CLIMACT Empowering you to act on climate change

Implications of the climate transition on employment, skills, and training in Belgium

Presentation of the final report – 5/6/2023 Quentin Jossen - CLIMACT





What are the **implications** and the **requirements**

of the transition to a climate neutral Belgium

in terms of **jobs**, skills, and training?



Which **policies** should be implemented to ensure that these requirements be met

and to leave no one behind?



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This study feeds the "2050 initiative" and the "just transition" framework



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Phases of the project and methodology



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A series of (bigger) other projects deepen the analysis of this study



Implications and requirements of the transition to a climate neutral Belgium



The three cases highlight the need (1) to reskill/upskill existing workers through life-long learning programs

(2) to adapt training and education curricula so that the right skills are taught.

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Policy considerations to ensure that these requirements are met and to leave no one behind



As a **next step** to this study, co-construction of a joint action with all relevant stakeholders should be the focus to move from a report with a list of considerations to concrete and fast actions

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Ongoing megatrends interplay with the climate transition Labour needs and impacts of the climate transition Learnings from 3 deep dives Guiding the required policy and regulatory improvements Towards a joint and concrete action plan?

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Megatrends provide opportunities and risks for the labour market needs of the climate transition



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- Ex 1 : **increase in life-long learning** which will be key to upskill and reskill workers for the climate transition.
- Ex 2 : immigration could be an important source of skills and knowledges to be mobilised which could somewhat counterbalance several job shortages in Belgium



- Ex 3: **population ageing** : older workers are generally harder to upskill/reskill and less economically mobile
- Ex 4: digitalization : digital divide, uberization, loss of middle-skill jobs

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Goals and opportunities of the climate transition are only possible with strong job/skills/training policy enforcements, joint action and cooperation



The climate transition is expected to lead to small net job gains in Belgium



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Eurofound (2019), European Commission (2020)

SOURCE: Eurofound (2019)

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Job impacts are unevenly distributed among Belgian sectors





Directly and indirectly impacted sectors represent about half of the jobs





With appropriate support, skills may be transferable from carbon-intensive to low-carbon activities



Source: adapted from Popp et al. (2021)

- Similar skillset between brown occupations and green occupations that are not related to wind or solar energy (defined as "green 'other' occupations")
- **Transferability depends** on the sector, workers' prior experiences and reconversion support.



- Ensure availability and affordability of reskilling trainings
- For each reconversion opportunity, analyse the transferable knowledge and skills and the retraining needs

For each reconversion opportunity, analyse the transferable knowledge and skills and the retraining needs

Selection of examples of reconversion programs through reskilling:

	Initial occupation	Core Training = assets transferable knowledge and skills	Retraining	New occupation
Denmark	Industry electrician / energy technologist	Vocational education and training (VET) qualifications / tertiary engineering qualifications	Knowledge of energy sources, ability to integrate energy systems, project management	Manager in renewable energy
Estonia	Construction worker	No professional standard	Knowledge of energy systems, data analysis, project management	Energy auditor
France	Product design and services	22 initial training courses with varying specialisation	Integrating environmental	Eco-designer
United Kingdom	Commodity trader / broker	Tertiary qualification	Practical skills on functioning of carbon market, understanding of trading tools	Carbon trader / broker

Source: Cedefop (2010). From OECD Green Growth Papers (2019)

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All skills level may benefit from the transition, with different temporalities



Initially high-skilled labour may benefit more than lower-skilled labour In the mid-term (2030), much of the employment creation is expected at the **bottom and middle skills & wage levels** In the long term (2050), **higher skills** may also be favoured

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Ongoing megatrends interplay with the climate transition Labour needs and impacts of the climate transition

Learnings from 3 deep dives

• Digitalization

Circular economy

Climate renovation of buildings needs a strong upskilling strategy

Guiding the required policy and regulatory improvements

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Expected potential and consequences of digitalization was analysed in two areas related to the climate transition

New work practices due to digitalization

- Hybrid work arrangements (home, headquarters and hubs), generate an in-depth transformation of the ways of working
- **Risk : new digital divides** due to hybridization (blue/white collars, employed/unemployed, urban space/countryside)
- Need appropriate social policies and land use planning

Digitalization in the transport and logistics sector

- TODAY : low level of digitalization and workforce shortage
- Need of more R&D on IT-based solutions likely to improve data quality and inter-modality
- Few job creations and mainly job transformations

Few quantitative impacts of digitalization in the transport and logistics sector, but qualitative effects on the ways of working

Job creation

 MAAS (Mobility As A Service) actors and LAAS (Logistics As A Service) actors



- Integration of different modes of transport through multimodal digital infrastructures
- New combination of skills needed (digital/mobility & transport/soft skills)

Job transformation (standardization, simplification)

- Increased job performances and less labour intensity
- **Digitalization offers levers to increase productivity** in existing jobs, filling a part of the workforce shortages

Policy recommendations



- Support new poles of technical expertise on the integration of different modes of transport through multimodal digital infrastructures
- **Develop new curricula in partnership with field actors** (Logistic in Wallonia, sectorial funds, etc.)

