energy Saving International AS (ENSI) is a Norwegian company that offers local and international consulting services in the area of: capacity building on energy, energy efficiency, renewables and the environment in developing and early transition countries



Danish Technological Institute (DTI) was founded in 1906, DTI is an independent, non-profit institution approved by the Danish authorities to provide technological services to business and the community.



RAST Engineering Services Ltd. Co. established in 1994, is based in Turkey providing services in infrastructural and environmental engineering projects. It also provides services in the energy, superstructure and transportation sectors.





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Project Team

- ❖ 5 permanent Staff
- ❖ Pool of about 20 short term non-key experts (international and local)





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Project phases



❖ Phase A: Research, Analysis and Preparatory works

- ❖ Development of a strategy on energy efficiency in buildings
- ❖ Improvement of secondary legislation, building codes and standards

❖ Phase B: Capacity building

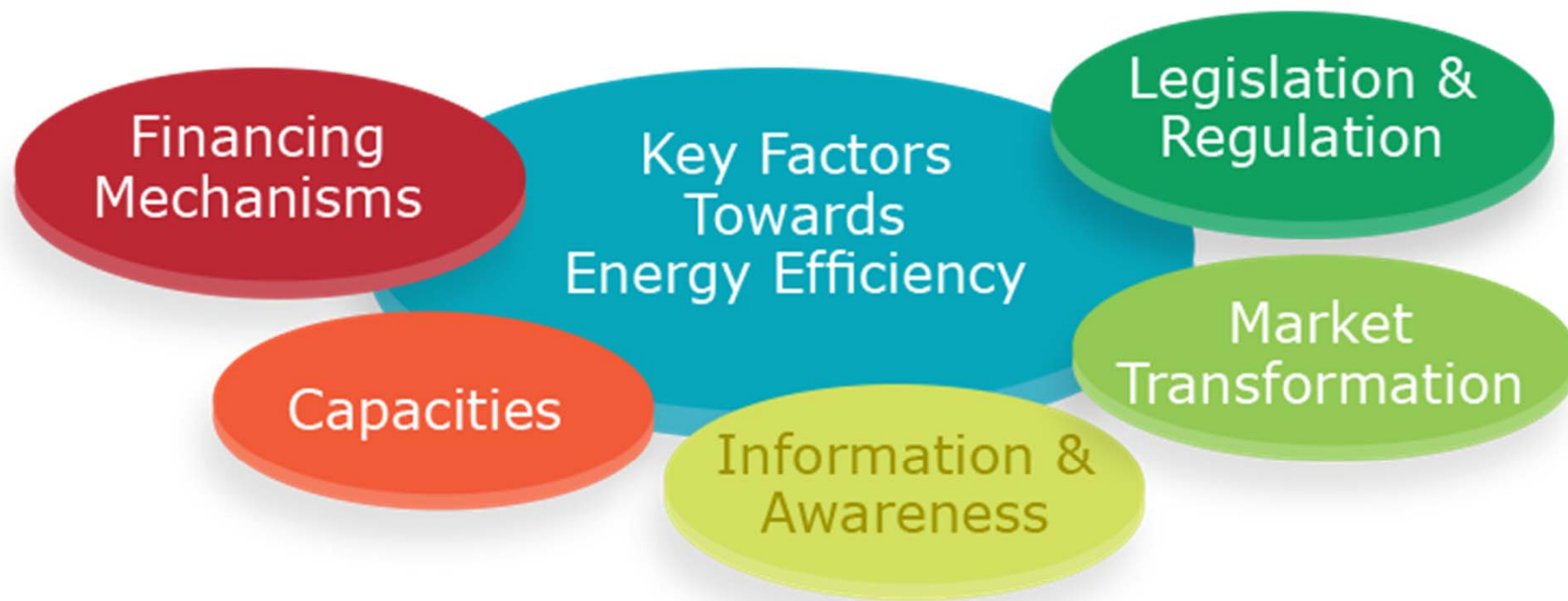
- ❖ Provision of tools and instruments to support enforcement of regulations
- ❖ Training and awareness raising





