

solarcombi+

WP2 MARKET ANALYSIS - Phase1

common meeting

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Phase 1

Market research on three pillars

- Small scale chillers (D2.1)
- Solar thermal applications (D2.2)
- Consumers (D2.3)

Markets to be analysed

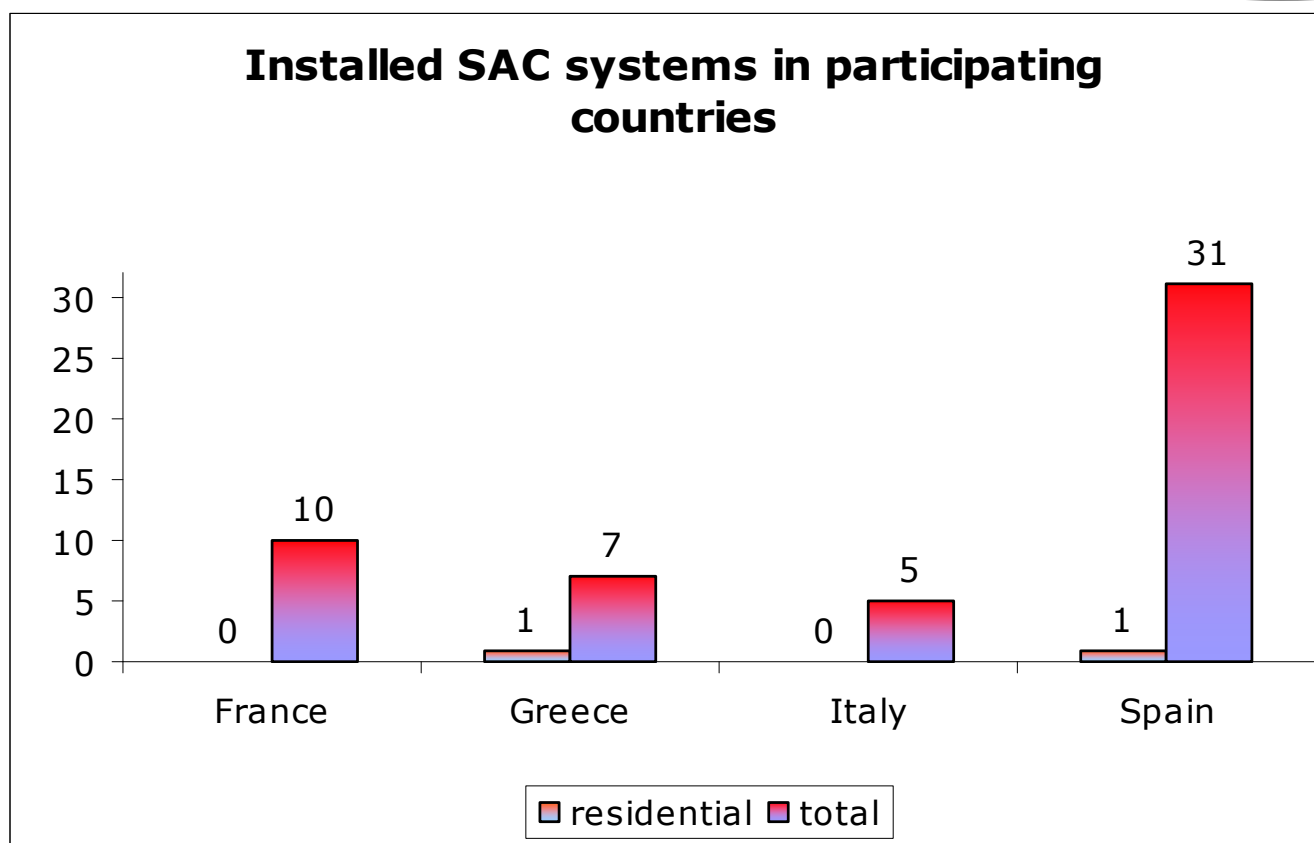
- Italy, Spain, Greece, Germany, Sweden, France & Austria (participating countries)

Methodology adopted

- Synergy among IEE projects
SolarCombi+ & SOLAIR
 - Using input from the SOLAIR questionnaire concerning the existing SAC systems (residential & non-residential sector), national AC market
- Questionnaires development (2 different and dedicated)
 - Questionnaire for the “industrial partners” of the project (existing technologies, kind of systems etc.)
 - Questionnaire for the “consumers behavior” based on conventional AC retailers opinion

Market Analysis Input from SOLAIR project

SOLARCOMBI+ Swedish partner:
15.000 Solar Thermal installations
for space heating in Sweden
(2000 installations/year)

