INTRO

The 4th European Standardization Summit will take place on 4 June 2015 in the National Library of Latvia in Riga and is part of the official programme of the Latvian Presidency of the Council of the European Union. How standardization can contribute to a cleaner and smarter economy in Europe is the theme for 2015. The Summit will focus primarily on the construction sector, which represents a major part of the European single market and is especially important for the Latvian economy.

While the economic recovery of Europe is still underway, the issue of competitiveness remains at the core of EU policies. Calling for a smarter and cleaner economy, the EU strives to promote growth, create jobs, foster competitiveness and secure Europe’s position in the global market.

The construction sector accounts for more than 10% of Europe’s economic output. It mostly consists of SMEs (small and medium-sized enterprises) and provides almost 30% of industrial employment. Construction also has a key role to play in ensuring that every citizen can have a good quality of life. This puts the spotlight on the construction sector as having a vital importance for the European economy and society.

The goal of a “smarter and cleaner” economy in the construction sector translates into improving the energy performance of buildings, integrating sustainability into architecture, developing smart cities, linking science and standardization and advancing the design and management of buildings. The Summit’s parallel sessions will build around these critical topics and the plenary session will consider the current state of play in the construction sector, present ongoing and future standardization developments, and outline priorities for action.

PROGRAMME

12:00 – 14:00 Lunch, registration

OPENING OF THE SUMMIT

Facilitator: Mrs Karin Helmstaedt, Journalist, Presenter and Moderator

14:05 – 14:15 Opening statement by Dana Reizniece-Ozola, Minister of Economic Affairs, Latvia
14:15 – 14:25 Opening remark by Elżbieta Bienkowska, Commissioner of Internal Market, Industry, Entrepreneurship and SMEs (TBC)
14:25 – 14:35 Opening remark by Vicky Ford, Chair of Committee on the Internal Market and Consumer Protection, European Parliament
14:35 – 14:45 Opening remark by Tore Trondvold, Chair of the Joint Presidents’ Group of CEN, CENELEC and ETSI

- Set the scene of the 4th Standardization Summit
- How European Standardization Organizations contribute to reach goals such as...
INTRODUCTORY SESSION

14:45 – 15:00  European Commission (TBC)

15:00 – 15:15  Standards for a smarter and cleaner Europe
Guðrún Rögnvaldardóttir, Vice-President Technical CEN
- Value of standards delivered today
- Standardization requests
- Intro to parallel sessions

15:15 – 15:30  Going smart and clean - A business opportunity
Christophe Sykes, Director General Construction Products Europe
- Standards driving business to a cleaner Economy

15:30 – 15:45  Science supporting construction
Stephan Lechner, Director, Institute for the Protection and Security of the Citizen, Joint Research Centre
- The JRC and the landscape of the European research infrastructures
- Bridging the gap between research and standardization
- Stimulating innovation

15:45 – 16:00  Coffee break

BREAKOUT SESSIONS
(16:00-17:30)

Session 1 – Energy performance of buildings
Session 2 – Sustainable buildings
Session 3 – Building Smart Cities
Session 4 – Building design and management

Session 1 – Energy performance of buildings
INTRO: Making better and more rational use of energy is essential for the sustainable development of our society. Energy efficiency becomes a key component of economic transformation in “post-crisis” Europe.

The EU2020 strategy sets the course for Europe by focusing on three main priorities; smart, sustainable and inclusive growth. Meanwhile, the Resource efficiency roadmap (COM (2011)571) points out that existing policies on buildings, mainly linked to energy efficiency, need to be complemented with policies for resource efficiency.

The EU aims for 20% cut in Europe’s annual primary energy consumption by 2020 and 27% by 2030. Buildings are one of the areas where the energy savings potential is one of the greatest. Introducing smart meters and better product labelling can help citizens to manage their energy use better.

Standardization can contribute to this objective by promoting best practices and providing organizations with the tools to take decisions and design sound policies, optimize installations and systems and improve energy
efficiency. It can reduce costs to businesses by removing barriers and foster investments by sustaining market demand for efficient energy projects.

Standardization can also contribute to better energy management by supporting the spread of best practices and providing energy users with the necessary tools to analyse and adapt their energy consumption patterns. New standards have been developed in relation to energy management systems, energy service companies or energy audits of buildings, and processes, and a new standard in relation to the qualification of energy auditors is under way.

Chairman: Wim De Kesel, Vice-President Policy CENELEC

16:00 – 16:15 Intro by Laurent Deleersnyder, Energy Efficiency, DG Energy, European Commission, Dir C — Renewables, Research and Innovation, Energy Efficiency

16:15 – 16:30 All new buildings are to be nearly zero-energy by 2020
Jaap Hogeling, Building Services Research Institute, the Netherlands; Chair CEN TC 371 Program Committee on Energy Performance of Buildings (EPB), Chair of JWG of ISO TC 163&205 Advisory Group on Coordination of ISO and CEN Work on EPB

Experts in the construction sector are developing European Standards to provide a methodology to calculate the integrated energy performance of buildings and promote the energy efficiency of buildings. This will enable the EU countries to set minimum energy performance requirements for buildings as well as to achieve the EU nearly zero-energy buildings.