Policy recommendations



- Accompany job transformations and job reconversions to avoid the emergence of new forms of taylorism
- Launch experimental initiatives to maintain decent work employment conditions

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Circular economy is an engine for GHG emission reductions and job growth

Climate

- Material-related activities stand for 2/3 of Belgium GHG emissions (manufacturing, freight transport and building activities)
- **CE could contribute up to 32%** of GHG emissions reductions by 2050

Employment

- Circular economy is regarded as an engine for economic and job growth
- Flanders : +30,000 jobs by 2030
- Shift to **more labour-intensive** sectors
- Only minor changes in skills are needed, but add up to existing shortages

Circular economy is an engine for GHG emission reductions and job growth



Evolution of the number of employees in the circular sectors (Belgium, three regions), compared to employment in the whole economy (Belgium all sectors). Source: Multani, & Bachus (2022), based on data of the Crossroads Bank for Social Security

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TRAINING: More coordination, collaboration and exchange between industry and education is needed





Ongoing megatrends interplay with the climate transition Labour needs and impacts of the climate transition

Learnings from 3 deep dives

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The Belgian construction sector is expected to be one of the most directly impacted sectors by the climate transition

Comparing the current workforce in construction and its supply chain with the required workforce for climate renovation [Belgium, 2020-2050, jobs per year]



The Belgian construction sector is expected to be one of the most directly impacted sectors by the climate transition

Comparing the current workforce in construction and its supply chain with the

- 2000 287.000 Construction 345.000 Supply chain Current construction & supply chain Current construction workforce
- More and deeper renovations, with fastened decarbonization of energy
 - **Practices to upscale** : circularity, standardization & industrialization and digitalization

VENTILATION

EAU CHAUDE

- => **Attract!**, facilitate integration of different profiles, train, support
- Peak effect on the type of needs

& supply chain jobs per year for climate renovation



Many existing construction jobs will require additional skills while simultaneously being in higher demand

Upskilling current workforce is the priority #1

- Affordable, short, and practical training
- Affordable on-site training
- Incentivizing upskilling

 e.g., with a "climate renovation" certificate
 or training subsidies modulated according to
 company size
- Combining temporary unemployment with climate renovation reskilling/upskilling training.

Quality of initial trainings of future workers

- For existing jobs: adapt existing curriculum!
- For new jobs: mainstream niche trainings and develop new ones
- Create a special trainer status for end-of-career workers, to tackle the shortage of construction trainers

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Policy action should be strengthened around 5 key objectives

Significant changes to policies and to regulations are necessary to

- (1) accompany the transformation of the labour market required for the climate transition
- (2) reach a fair distribution of the impacts of the transition across individuals and economic actors

Five key objectives:

1	
-	

Attract current and potential workers towards jobs related to the low-carbon transition

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2	

Equip Learners and educators with the knowledge and skills needed for the climate transition



Support the climate reskilling and upskilling of workers



Ensure decent working conditions for climate transition jobs



- → This study suggests 23 areas for policy actions:
 - Not limited to federal levers
 - With varying levels of maturity
- Needed next steps:
 - Connect with ongoing initiatives
 - Turn them into a **concrete** joint action plan together with a clear implementation plan

Attract current and potential workers towards jobs related to the low-carbon transition



Centralize and broadcast information on education, training, and job opportunities related to the low-carbon transition



Boost women employment in transition sectors, as women are under-represented in these sectors

Improve the integration of foreign workers to help fill shortages in transition activities



An online platform, providing descriptions of foreign vocational training systems and professional qualifications, eases the assessment and the recognition of foreign qualification





Equip learners and educators with the knowledge and skills needed for the climate transition



Add a climate change and sustainability module in <u>all educational programmes</u>, at <u>all levels</u>.



Revise educational programs and offering new ones to **ensure the skills required** for the climate transition are taught.





Support the climate reskilling and upskilling of workers



Ensure relevant reskilling and upskilling trainings are available to workers



Develop a culture of life-long learning



Ease training access, through

- **fiscal incentives** pinpointed to training initiatives for companies (especially SMEs)
- centralizing on a single platform information on training opportunities and financial support

One-year training in deep climate renovation coordinator

Ensure decent working conditions for climate transition jobs



Map transition jobs most at risk of inadequate working conditions



Design/reinforce policies to safeguard decent working conditions, such as controls, social inspections, and strict social criteria in public tenders



To avoid the precarization of firstline workers in cyclo-logistics, set strict social criteria for <u>eligibility to subsidies</u>, <u>public contracts</u>, <u>accessibility to certain logistics infrastructures</u> intended for sustainable distribution players

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Enhance joint action and cooperation between actors



Increase collaboration between all governmental levels to design & implement a climate transition education & training strategy

Increase collaboration between private and public entities







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Next steps

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Map all existing initiatives in BE and EU and further clarify the needs



For each reconversion opportunity, analyse the transferable knowledge and skills and the retraining needs



Co-construct a joint action plan with all relevant stakeholders to move from a report to **concrete and fast actions**, **together with a clear implementation plan**



The study is available on <u>www.climat.be</u>



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