

"The way forward for the Eurocodes implementation in the Balkans"

10-11 October 2018, Tirana

Country report: Montenegro

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(Standardization Leading Engineer)**

STATE OF MONTENEGRO

SOME BASIC DATA



- State territory surface ~ 14.000 km²
- Number of citizens ~ 620.000

INDICATORS / YEARS	2012	2013	2014	2015	2016	2017
Part of Construction industry in GDP (%)	4.6	3,7	3,4	3,8	5,6	-
Number of employees in the Construction industry (%)	5.0	4,9	5,2	5,3	5,7	-
The value of construction works (millions of EUR)	258	262	352	362	454	651



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Responsible institutions



- **Ministry of Sustainable Development and Tourism** - responsible for regulations in sectors: spatial development, construction and urban planning
- **Institute for Standardization of Montenegro (ISME)** - adoption of standards and related documents
- **Institute of Hydro-meteorology and Seismology** - NDPs in EN 1991 and EN 1998
- **Institute of Geology** – NDPs in EN 1997
- **Faculty of Civil Engineering** – general education
- **Chamber of Engineers** – practical education of engineers



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In January 2014, the Government of Montenegro adopted:

- **Action plan for the adoption of the Eurocodes**
- **Action Plan for the Implementation of the Eurocodes**

Results of the IPA 2014 project – „Achieving highest safety and technical quality of construction“.

- **The necessary funds for implementation of the Action Plan for the adoption of the Eurocodes - EUR 1,042,790;**
- **So far, Government of Montenegro has invested approximately EUR 720,000 for the adoption of the Eurocodes.**



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Institute for Standardization of Montenegro



- In 2007, Government of Montenegro established national Institute for standardization (ISME),
- 17 Technical Committees were established,
- Aiming to transpose Directive on Construction Products (89/106/EEC) i.e. Regulation No 305/2011 into national legislation, ISME adopted all harmonized standards.



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ISME/TK 002- Eurocodes



- In July 2011, ISME established **Technical Committee TK 002: Eurocodes** to manage adoption and implementation of Eurocodes.



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Structure of TK 002- Eurocodes



President of the TC:

PhD Miloš Knežević, grad. C.E. – Faculty of Civil Engineering in Podgorica

The structure of TC is made up of representatives of the following interested parties:

- Ministry of Sustainable Development and Tourism (State Administration Authority);
- Faculty of Civil Engineering, Podgorica (Scientific-educational institution);
- Montenegrin Chamber of Engineers (State Administration Authority);
- Department of Hydrometeorology and Seismology (State Administration Authority);
- PROJECT D.O.O.NIKŠIĆ (small/medium enterprise);
- Ministry of Internal Affairs (State Administration Authority);
- PI Republic Institute for Geological Research Podgorica (Public institution);
- TECH LIVE DOO Podgorica (Distributor).



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ISME/TK 002- Eurocodes



So far, it was adopted and translated into Montenegrin 26 parts of Eurocodes and developed national annexes for them with appropriate NDPs:

- MEST EN 1990:2013; MEST EN 1990:2013/NA:2013
- MEST EN 1998-1:2015; MEST EN 1998-1:2015/NA:2015
- MEST EN 1991-1-4:2016; MEST EN 1991-1-4:2016/NA:2016
- MEST EN 1991-1-1:2017; MEST EN 1991-1-1:2017/NA:2017
- MEST EN 1991-1-3:2017; MEST EN 1991-1-3:2017/NA:2017
- MEST EN 1991-1-5:2017; MEST EN 1991-1-5:2017/NA:2017
- MEST EN 1992-1-1:2017; MEST EN 1992-1-1:2017/NA:2017



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- MEST EN 1996-1-1:2017; MEST EN 1996-1-1:2017/NA:2017
- MEST EN 1996-3:2017; MEST EN 1996-3:2017/NA:2017
- MEST EN 1997-1:2017; MEST EN 1997-1:2017/NA:2017
- MEST EN 1998-3:2017; MEST EN 1998-3:2017/NA:2017
- MEST EN 1991-1-2:2018; MEST EN 1991-1-2:2018/NA:2018
- MEST EN 1991-1-6:2018; MEST EN 1991-1-6:2018/NA:2018
- MEST EN 1991-1-7:2018; MEST EN 1991-1-7:2018/NA:2018
- MEST EN 1991-2:2018; MEST EN 1991-2:2018/NA:2018
- MEST EN 1992-1-2:2018; MEST EN 1992-1-2:2018/NA:2018
- MEST EN 1992-2:2018; MEST EN 1992-2:2018/NA:2018



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- MEST EN 1993-1-1:2018; MEST EN 1993-1-1:2018/NA:2018
- MEST EN 1993-1-10:2018; MEST EN 1993-1-10:2018/NA:2018
- MEST EN 1993-1-2:2018; MEST EN 1993-1-2:2018/NA:2018
- MEST EN 1993-1-8:2018; MEST EN 1993-1-8:2018/NA:2018
- MEST EN 1993-1-9:2018; MEST EN 1993-1-9:2018/NA:2018
- MEST EN 1995-1-1:2018; MEST EN 1995-1-1:2018/NA:2018
- MEST EN 1996-1-2:2018; MEST EN 1996-1-2:2018/NA:2018
- MEST EN 1996-2:2018; MEST EN 1996-2:2018/NA:2018
- MEST EN 1997-2:2018; MEST EN 1997-2:2018/NA:2018



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ISME/TK 002- Eurocodes



- There are 4 parts in the drafting phase such as:
 - rnMEST EN 1993-2;
 - rnMEST EN 1994-1-1;
 - rnMEST EN 1994-1-2;
 - rnMEST EN 1998-2;
- Releasing these documents for Public Enquiry process is expected in the midst of October 2018.
- ISME is planning to adopt all remaining parts of Eurocodes by the end of 2019.





Existing relevant national regulations

- **Law on Spatial Planning and Construction of Structures (2017)**
- **Law on Construction Products, transposed contents of EU Regulation no. 305/2011**
- **Regulations for Building Structures**



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Ministry of Sustainable Development and Tourism



➤ Regulations for Building Structures

- Rulebook on Technical Requirements for Concrete Structures
- Rulebook on Technical Requirements for Masonry Structures
- Rulebook on Technical Requirements for Steel Structures
- Rulebook on Technical Requirements for Composite Structures
- Rulebook on Technical Requirements for Wood Structures



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Ministry of Sustainable Development and Tourism



- **Decision of the Government of Montenegro - mandatory application of the Eurocodes for the buildings construction**
- **Delayed application by the end of 2019 - until the adoption of all parts of the Eurocodes**



STATE OF MONTENEGRO

Implementation of the Eurocodes



- Education on all levels in Eurocodes implementation, especially for civil engineers, as well as for the students of Faculty of Civil Engineering,
 - Faculty of Civil Engineering – general education
 - Chamber of Engineers – practical education of engineers,
- Completed the information campaigns and training of experts (government administration and construction companies),
- Continuous information on the degree of completion of the Action Plan for the adoption of the Eurocodes.



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Thank you for your attention!

Stay in touch



<http://eurocodes.jrc.ec.europa.eu/>