

ENERGY TRAINING FOR BUILDERS **PORTUGAL**









EXPLORATORY MEETINGS

WORKING SESSIONS



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bringing together ====

THE PORTUGUESE STAKEHOLDERS

related to craftsmen working on the building sector and installers of energy systems including renewable energy sources

establishing

A NATIONAL PLATFORM

setting up

A NATIONAL ROADMAP

driving the training process until 2020 and beyond







ANALYSIS OF STATUS QUO NATIONAL REPORT

BUILDING SECTOR

the poor performance of the Building se in the country were:
REDUCED PRODUCTION,
WEAK CORPORATE CONSOLIDATION and LOW PRODUCTIVITY.

Significant drop in production, geared by the residential segment;

- The Portuguese Building market shows a low level of consolidation and the five largest construction firms have a market share of only 13%;
- Average productivity is significan lower than the European average



AND DEDSDECTIVES

- Retracted public and private in
- Surplus offer of building stock (housing and services);

10.5% of MIGRANT WORKERS

2020 ENERGY POLICY

NATIONAL STRATEGY ON ENERGY

includes a set of measures aimed at RE-LAUNCHING THE ECONOMY and FOSTERING EMPLOYMENT, investing in technological research and development and increasing Portugal's energy

energy savings	
Programmes	Primary energy (ktoe)
Home and office renewal	
Buildings energy certification	241
"Renewable at the time"	53
Energy efficiency in the Public	72
TOTAL	497

- EXPECTED RESULTS BY 2020

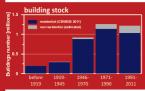
 Consolidate the cluster associated with renewable energy sources (RES) in Portugal, so as to ensure a Cross Value Added (GVA) of 3 800 million 6 and the creation of another 100 000 jobs (in addition to the sector's existing 35 000).



STATISTICS

BUILDING SECTOR

Building stock
3.5 millions residential buildings
87% of those with one dwelling
0.3-0.4 millions non-residential buildings



New buildings (2011) 5 700 licensed buildings 7 600 concluded buildings 17 000 licensed dwellings

Total licensed floor area [thousands of m²] 2 800 for non-residential buildings 4 100 for residential buildings

Annual DECREASE on licenced floor area 25% in tourism buildings 20% in commercial buildings 11% in residential buildings

BUILDINGS ENERGY EFFICIENCY

- Existing buildings have a LOW ENERGY EFFICIENCY level, compared to new buildings.
- HIGH POTENTIAL for improving energy efficiency as, in addition to traditional retrofitting, they may adopt energy efficiency improvement measures.
- Demands imposed by the thermal regulations on buildings currently in force have triggered a REMARKABLE IMPROVEMENT of energy efficiency in buildings, although other improvement measures can still be considered.

BUILDING SECTOR WORFORCE

440 000 workers 9.1% of total working force

100 850 workers related energy efficiency and RES of 42 000 companies (figures from 2009)

skills 8% supervision 3% high skilled 74% SKILLED



BUILDINGS ENERGY CONSUMPTION

for existing or recently constructed uni 400 000 Energy Certificates (EC) for design phase units 100 000 Statement of Conformity (SC) Low energy buildings (A and A+)

VET PROVISIONS

NATIONAL VET SYSTEM

Coordination National Agency for Qualification

and Professional Education

Sector Councils for Qualification

Construction and urban planning Energy and Environment Computer, electronics and teleco Metallurgy and metalworking

Training centers of

the Employment and Vocational Training Building sector: CICCOPN e CENFIC Electronic, energy and metalwork: CINEL, APIEF, CENFIM Primary and secondary public schools

Private professional schools Other certified training entities

Financing

European Social Fund Axis 1 - initial qualification (youth) Axis 2 - adaptability and lifelong learning (adults)

Professional courses (level 4) Apprenticeship courses (level 4)

Adult education, EFA (level 2 and 4) Modular training

Technological specialization courses (level 5)





COURSES AND TRAINING SCHEMES

2090 trainees

13% gas 36% electricity

48% SOLAR THERMAL

1% HVAC

1% energy efficiency

144 courses

18% gas
41% ELECTRICITY

38% SOLAR THERMAL

1% HVAC 2% energy efficiency

86% approvals 77 000 total training hours

BARRIERS

Following a SURVEY made to a number of entities, we also identified the following **KEY BARRIERS** that, by impeding the qualification of this sector's professionals, may put at jeopardy the fulfilment of goals associated with the 2020 strategy:

- ABSENCE OF TRAINING OFFER that matches the needs of companies;
- ECONOMIC drivers;
- TIME to be made available by the companies.