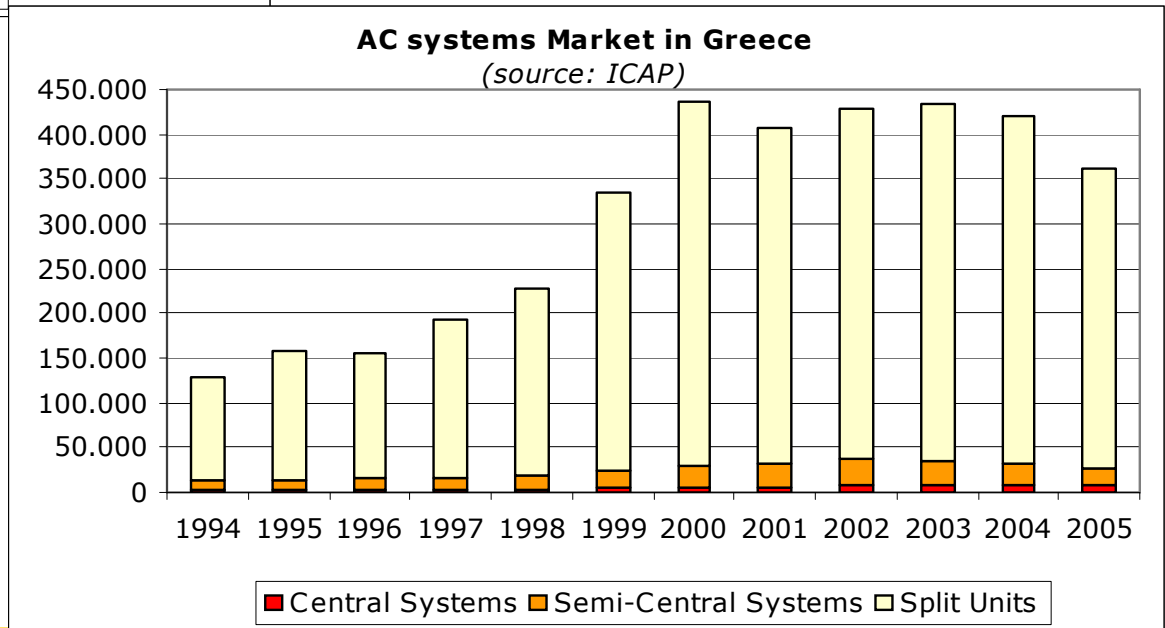
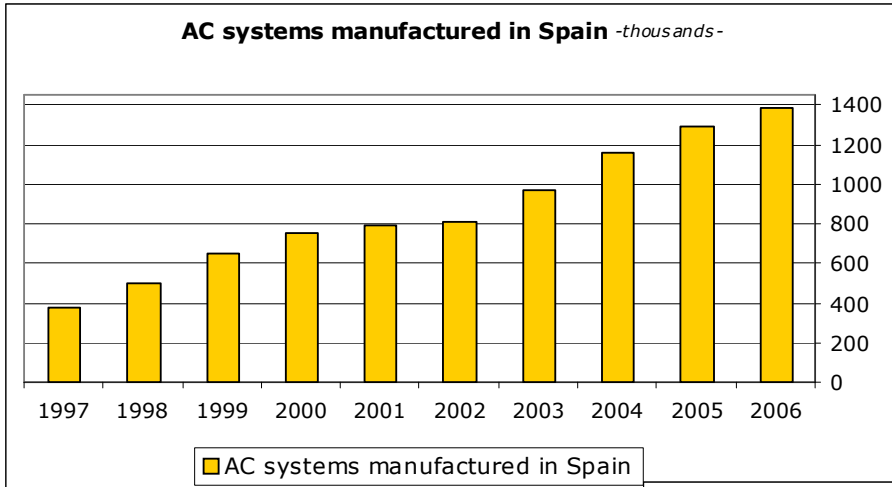


Source: Solair project



Market Analysis Input from SOLAIR project

National AC market's trends

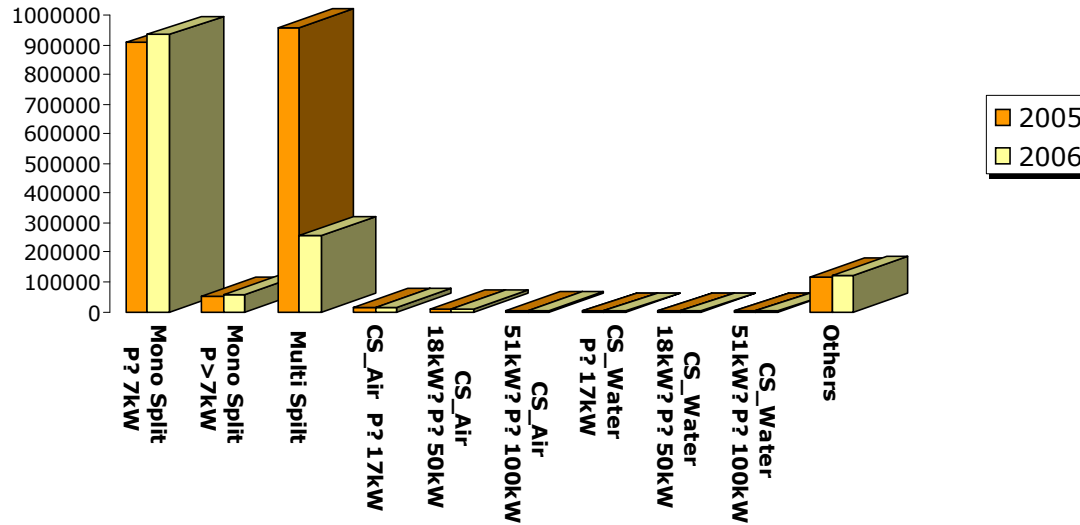


Source: Solair project



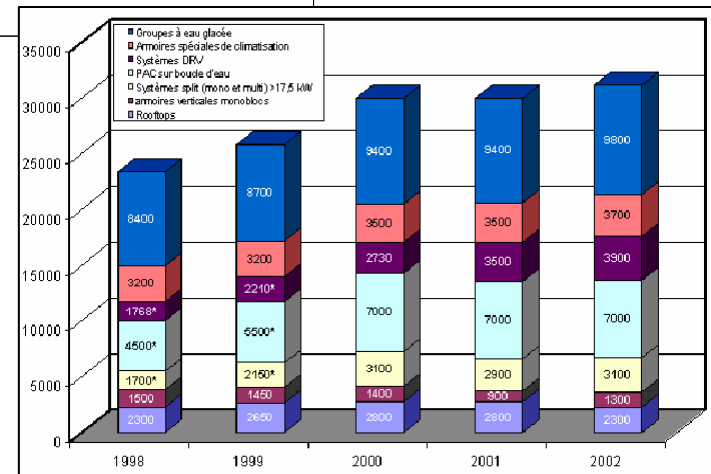
Market Analysis Input from SOLAIR project