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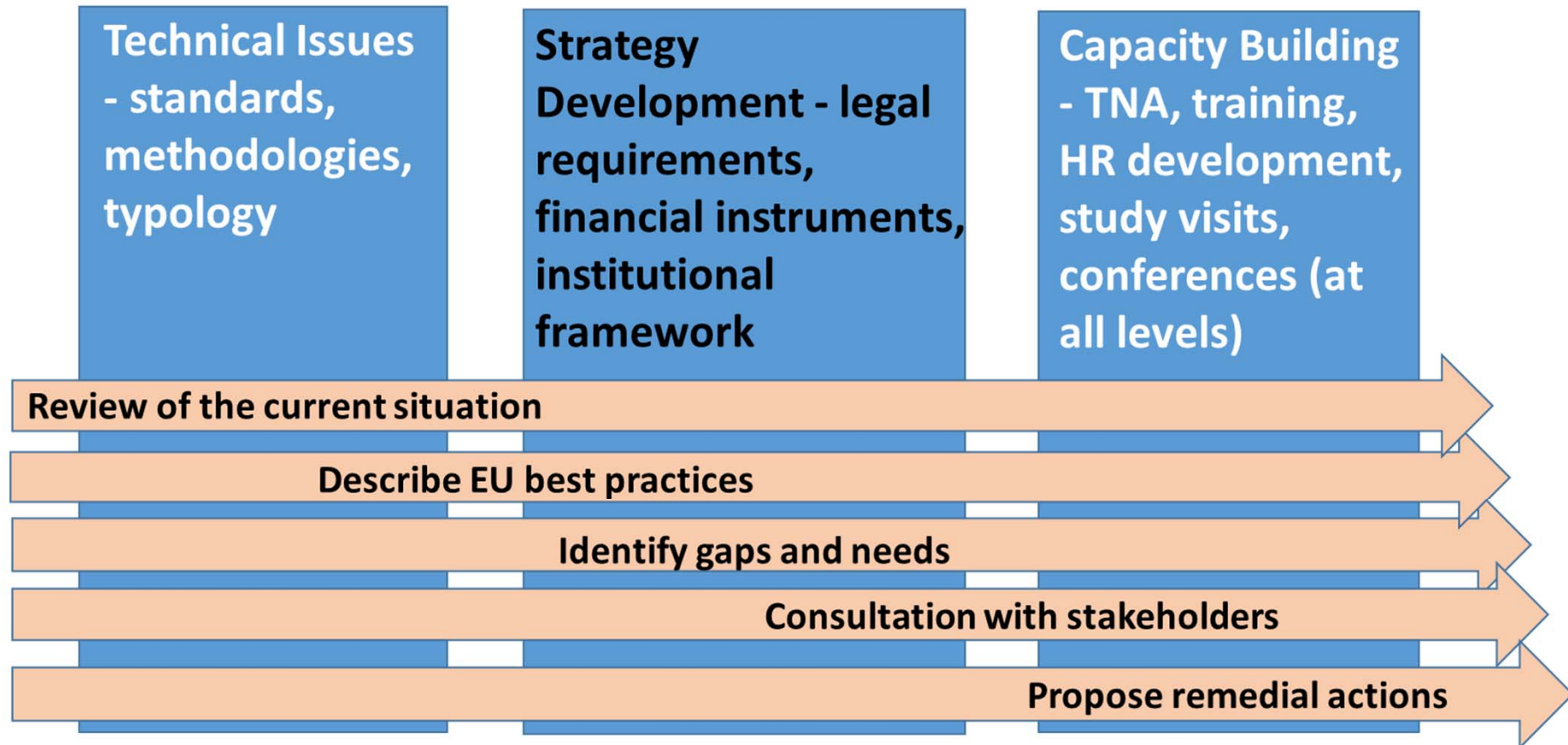
Implementing Energy Efficiency





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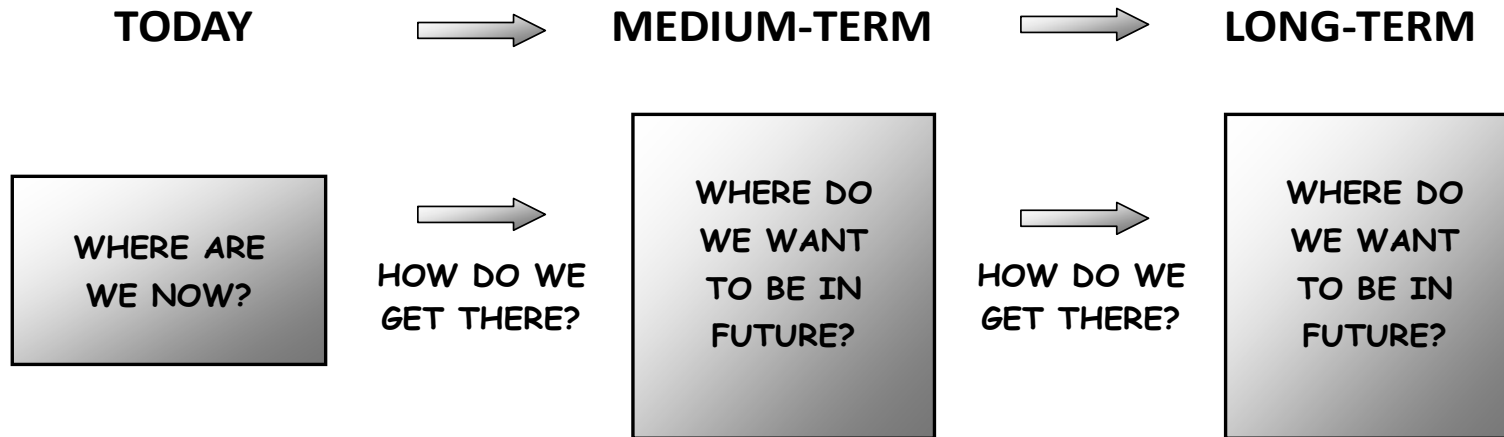
Improving EE in Buildings





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Strategic Planning





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Strategic Planning

TODAY



MEDIUM-TERM



LONG-TERM

WHERE ARE
WE NOW?



