High Council for Employment



Report 2010: Green jobs

Jan SMETS Vice-chairman

28 September 2010

Estimates of green jobs

Broad concept¹: job content approach

- More than 26 million direct green jobs worldwide (UNEP, 2008)
- 5 million direct and indirect green jobs in the EU (WWF, 2009)

Narrow concept²: activity approach

Employment in the eco-industries in the EU

(thousands FTE)

	2000 ³	20044	20064	20084
Direct employment	2,364	2,754	3,057	3,441
p.m. direct employment in p.c. of total employment	1.3	1.5	1.6	1.7
Indirect employment	1,320	n.a.	n.a.	n.a.

Sources: Ecorys, Ecotec, Ernst & Young, GHK.

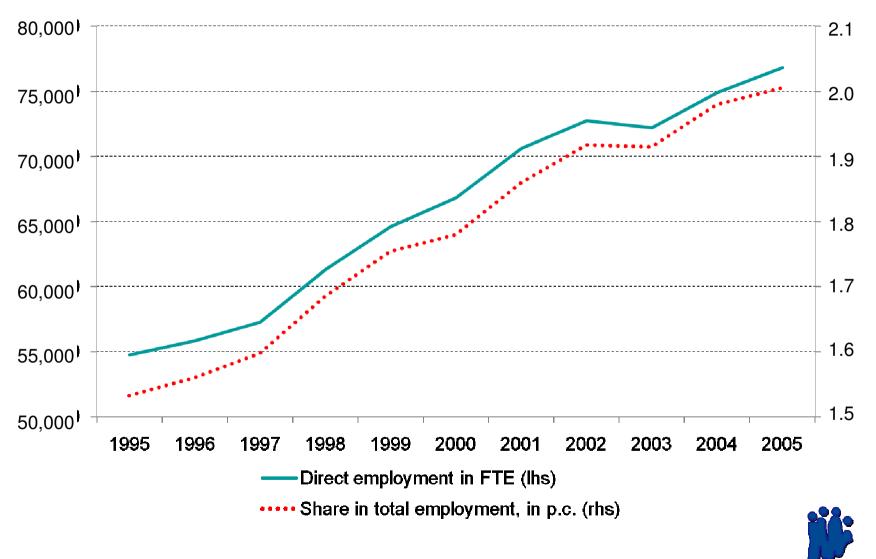
¹ Jobs that contribute to preserving or retoring environmentlal quality (UNEP, 2008).

² Jobs in eco-industries, which include activities producing goods and services to measure, prevent, limit, minimize or correct environmental damage OECD/Eurostat, 1999).
³ GHK (2007).



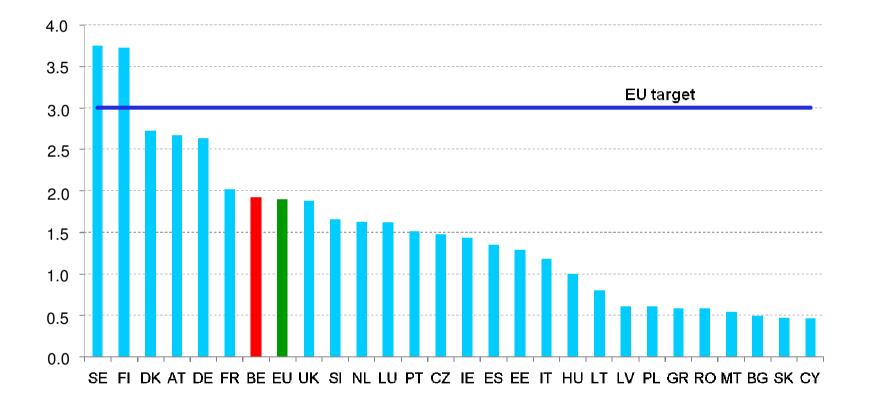
⁴ Ecorys (2009).

Employment in the Belgian environment industry



Gross domestic expenditure on R&D in 2008¹

(percentage of GDP)

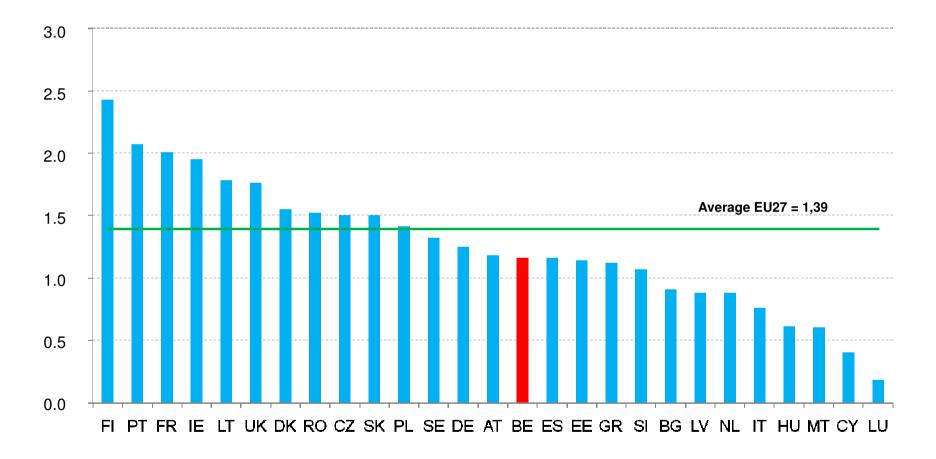


Source: EC.