Italian AC Market Analysis 2005/2006



National AC market's trends

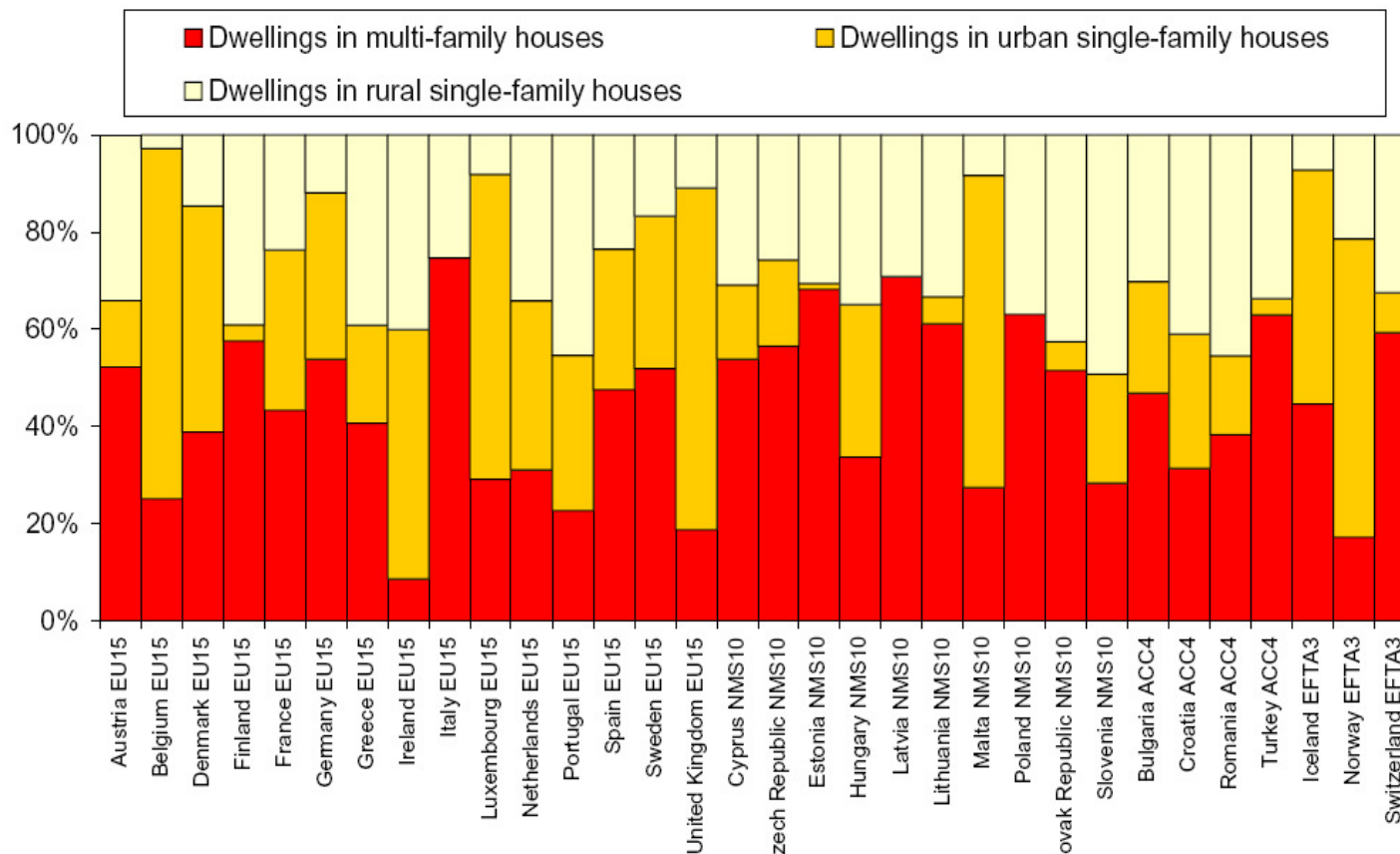
French AC Market Analysis



Source: Solair project



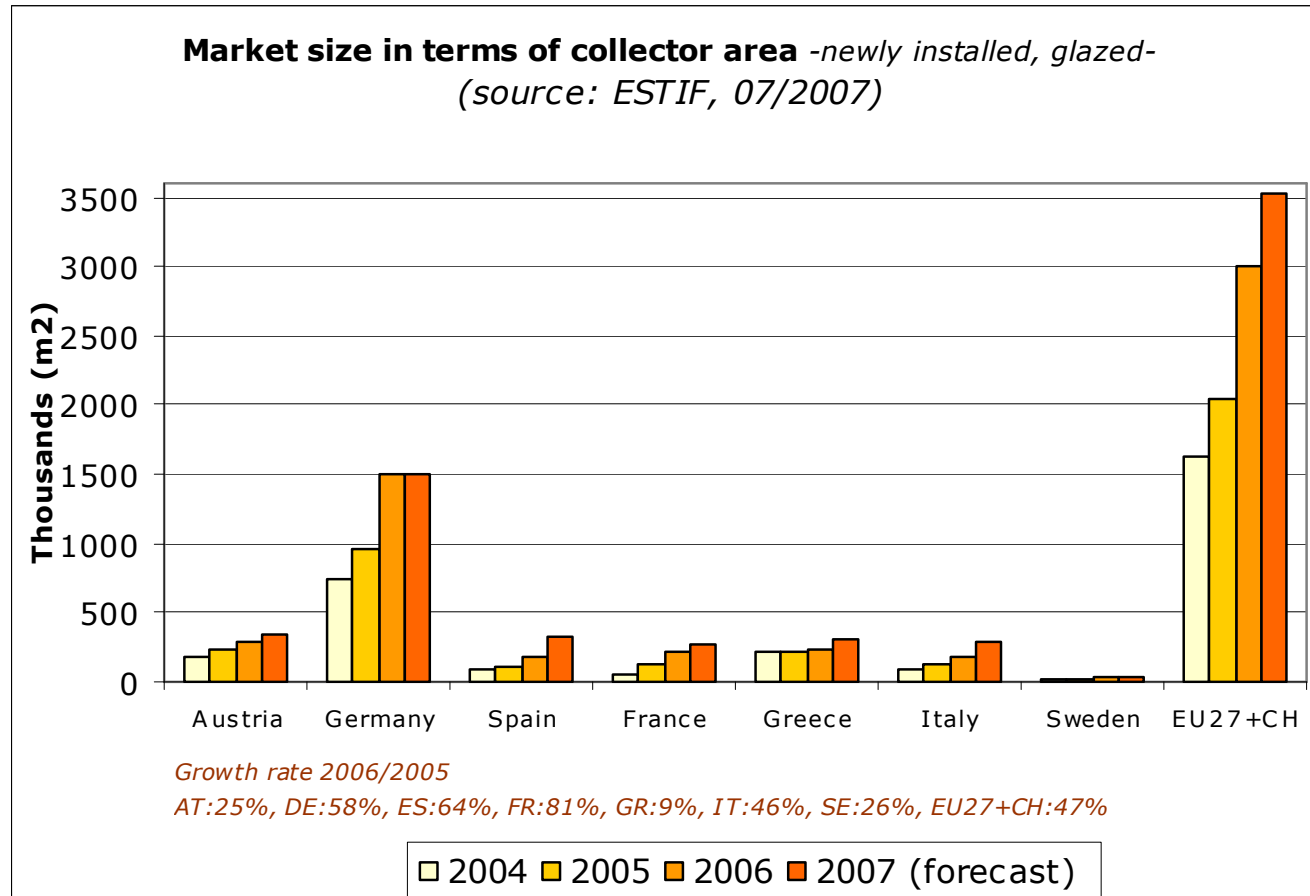
Market Analysis Input from SOLAIR project Buildings stock info



