Skills for a green Europe

CEDEFOP *research activities on green issues*

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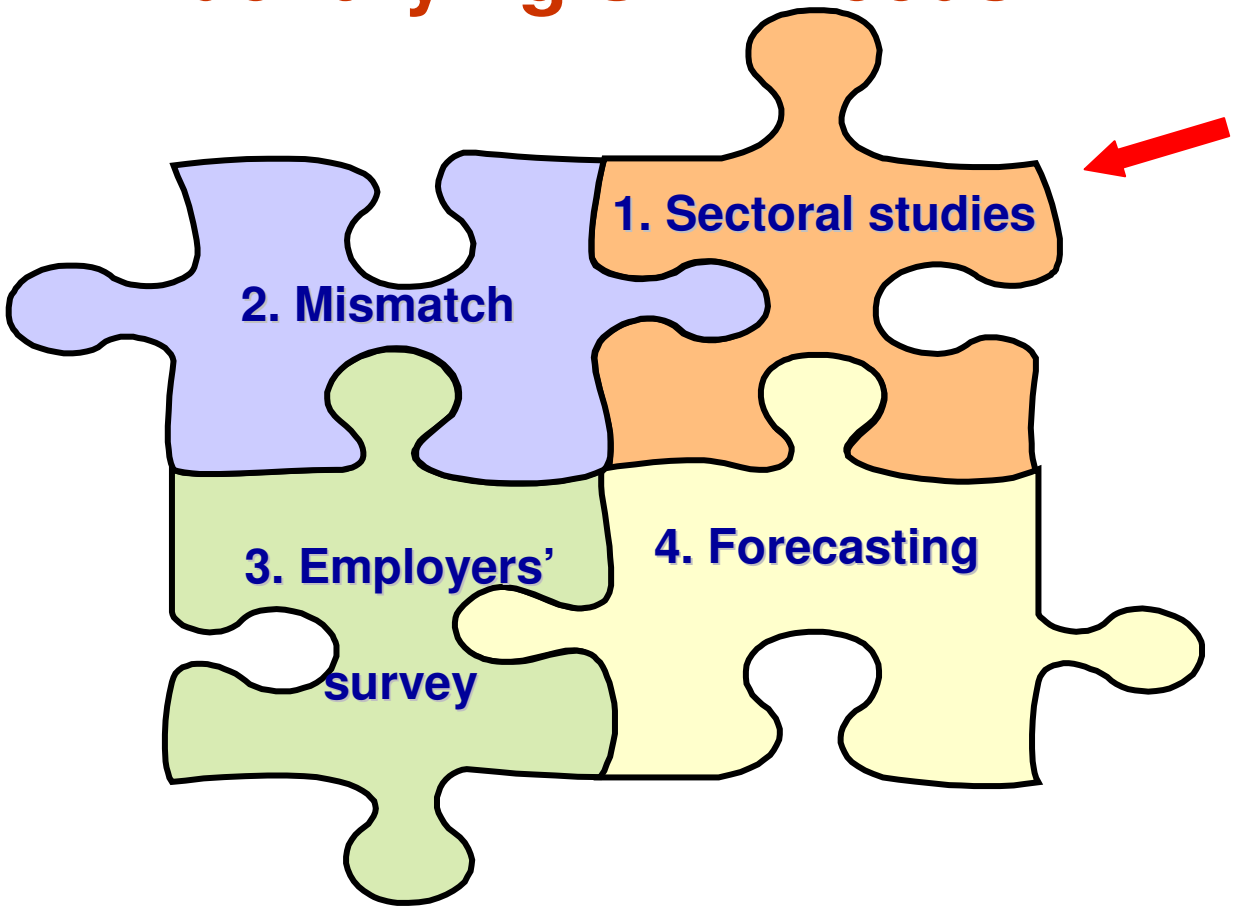
CEDEFOP AREA Research and Policy Analysis

Identifying Skill Needs



Sectoral studies - Skill needs in sectors

- Tourism (2004)
- Nanotechnologies (2005)
- Agri-food and forestry-wood chains (2006)
- Health care sector (2008)
- Future skill needs for the green economy (2009)
- **Skills for green jobs** (2010)
- **Green skills and environmental awareness in VET** (2011 – to be published in early 2012)
- ***Renewables and energy efficiency 2012*** *(just started)*