16:30 – 16:45 From home and building electronic systems (HBES) to Smart House
Joost Demarest, Convenor of CENELEC/TC 205 ‘Home and Building Electronic Systems’ - WG16 ‘Standards for intelligent home and building/smart houses’

The work in TC 205 initially concentrated on an information bus for the home but has since been extended to the so-called "Smart House" i.e. all integrated information exchange within the residential environment and its interface to intelligent networks.

16:45 – 17:00 Developing accurate and realistic harmonized methodologies towards Zero-Energy Buildings’
Chris Spiliotopoulos, Policy Officer Standardisation - Ecodesign and Energy Performance of Buildings, European Environmental Citizens’ Organisation for Standardisation (ECOS)

Accurate and realistic harmonized methodologies are urgently needed to support the proper implementation of the recast Energy Performance of Buildings Directive (EPBD), and contribute to deliver on the Union energy saving targets. How far are these benefits being captured by the EPBD and what improvements could be made to the assessment methodologies to stimulate a higher grasp of the desired.

17:00 – 17:30 Discussion

Recommended for:
National and local authorities, policy makers, regulators, building designers, architects, engineers, software developers, manufacturers, investors, owners, consumers
Session 2 – Sustainable buildings

INTRO: Sustainability is a key factor in the current design of buildings and construction works. The construction and use of buildings in the EU account for about half of all our extracted materials and energy consumption and about a third of our water consumption.

There is an urgent need to improve the overall resource efficiency in order to reduce the impact. There are resource efficiency opportunities in the building sector, which also improve the competitiveness in the sector. The EC communication (COM(2014)445 final) emphasises the need for better project planning which ensures a greater use of resource and energy efficiency as well as promoting better design and to consider scenarios for deconstruction.

Chairman: Javier Garcia, Board Member of CEN, Standards Director AENOR, Spanish Association for Standardization and Certification

16:00 – 16:10
Dangerous substances and sustainable use of natural resources under the legal framework of Regulation (EU) 305/2011
Tapani Mikkeli, Head of Sector - Co-ordination of the construction sector and legislation- Unit DG GROW - Unit G-1 Sustainable Industrial Policy and Construction, European Commission

16:10 – 16:20
Uģis Grīnbergs, Board Member of JSC UPB

16:20– 16:30
Sustainable assessment of buildings – The life cycle approach
Ari Ilomäki, Chairman of CEN/TC 350 ‘Sustainability of construction works’ - Sustainability assessment of building and construction works: implementing Environmental Product Declarations in product standards

To assess the sustainability of buildings a life cycle approach is vital. The European Standards developed by CEN Technical Committee 350 provide such system and list common indicators that can be used by National authorities when assessing their buildings and construction works.

16:30 – 16:40
Environmental Product Declarations – Developing product life cycles scenarios for construction products
John Park, WG 1 Convenor of CEN/TC 175 ‘Round and sawn timber’ Product category rules for wood and wood-based products for use in Construction (EN 16485): Implementation of EN 15804 in CEN/TC 175

Reduce the environmental impact of buildings and use of resource and energy efficient products are key opportunities in the building sector. For sales and marketing purposes, environmental product declarations offer basic data on environmental properties of a construction product.

To support the future implementation of basic requirements for construction works as defined in the Construction Products Regulation (EU 305/2011) under ‘Sustainable use of resources’, several technical committees have started the development of product category rules for construction products, which will enable the provision of Environmental Product Declarations.

16:40 – 16:50
Environmental Product Declarations – effective tool to demonstrate sustainability and ecological benefits of wood based panels industry
Dina Melgalve, Standardisation and Certification Expert of JSC Latvijas Finieris, Member of CEN TC 112 Wood based panels WG 2 Plywood and WG13 Mandate

16:50 – 17:30
Discussion
**Session 3 – Building Smart Cities**

**INTRO:** Standards have a key role to play in the development and construction of smart cities, by working with cities and their partners to find common solutions and supporting a world where everyone and everything work together.

Today the city is facing a number of important urban challenges like air pollution, carbon emissions, energy usage, increasing congestion, security, social care, ageing population, etc.

Information capture across the city, combined with data analysis at city level, allows resources to be monitored and controlled in real time. This includes applied innovation, better planning, higher energy efficiency, better transport solutions and intelligent use of Information and Communication Technologies.

Success of smart cities depends on creating a common understanding and a more participatory approach. Goals need to be shared between all stakeholders, inside and outside the city boundary: city authority; public and private sector delivery partners; national service providers and commissioning authorities; businesses, residents of the city and the surrounding area.

A landscape of different type of standards for smart cities is needed to allow the development of replicable solutions; increase confidence in procurement, infrastructure and services; provide good practice and guidelines for city leaders, process management and a high level framework for developing smart cities.