HOW DO WE
GET THERE?

WHERE DO
WE WANT
TO BE IN
FUTURE?



HOW DO WE
GET THERE?

WHERE DO
WE WANT
TO BE IN
FUTURE?

Current BEP
Regulations
based on
**DIRECTIVE
2002/91/EC**



**"IMPROVING
EE IN
BUILDINGS"
PROJECT**

Strengthen
and clarify
the BEP
Regulations,
implement
**DIRECTIVE
2010/31/E**



**EXECUTE
DIRECTIVE
2010/31/EU**

Deliver the
Energy
Strategy
(2012-2023)



Energy Strategy Paper (2012 – 2023)

- **SG-01:** to reduce energy density and energy losses in industry and services sector,
- **SG-02: to reduce energy demands and carbon emissions of buildings; to generalize sustainable environment friendly buildings using renewable energy resources,**
- **SG-03:** to provide market cycle of energy-efficient products,
- **SG-04:** to increase efficiency in power generation, transmission and distribution; to reduce energy losses and hazardous environment emissions,
- **SG-05:** to reduce unit fossil fuel consumption of motor vehicles; to increase public transport share motorways, seaways and railways and to prevent unnecessary fuel consumption in urban transportation,
- **SG-06: to use energy efficiently and effectively in public sector,**
- **SG-07: to enhance institutional structures, capacities and cooperation; to increase advanced technology use and awareness raising activities; to establish financing environments**





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BEP Strategy bjectives

The mix of measures will depend upon the Turkish Government' financial, fiscal and social policies:

(a) Financial measures – financed from loans and credit line schemes or from multi-annual budget financing

- Preferential loans
- Multi-annual accounting (public finance)
- Credit lines for SMEs and households
- Subsidies (from internal finance) and grants (from external finance)
- Loan guarantee schemes for private banks (external finance)
- Energy price reforms



BEP Strategy Objectives

(b) Fiscal measures – activities financed and/or stimulated by the use of tax policy

- Carbon, energy or environmental taxes
- Tax rebates (VAT, investment incentives)

(c) Delivery mechanisms – dependent on the availability of specific assistance or imposition of various legal obligations

- TA for (a) project identification and (b) preparation of loans or public procurement documentation
- ESCO market, with performance contracting and third-party financing
- Legal obligations for utilities (possibly including trading certificates)
- Energy-efficiency funds (especially revolving funds)
- Non-financial incentives/voluntary agreements





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BEP Strategy Objectives

(d) Institutional arrangements – BEP activities developed/managed by public institutions

- MoEU, MENR, Turkish Energy Efficiency Agency?
- Public ESCOs

(e) Technical standards and definitions

- Definition of requirements for new buildings and implementation procedures
- Definition of principles for energy efficient refurbishment which can be quantified and verified
- Definition of typical buildings for energy performance assessment and setting up of a building data inventory (use for policy making and long term strategy)





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Capacity Building

- Short term:
 1. Training needs analysis related to the existing framework (enforcement the current BEP regulations,
 2. Providing knowledge for MoEU Staff and other stakeholders.
- Long term:

Development of HR strategy in line with the overall BEP strategy.





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Capacity Building Training for MoEU

- 1 day training for MoEU officials;
- 4 x 3 days sessions to be held in Ankara (for MoEU Staff from 4 climate zones)

Objective: to train working staff of the MoEU (central and provincial departments) to enable them on the implementation of the BEP with particular focus on the compliance of EE standards.





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Capacity Building Training for Trainers (MoEU)

- 3 days session (in common with B1)
- 1 day extra training on BEP
- 2 days on didactics

Objectives:

- *to train a group of 25 experts of MoEU to become trainers for provision of follow-up training on BEP implementation subjects.*
- *to develop highly skilled and experienced local instructors to deliver the future training for on BEP implementation.*





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Capacity Building

Study Visits to EU

1. Denmark/Poland
2. Italy/France (Spain)

Objectives:

- *to demonstrate to the participants best practices in Member States in the implementation of EU EPB directive;*
- *to expose the participants to dialogue with policy makers and public institutions involved in implementing EU BEP legislation;*
- *to expose the participants to the lessons learnt in the accession countries;*
- *to explore institutional set-up and capacity building issues for implementation of EU EPB directive.*





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Capacity Building Regional Seminars

2 days seminars in: Ankara, Antalya, Istanbul, Erzurum, Samsun, Gaziantep.

October 2016

Objectives:

- *integrate regional stakeholders into the legislation revision process,*
- *consult local stakeholders (not only public administrations), consider their SWOT and build consensus, commitment and support.*





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Capacity Building International Conferences

13 participants from MoEU staff participating in
8-9 international events
(1-2 experts at one event)

Objective: to assist the MoEU in development and extension of international cooperation.





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Thank you for your attention



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