

REPowerEU: Opportunities for Regions in Transition

Just Transition Platform Meeting: Coal Regions in Transition virtual week and Carbon-intensive regions seminars

12 May 2022





REPowerEU: Skills for Opportunities in Regions in Transition

5th Just Transition Platform Meeting

Dr. Veronika Czako 12/05/2022



Overview

REPowerEU – citizen roles

Green transition - Human resource challenges

Critical professions across clean energy sectors

Fit-for-future skill sets

Adult learning

EU skills response

Buildings sector (challenges, trends, responses)









REPowerEU: Joint European action for more affordable, secure and sustainable energy





Green transition - Human resource challenges



- Enough people
- With the right skills sets
- At the right places



Labour supply from declining sectors

Labour shortages in clean energy sectors

Parallel digital transition

Upskilling

Reskilling

Transferable skills

Labour mobility



Critical professions, skills bottlenecks

Science, Technology, Engineering and Mathematics – STEM fields

Engineers – electrical, environmental, mechanical, chemical, structural Electricians

Software developers Surveyors Machinery operators





Fit-for-future skill sets in the digital-green twin transition

Future oriented foundation skills

cognitive

digital

interpersonal

self-leadership

Green

economy skills

technical

engineering

scientific

managerial

Sector example:

Electricity – Internet

of Things (IoT),

Automation and AI,

smart-grid knowledge,

cyber security,

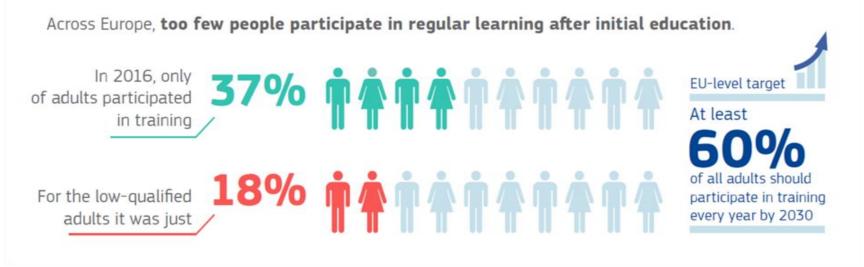
costumer journey,

automation and

controlling

Sustainability competencies





Factsheet - Individual learning accounts and micro credentials (2021)

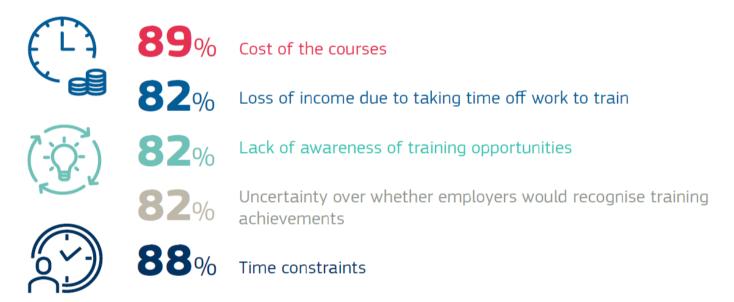
Country-specific traditions and starting points in

- adult learning
- digital access
- digital literacy

implications for regions in transition



What did people surveyed say were the main barriers to adult learning?



Factsheet - Individual learning accounts and micro credentials (2021)



Skills response

- European Skills Agenda 2020 12 actions
 - Action 1: Pact for Skills shared engagement models, industrial ecosystems
- Digital Education Action Plan
- Blueprint for sectoral cooperation on skills construction, automotive, batteries for electromobility, energy-value chain- digitalisation, energy-intensive industries
- CEDEFOP Skills intelligence
- European Classification of Occupations, Skills, and Competences (ESCO)





Buildings sector – Labour market challenges

- Structural fragmentation, domination of SMEs
- Lack of financial and human capacity to train employees
- Temporary employment models
- Limited incentives for long-term workforce investment
- Negative image of the sector
- Suboptimal VET quality
- Challenges in official recognition of skills between EU member states





Changing landscape for building professionals

Life-cycle approach

Digital construction (BIM, AR/VR, 3D laser scanning)

Industrialisation

Smart buildings

Focus on the occupant

LIFE 2021- Build Up Skills



Skills Blueprint for Construction

- Create a new generation of digitally aware, multi-skilled workers
- New training curricula and online courses
- Report on professions and qualifications in need of modernization





BUILD UP Skills – Target areas and actions On-site training

Specific tools (BIM)

Building types (heritage buildings)

Professions (HVAC professionals)

Professional groups (architects, engineers, middle and senior level construction professionals, craftsmen, construction industry workforce along the entire value chain)

JRC Report: Skills for the clean energy transition (2022 upcoming)

Training and certification programmes

E-learning platforms

Competence databases

Knowledge centres

Skills registers

Skill advisor apps

Free and easily accessible training materials

Funding of training facilities

Train-the-trainer schemes



Thank you!



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Panel discussion

- Gaspard Demur, Team Leader (DG ENER), European Commission (DG ENER)
- Veronika Czako, Socio-Economic Analyst, European Commission Joint Research Centre
- Jeppe Jensen, Project Coordinator, Energy Poverty Advisory Hub
- Louise Sunderland, Senior Advisor, The Regulatory Assistance Project

Thank you

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