Residential living situation with respect to fraction of dwellings in multi- and single-family houses, based on the latest year (2006)



Market Analysis Input from other sources





Questionnaire SOLAR COMBI+ for industrial partners

Germany: SorTech & SonnenKlima, Austria: Solution ,
Spain: IKERLAN & ROTARTICA, Sweden: ClimateWell

Structure

- **Section A: Technology-Characteristics**

Technical info about the system and/or products
(chiller technology, refrigerant, cooling capacity, cop,
dimensions)

Operational Parameters (Temperature & flow rate)

Solar System

Compatibility with other energy sources & external
systems

Other technical parameters



Questionnaire for industrial partners

- **Section B: Costs /Market Description**

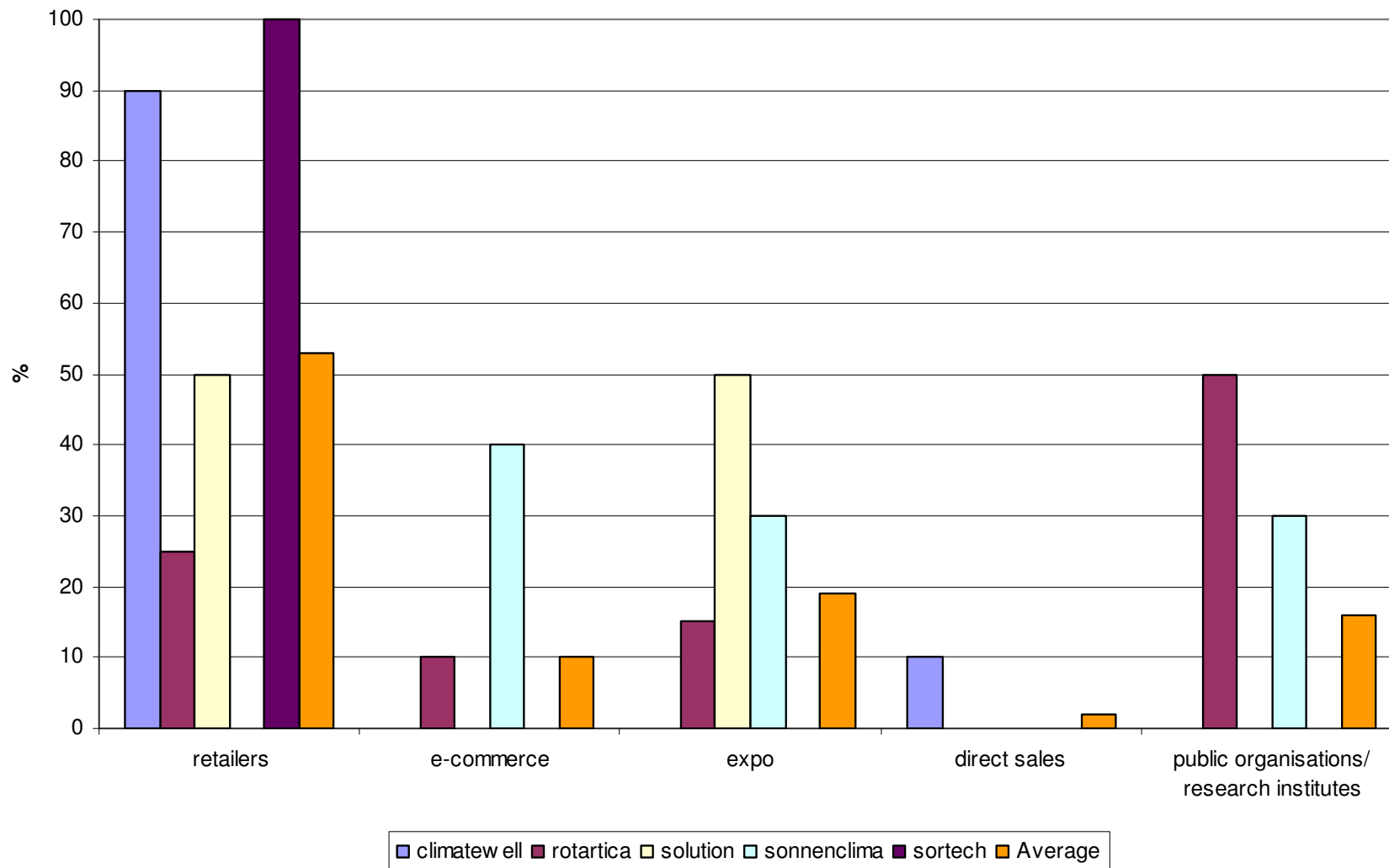
- System's cost breakdown (Components or products cost)
- Selling method
- Volume of sales
- Recommended use of the given system regarding the dwelling type (single family house, multi flat apartments etc)
- Markets of interest
- Projections (of sales, costs and turn-key price)

- **Sections C: Other**

- Customers opinions about the overall system operation, the provided services and costs
- New products foreseen

