

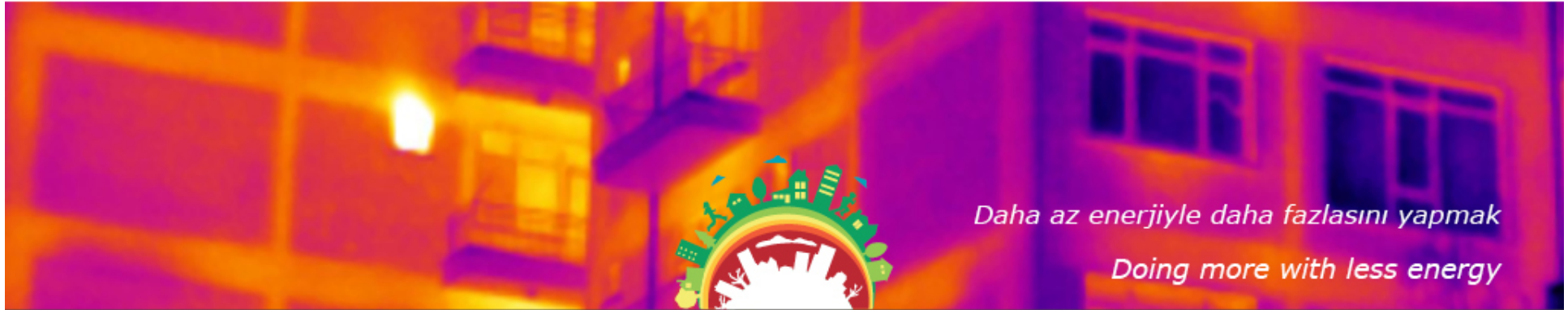


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This project is co-financed by the European Union and the Republic of Turkey

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

EU ENERGY PERFORMANCE IN BUILDINGS DIRECTIVE(EU EPBD)

Tahir YKSEKKAYA



NIRAS





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EU EPBD

❖ 2020 European Strategy: European Strategy for smart, sustainable and inclusive growth.



- ❖ • Reducing the greenhouse gas emission of at least 20% compared to 1990,
- ❖ • Increasing the share of renewable energy to 20 % in EU's energy consumption
- ❖ • Providing 20% of energy efficiency





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❖ EU Legislation on Energy Efficiency

- ❖ 2004/8/EC (Cogeneration Directive)
- ❖ 2010/30/EU (Energy Labelling Directive)
- ❖ 2009/125/EC (Eco-Design Framework Directive)
- ❖ 2006/32/EC Directive
 - **2012/27/EU Directive (Energy Efficiency Directive)**
- ❖ 2002/91/EC Directive
 - **2010/31/EU Directive (EPBD)**





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❖ Turkish Legislation Regarding the Energy Efficiency in Buildings

- ❖ Energy Efficiency Law No: 5627
- ❖ Regulation on Increasing Efficiency in the Use of Energy Resources and Energy
- ❖ Regulation on Energy Performance of Buildings
- ❖ Regulation Regarding the Allocation of Heating and Sanitary Hot Water Expenditures in Central Heating and Sanitary Hot Water Systems





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❖ Other Important Documents Regarding the Energy Efficiency in Building

- ❖ Tenth Development Plan
- ❖ Energy Efficiency Strategy Paper (2012-2023)
- ❖ Climate Change Action Plan
- ❖ The EU Acquis Harmonization Program (2014-2016)





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❖ Regulation on Energy Performance of Buildings

- ❖ Published on Official Gazette dated 25/12/2008
- ❖ It is based on EU Directive No: 2002/91/EC “Directive Energy Performance of Buildings”
- ❖ It abolished the Regulation regarding Heat Insulation in Buildings dated 09/10/2008.
- ❖ It was subjected to a serious revision according to the amendmends made in 2010 and 2011





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❖ Regulation on Energy Performance of Buildings

- ❖ Existing + new buildings
- ❖ In addition to heating, the efficiency in areas and systems such as cooling, ventilation, electricity and hot water.
- ❖ Certification of buildings regarding the energy consumption and greenhouse gas emission by labelling them between “A” and “G” classes.
- ❖ Labelling the existing buildings’ EPCs by the end of 2017



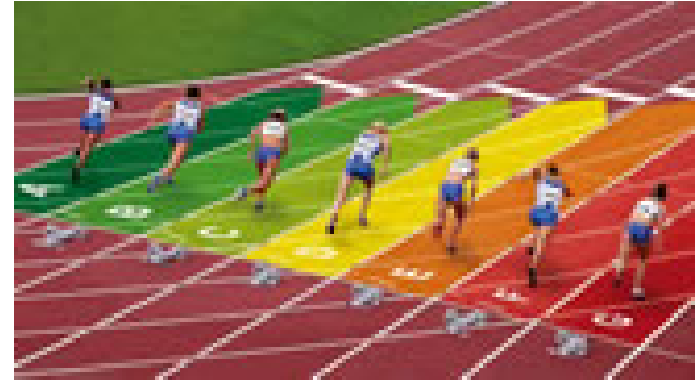


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❖ 2012/27/EU DIRECTIVE

- ❖ Annual Renewal of at least 3% of public buildings.
- ❖ Annual energy saving measures
- ❖ Public biddings
- ❖ The use of smart meters
- ❖ The use of individual consumption meters in multi-dwelling buildings
- ❖ Consumer and billing information





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❖ 2010/31/EU DIRECTIVE

- ❖ • General conditions are set in the Directive, the member states are entitled for publication of detailed legislations regarding these general terms and conditions.
- ❖ • Member States shall inform the Commission of their studies according to these conditions.
- ❖ • The concept of “ Nearly zero energy building”
- ❖ • “ Financial incentives and market barriers”
- ❖ • The Commission shall revise the Directive no later than January 1st,2017.





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❖ The main Differences between 2002/91/EC and 2010/31/EU Directives

- ❖ The addition of energy performance certificate to all building sale and rental announcements .
- ❖ EU States shall create control systems for heating and ventilation systems or take the necessary measures for the same effect,
- ❖ All new buildings shall be “Nearly zero energy building” by December 31, 2020 (December 31, 2018 for public buildings)





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❖ The main Differences between 2002/91/EC and 2010/31/EU Directives



- ❖ To determine the minimum energy performance requirements for new buildings, building renovations, replacement or strengthening of building elements,
- ❖ EU States shall prepare a list of national financial measures to improve the energy efficiency of buildings,
- ❖ For buildings larger than 250 m², energy performance certificate shall be visible.





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Thank you for your attention !



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