*Chairman: Scott Steedman,* Vice-President Policy CEN; Director Standards, British Standards Institution

16:00 – 16:10

*Riga Municipal Agency, Riga Energy Agency,*

*Inete Ielīte,* Management Board Member

The Covenant of Mayors is the mainstream European movement involving local and regional authorities, voluntarily committing to increasing energy efficiency and use of renewable energy sources on their territories. By their commitment, Covenant signatories aim to meet and exceed the European Union 20% CO2 reduction objective by 2020.

16:10 – 16:20

*Smart and Sustainable Cities and Communities Coordination Group of CEN, CENELEC and ETSI* *Jean Félix,* Managing Director of Syntec Ingénierie, Chairman of the CEN-CENELEC-ETSI Coordination Group ‘Smart and Sustainable Cities and Communities’ (SSCC-CG); Vice-President European Federation of Engineering Consultancy Associations (EFCA), Chair of the EFCA-FIDIC Sustainable Development Committee, Chair of CEN/TC 395 – Engineering Services, Liaison Officer in ISO/TC 268 - Sustainable development in communities

16:20 – 16:30

*ETSI (TBC)*

16:30 – 16:40

*Key role of standards in the development of smart cities – the UK experiences* *Dan Palmer,* Head of Market Development, British Standards Institution

16:40 – 16:50

*Riga Municipal Agency, Riga Energy Agency,*

*Timurs Safiuļins,* Director
Recommended for:
Governments, city mayors, city planners, engineers, research institutes, universities, investors

Session 4 – Building design and management

INTRO: Today construction clients and users receive often-poor operating information at handover of the built assets. Current practices lead to duplication of activities as well as increases in costs and timescales for delivery of construction projects. The management of these asset portfolios needs to improve.

The introduction of the building information modelling (BIM) provides a solution and includes the management of the information during the design, construction and operational phases of the asset lifecycle. The top three economic players (Germany, France, and the UK) in Europe are in the process of launching BIM strategies.

Using BIM, a ‘virtual’ building can be constructed to analyse the feasibility of a project, which helps to design structures that reduce waste and optimize energy use.

Chairman: Ruggero Lensi, Board Member CEN, Director External Relations, New Business and Innovation, Italian Institute for Standardization, UNI

16:00 – 16:15 Building Information Modelling (BIM)
Souheil Soubra, Member of the CEN/BT Working Group 215 on BIM; Chief of the Department Modélisation Physique et Environnements Virtuels Enrichis (MOD-EVE) of CSTB

The development of BIM is advancing rapidly and requires the application of common standards to ensure future compatibility of data exchange and use.

Moreover, the recent EU Public Procurement Directive 2014/24/EU states that for public works contracts and design contests, Member States may require the use of specific electronic tools, such as building information, electronic modelling tools or similar.

16:15 – 16:30 Towards a second generation of European Standards on Eurocodes
Michael Fardis, Vice-chair of CEN/TC 250; Professor and Director of Structures Laboratory, Civil Engineering Department, University of Patras, Greece; Honorary President of the International Federation for Structural Concrete

Structural eurocodes - referred to as ‘Eurocodes’ - are common structural building and civil engineering structures. These provide rules for basis of design, actions on structures as well as structural design rules for the use of all major construction materials such as concrete, steel, timber, masonry and aluminium.

The impact of Eurocodes for construction works and structural construction products is considerable and affect the day-to-day work of around 500 000 professional engineers across Europe. Moreover, these Eurocodes contribute towards an improved competitiveness of the European construction industry. Examples of countries that have adopted Eurocodes are Singapore, Ethiopia, South Africa and Bosnia-Herzegovina amongst many others.

The full set of Eurocodes is being revised and reflects the state of the art and the needs of the market, particularly in relation to improving ease-of-use for the users of the standards.

Commission Recommendation (2003/887/EC), on the implementation and use of the Eurocodes for
construction works and structural construction products, recommends that Member States adopt the Eurocodes as a suitable tool for designing construction works. In addition, the application of the Eurocodes in the EU Member States supports the EU Public Procurement Directive 2014/24/EU. Thus, they contribute towards creating conditions for extended competition for public contracts.

16:30 – 16:45 Contribution of Small Business Standards (SBS) to future work of CEN TC 442 on BIM, SBS (TBC)

16:45 – 17:00 Pēteris Druķis, Director of State Building Control Office, Latvia

17:00 – 17:30 Discussion

Recommended for:
National and local authorities, building designers, manufacturers, contractors, facility managers, engineers, software developers, building surveyors

CLOSING PLENARY SESSION

17:30 – 18:10 Closing panel
Feedback from the breakout sessions

18:10 – 18:30 Closing remarks
Friedrich Smaxwil, CEN President

19:30 - 22:00 Gala dinner, The Latvian Railway History Museum
Uzvaras bulvāris 2A, Rīga, Latvia