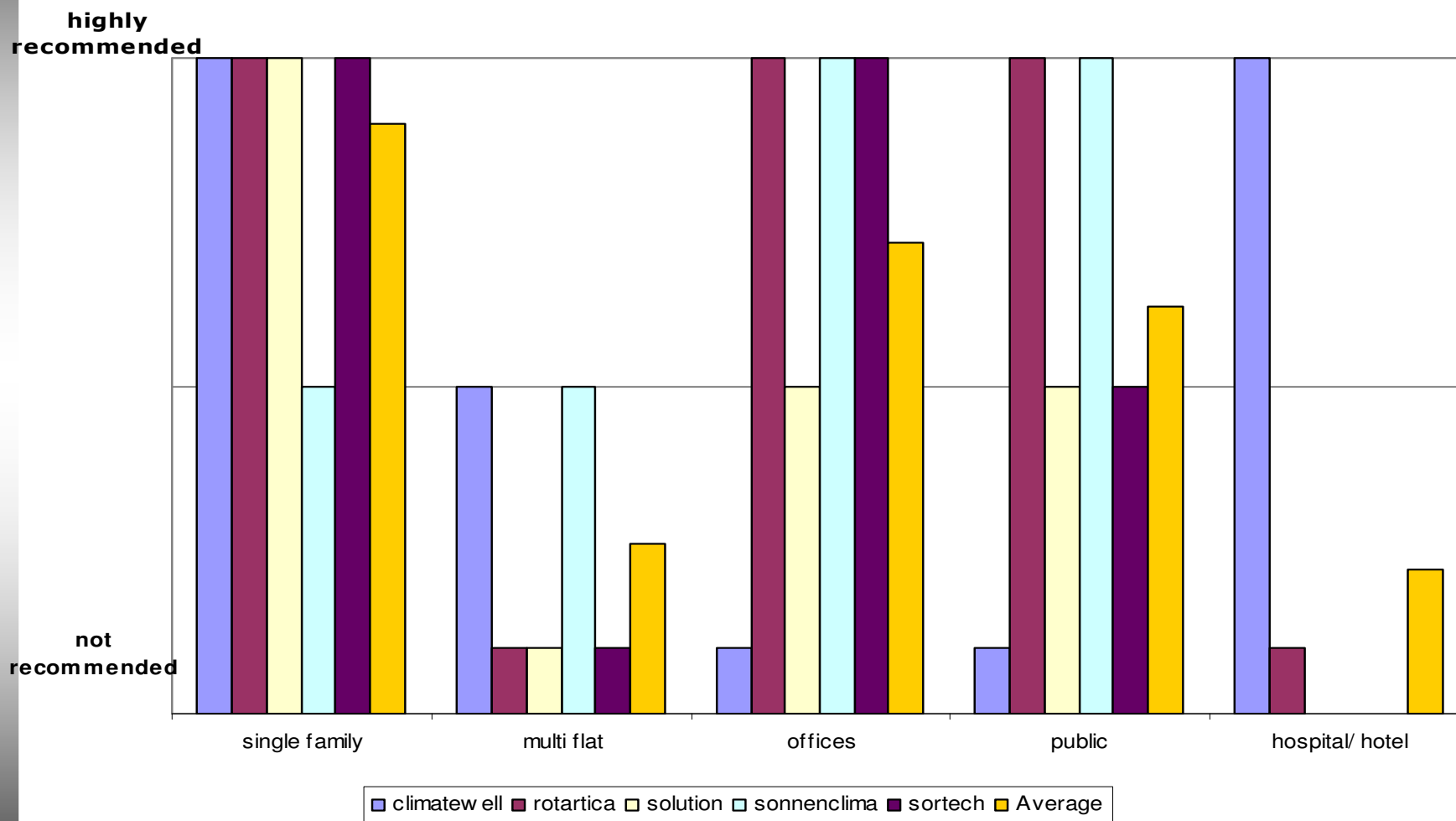


Selling Method





Recommended use of the given system regarding the dwelling type

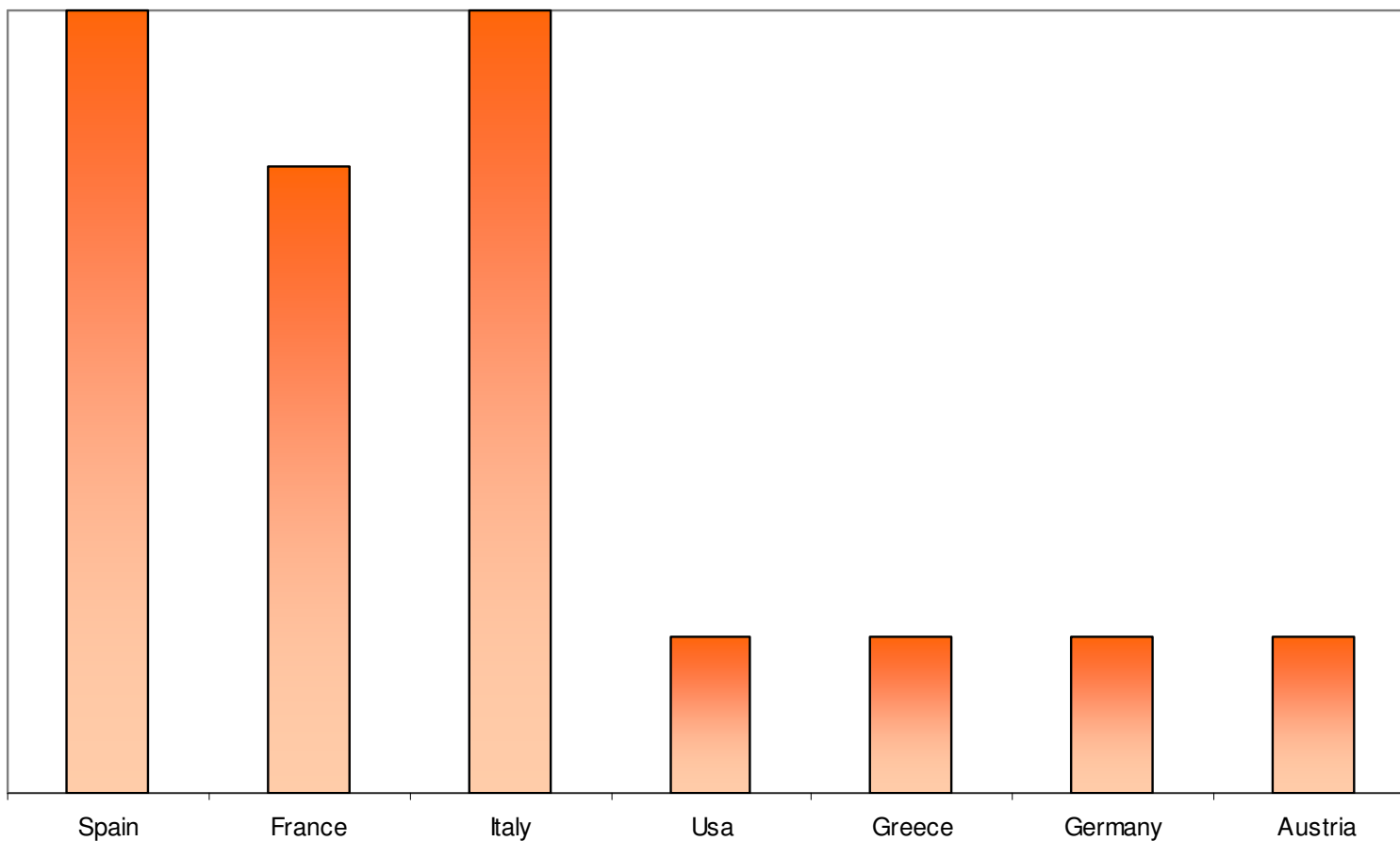




Markets of interest

(input from SOLARCOMBI+ industrial partners)

higher
priority





Questionnaire for “consumers behavior”

- Questionnaire built up to record consumers attitude based on the AC systems retailers opinion
- Quantitative & qualitative approach of the AC systems market