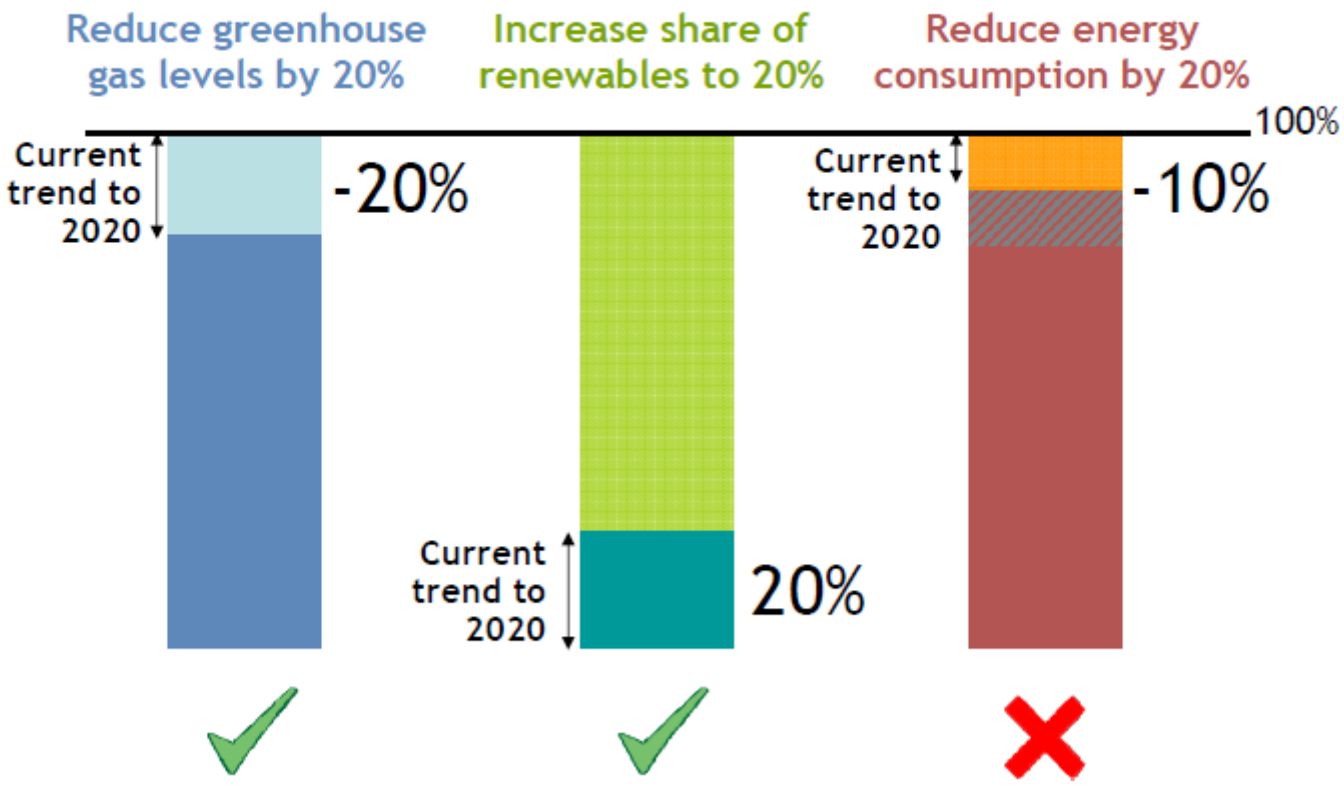
The 5 targets for the EU in 2020

1. **Employment**
   75% of the 20-64 year-olds to be employed
2. **R&D / innovation**
   3% of the EU's GDP (public and private combined) to be invested in R&D/innovation
3. **Climate change / energy**
   - **20% greenhouse gas emissions (lower than 1990)**
   + **20% of energy from renewables**
   + **20% increase in energy savings** (EFF+CONSER)
4. **Education**
   Reducing school drop-out rates below 10%
   at least 40% of 30-34–year-olds completing third level education
5. **Poverty / social exclusion**
   at least **20 million fewer people in or at risk of poverty and social exclusion**

Global climate objective:

max. + 2°C temperature

MEETING ALL THREE "20-20-20 BY 2020" GOALS BECOMES A MATTER OF URGENCY



Cedefop approach to the green economy

- The positive impacts of greening the economy can be maximised only by **developing the SKC required** by resource-efficient economy
- To explore **employment effects**, and **policy implications** of the transition towards a more sustainable economy
- Deepen our understanding of **workforce composition** and **skill needs** for sustainable growth and its implications for education and training
- Broader policy context: **coherence** and **coordination** between VET and other relevant policy areas

Potential impact of green economy/policies on skills

Green **Increased Demand** Occupations (GIDO)

- little change in content
- improving existing skills

Green **Enhanced Skills** Occupations (GESO)

- significant change in content
- enhanced training (mostly external)

Green **New and Emerging** Occupations (GNEO)

- new occupations from new technologies and/or processes
- new skills/qualification and external training

Cedefop's project on 'Skills for green jobs'

(Cedefop – ILO cooperation)

- Identify strategic skill development responses
- 20 Countries

Cedefop: Denmark, Estonia, France, Germany, Spain, the UK

ILO: Australia, Bangladesh, Brazil, **China**, Costa Rica, Egypt, Indonesia, India Republic of Korea, the Philippines, Malaysia, South Africa, Thailand, Uganda, the US

- 148 case studies

Main evidence from "Skills for green jobs"

- 'Green' stimulus packages are similar → **policy driven** growth
- **Climate change** remains at the heart of environmental concerns
- **Integrating** skills responses in environmental policy is generally weak
- Rise of 'new occupations', but effective **revision** and **upgrading** of existing workers' skills are more important
- **Generic** skills are as important as **technical** skills;
- **Industry-specific** responses tend to be the most dynamic (reactive to market needs)
- Linking up industry with education and training, at **regional/local and sectoral level**, is likely to make a positive difference
  - ➢ **Specific occupational-skill profiles to be investigated**

On going project on "Green skills in VET"

- Identify current/future demand for skills/jobs in key occupations → 9 occupations across 8 countries
- Interviews to learning providers and employers + on-line employers survey
- Any mismatch between skills needs and learning provision?
- Policy implications for learning provision, skills/VET policy and wider policy fields?

Main findings to be published in early 2012

New project "Skills for a low carbon Europe"

1 **Macroeconomic policy-driven scenarios**

2 **Sectoral employment & future skill demand**

3 Case studies (sectoral/occupational/ regional)

4 **Good practice of policies, plans or measures**

5 Links with education & VET policies

Thank you!

SKILL NEEDS IN SECTORS

http://www.cedefop.europa.eu/EN/about-cedefop/projects/identifying-skill-needs-in-sectors-and-enterprises/index.aspx

GREEN SKILLS

http://www.cedefop.europa.eu/EN/about-cedefop/projects/green-skills/index.aspx