2007 data for Greece.

Tertiary graduates in science and technology in 2008

(percentage of new graduates in the population aged 20 to 29)

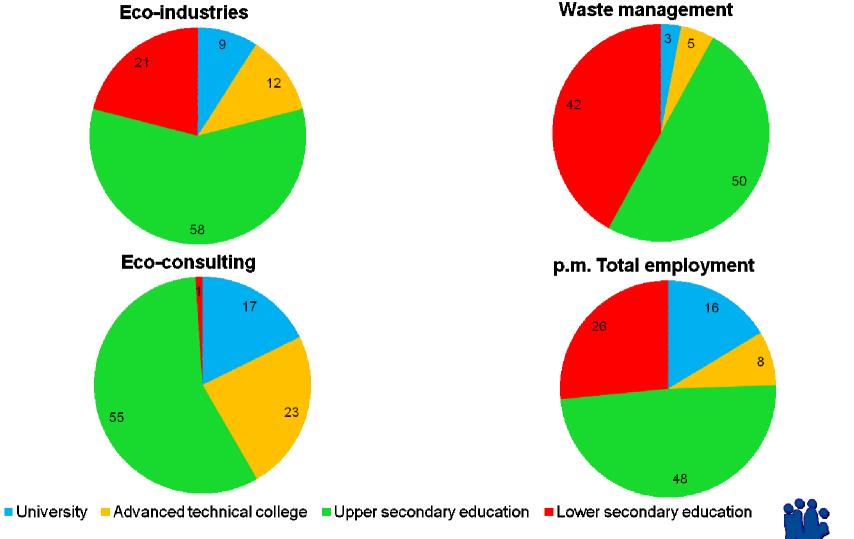




Source: EC.

Environment-related employment by educational background and sectors, on average in five EU countries¹, in 2000

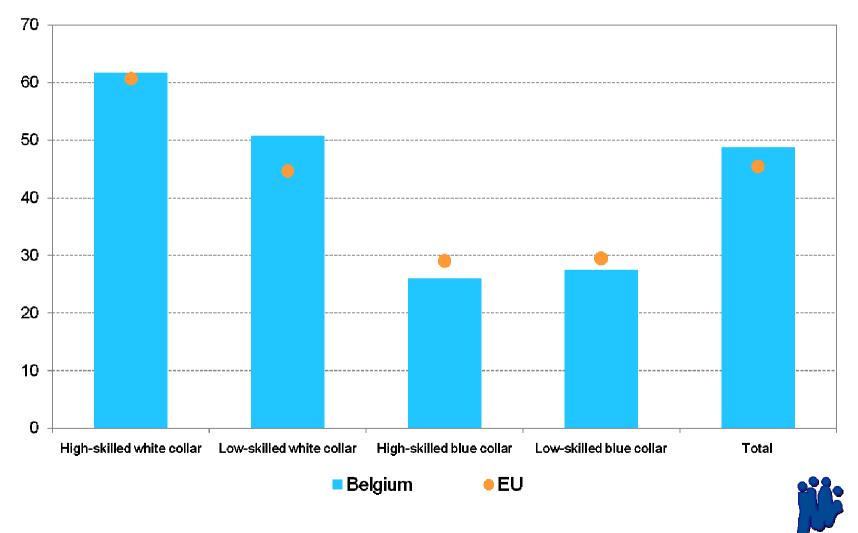
(percentages of the corresponding total)



Source: OECD, based on Institut für Wirtschaft und Umwelt. ¹ Germany, Austria, Spain, Netherlands, Sweden.

Participation rate in training by occupation in 2007

(percentage of total)



Source: EC.

Comparison between the greening of the economy and the introduction of ICT

- Similarities
- o major challenge and several opportunities for the economic activity
- impact on the professional and private spheres
- non-homogenous expansion process, with no "end point"
- impact on employment difficult to estimate
- elimination of jobs, creation of new occupations, but mostly change in the content of the job (importance of education and training)
- o teleworking
- Differences
- o reasons why these changes occur:
- ✓ ICT: spurred on by economic agents individually
- ✓ greening of the economy: under collective pressure by the international community
- increased intervention of the public authorities in the case of the greening of the economy
- o fundamental changes expected for a more limited number of activities



Recommendations

- new skills for new jobs
 - defining future labour market needs: forward-looking observatory on occupations and skills
 - initial education: promoting and adapting technical and scientific education, teaching ecology and sustainable development
 - lifelong learning: developing and certifiying "eco-training"
- easing and supporting the transition towards a green economy
- adapting labour law to ease the changes
- social support to restructuring
- improving the match between the supply and the demand of labour (Public Employment Service)
- considering the possibility of a complementary supply of skills through migration
- looking after the quality of the new green jobs



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