Structure

- **Section A: General Info of retailer**
 - firms represented by the retailer,
 - sales allocation (region, sector)
 - type of system (central, semi-central, split units)
 - volume of sales



Questionnaire for “consumers behavior”

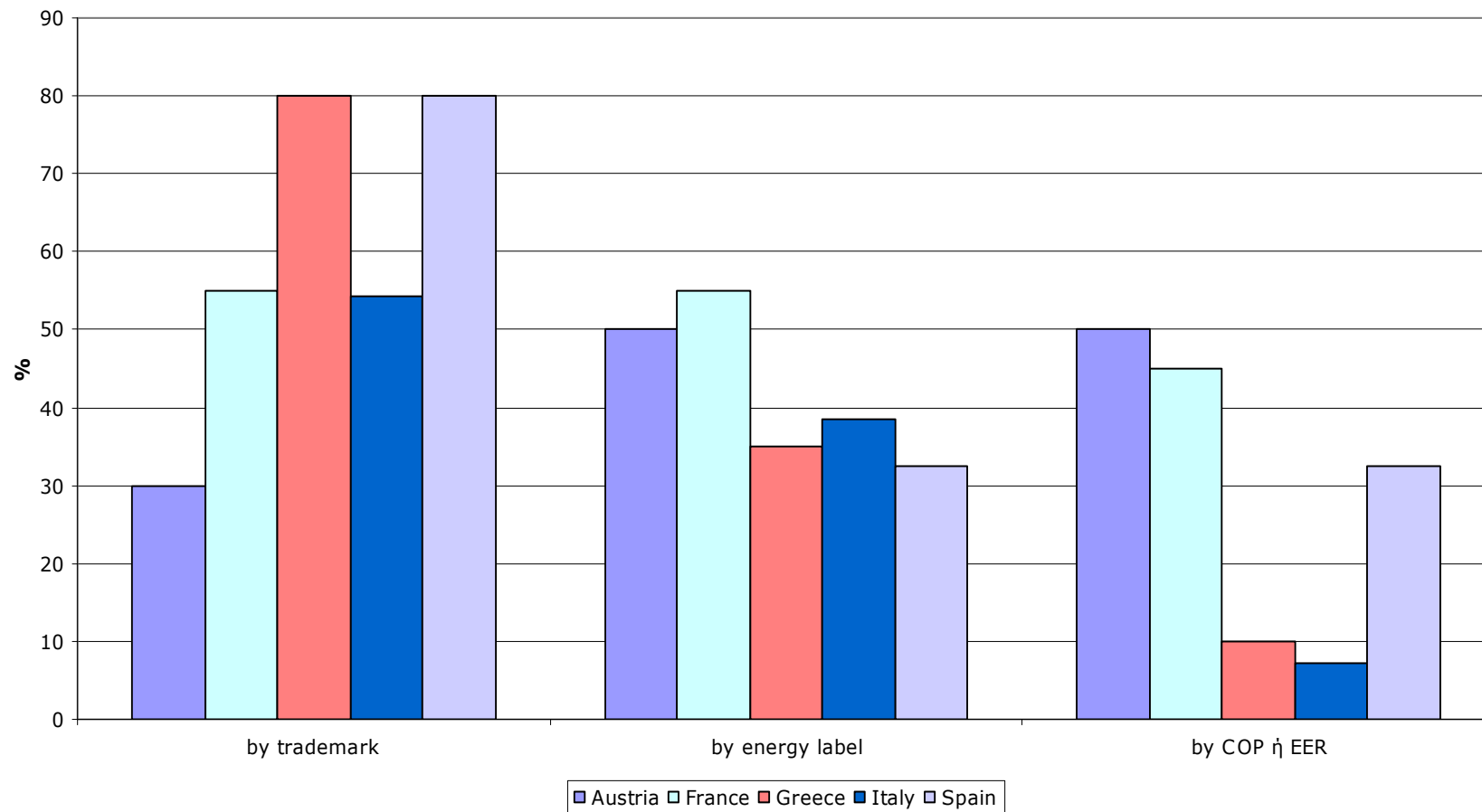
• **Section B: Consumers Attitude**

- Market share of: energy efficient products, nominal power & operation mode (*quantitative parameters*)
- Product selection based on qualitative parameters such as trademark & energy label
- Awareness on environmental protection, rational use of energy & energy efficiency
- Williness to pay for more efficient, reliable or elegant products

