Meeting the needs for green skills in the construction sector

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The EU 20-20-20 targets by 2020

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Are we getting there?

* Gross inland consumption minus non-energy uses
Source: Primes

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Energy 2020 - European Strategy for Energy

- Published in November 2010 as a strategy for a competitive, safe and sustainable energy
- Energy efficiency is priority number 1
- Key messages for buildings:
  - Focus on two sectors with biggest savings potential; transport and buildings;
  - Assistance for property owners and local governments for promoting energy savings measures;
  - Public sector to include energy efficiency as a parameter when buying services, products, etc.

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Why this focus on buildings?

- Buildings are responsible for:
  - ~40% of EU-Energy use
  - ~36% CO2-emissions
  - 9% of EU 27 GDP
  - 8% of EU-workforce
- Basic European framework: Directive on the energy performance of buildings (EPBD)

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EPBD: legislation for energy efficiency in buildings

- Key elements of Directive 2002/91/EC:
  - A methodology to calculate and rate the energy performance
  - Minimum energy performance requirements for new and existing buildings that undergo major renovation
  - Energy performance certificates
  - Regular inspections of heating and air conditioning systems

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The Directive makes energy efficiency visible

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Key elements of the recast Directive

- Based on the same principles as Directive 2002/91/EC:
  - » General framework (principle of subsidiarity)
  - » Minimum energy requirements
  - » Energy Performance Certificates (EPC)
  - » Inspection of the efficiency of heating and cooling
  - » Independent experts for certification
  - » Exemplary role of public sector

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Key elements of the recast Directive

- But includes a number of new elements:
  - Introduction of "nearly zero energy buildings“
  - Methodology for calculating the cost-optimal level
  - Voluntary certification scheme for non-residential buildings
  - Extension of minimum requirements to all buildings
  - Strengthening Energy Performance Certificates (EPC) by:
    - Independent control system for EPCs
    - Publication of the EPCs in all commercial announcements
    - Extension of display (>500m2, 2015>250m2)

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A new European Energy Efficiency Plan

- Adopted on 8 March 2011, (COM 2011 (109) final),
- Provides strategic framework for Energy Efficiency policy in Europe up to 2020 and beyond
- In going beyond the requirements of the EPBD recast it underlines:
  - Need for more stringent EE criteria in public spending in buildings
  - Suggests 3 % (of floor area) annual refurbishment target for public bodies buildings = doubling of current rate in EU!
  - Announces new legislative initiative on energy performance contracting (including contracting in buildings sector) for 2011
- Highlights need for **training of the workforce**

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New Energy Efficiency Directive (EED)

- Adopted on 22 June 2011, (COM 2011 (370) final)
- Will replace ESD and CHP Directives
- Currently in Council and EP
- The COM proposal has no chapter on buildings, but proposes on top of the EPBD recast:
  - 3 % annual refurbishment target for buildings owned by public bodies
  - more systemic use of energy performance contracting
  - Obligation for individual energy meters reflecting actual energy consumption & information on actual time of use
  - National energy efficiency obligation scheme for utilities

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Financial support measures at EU level

- ERDF: since 2009 for EE/RES in retrofitting, since 2010 new financial instruments (JESSICA);
- ELENA: since 2009 grant for technical assistance for EE/RES on regional and local level;
- EEE-F: New European Energy Efficiency Facility: ~200 Mio.€ in cooperation with EIB for technical assistance, investment facilitation, contracting;
- Cohesion and Structural funds

- Analysis of the appropriateness of EU funding for the EPBD as requested by the EPBD

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The need for skills

- EPBD recast, EED and RES Directive all require a step change in the ability of the building sector to deliver the new generation of buildings
- Build UP Skills is crucial to fill one of the most important gaps of the sector, i.e. the shortage of craftsmen and other on-site workers with adequate skills in the energy efficiency and renewables fields
- Today, about 1.1 million qualified workers are available, while it is estimated that 2.5 million will be needed by 2015 (mainly for low or intermediate skilled workers)
- € 33.7 billion by 2020: costs of unskilled buildings workforce

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Build UP Skills

- Hence the initiative focuses on **continuing or further education and training of craftsmen, other on-site construction workers and systems installers in buildings (the so called *blue collars*)**
- As such BUILD UP SKILLS will also contribute to the objectives of the two flagship initiatives of the Commission's '**Europe 2020' strategy - 'Resource-efficient Europe'** and '**An Agenda for new skills and jobs'**

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Build UP Skills

- Preparatory phase in 2010, with involvement of EC services (DG ENER, EACI, DG EMPL, EAC) and consultation with stakeholders
- "Pillar 1" funding has been made available under the IEE Call for proposals 2011 to set up national qualification platforms and roadmaps to 2020
- 21 national projects approved!

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Build UP Skills

- IEE Call for proposals 2012
  - “Pillar 1”bringing the missing Member States on board
  - “Pillar 2” to focus on implementing the roadmaps
- More work is needed but we have made an excellent start!

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Thank you for your attention

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