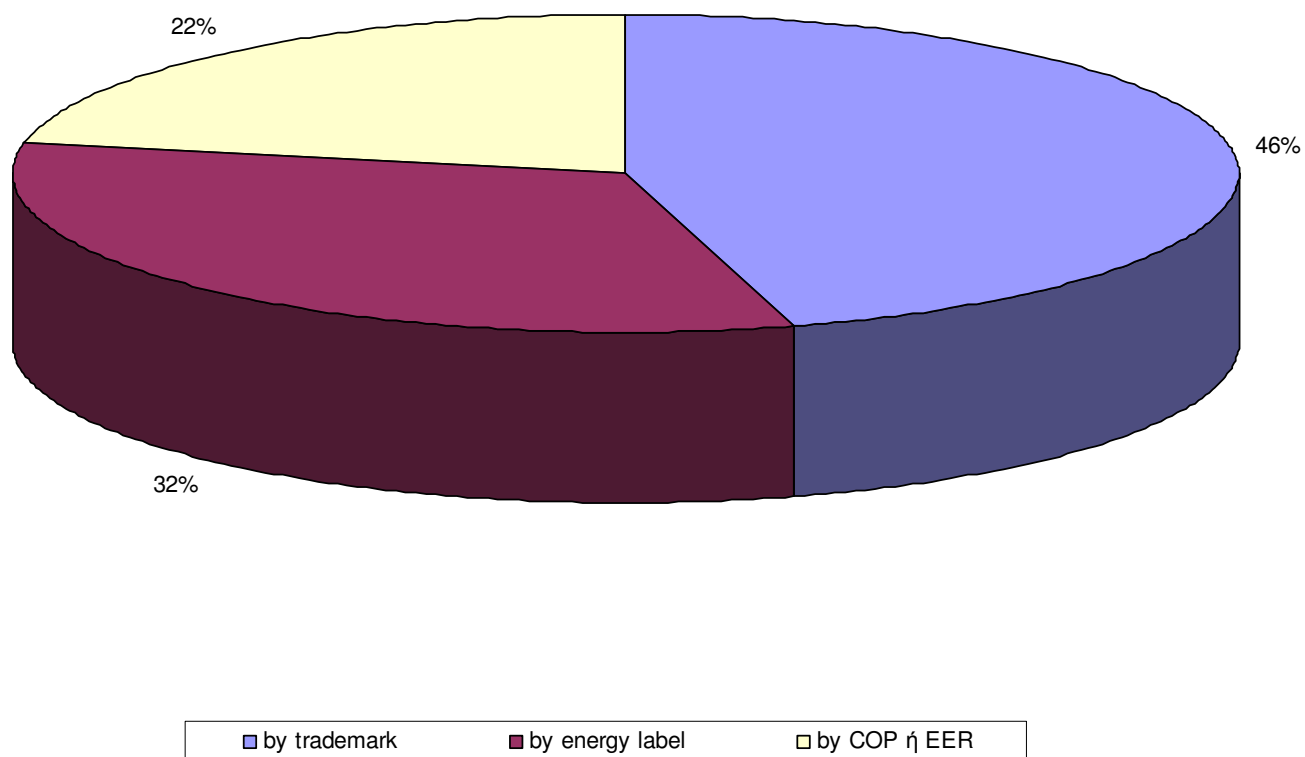
• **Section C: General info**

- Classification of products selection

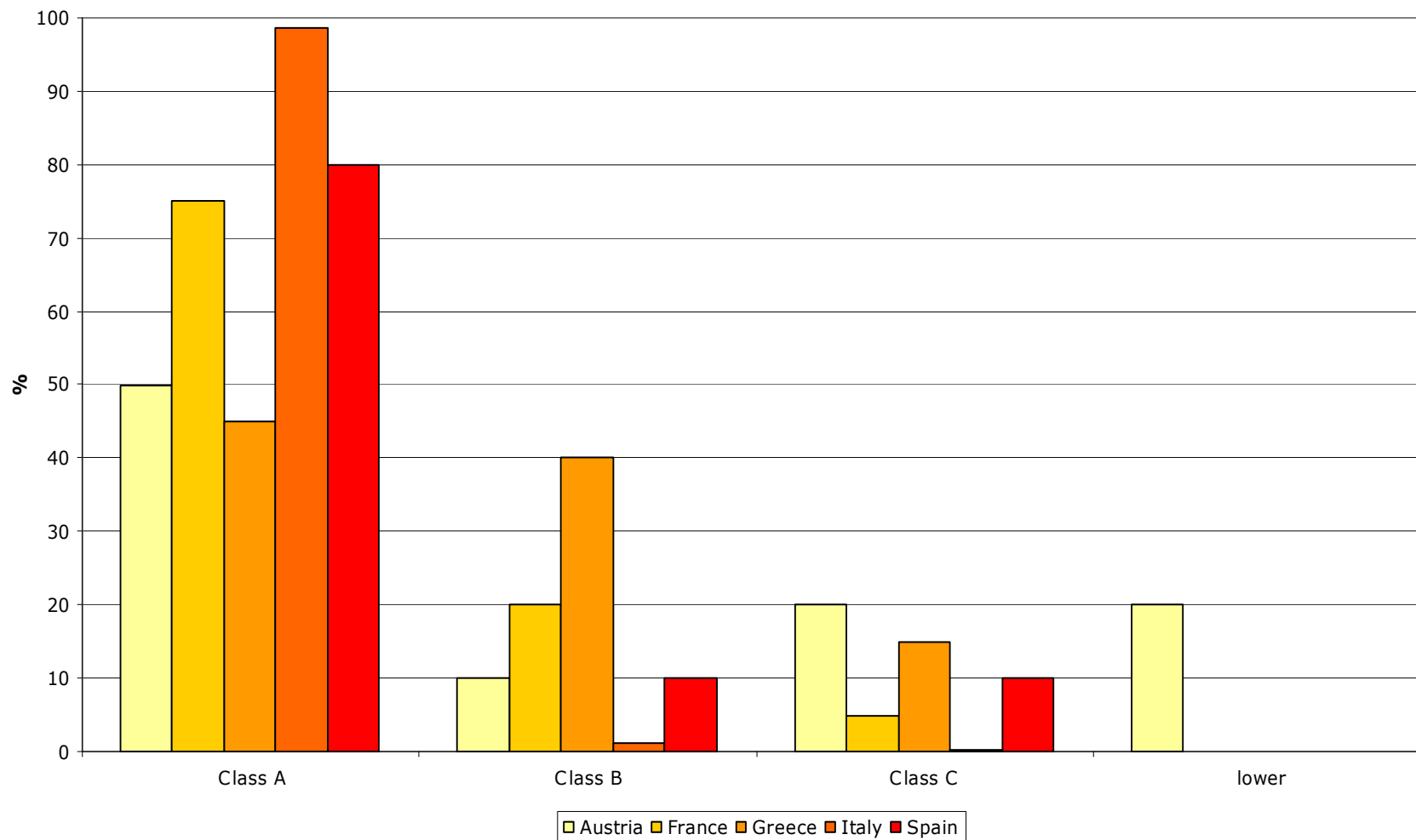
Product selection (non economic criteria)



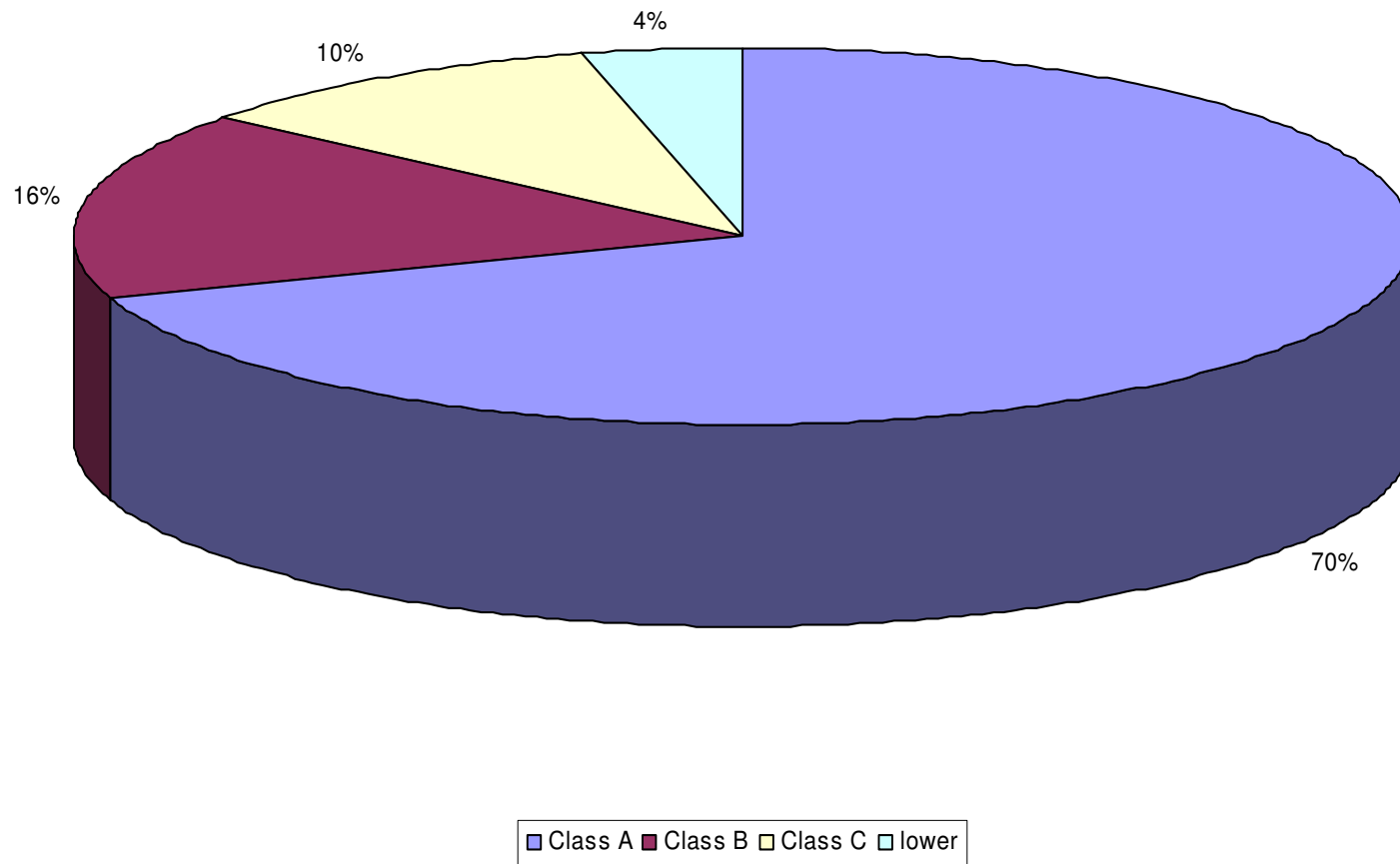
Product's selection based on non economic criteria



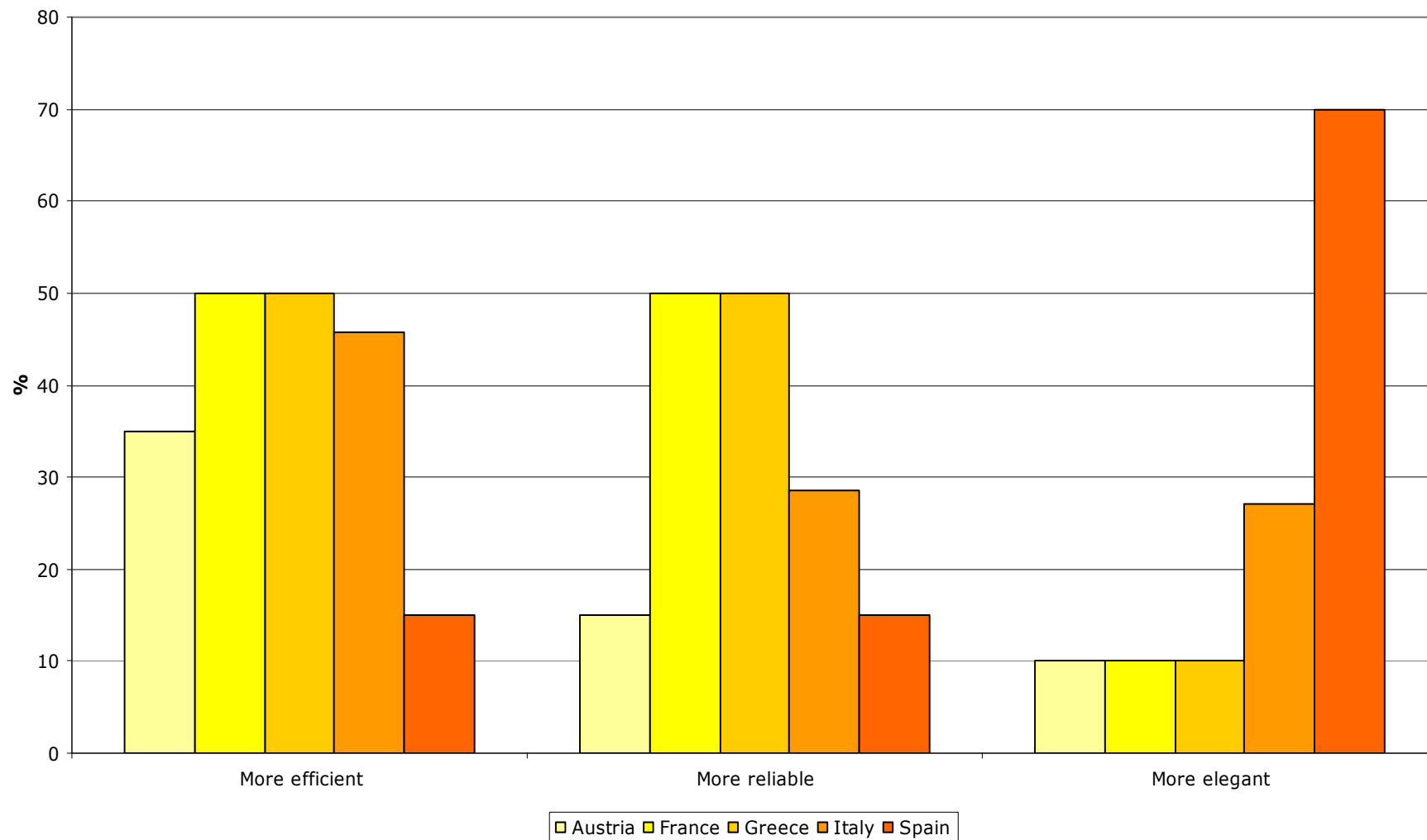
Energy Efficient products sold (split units)



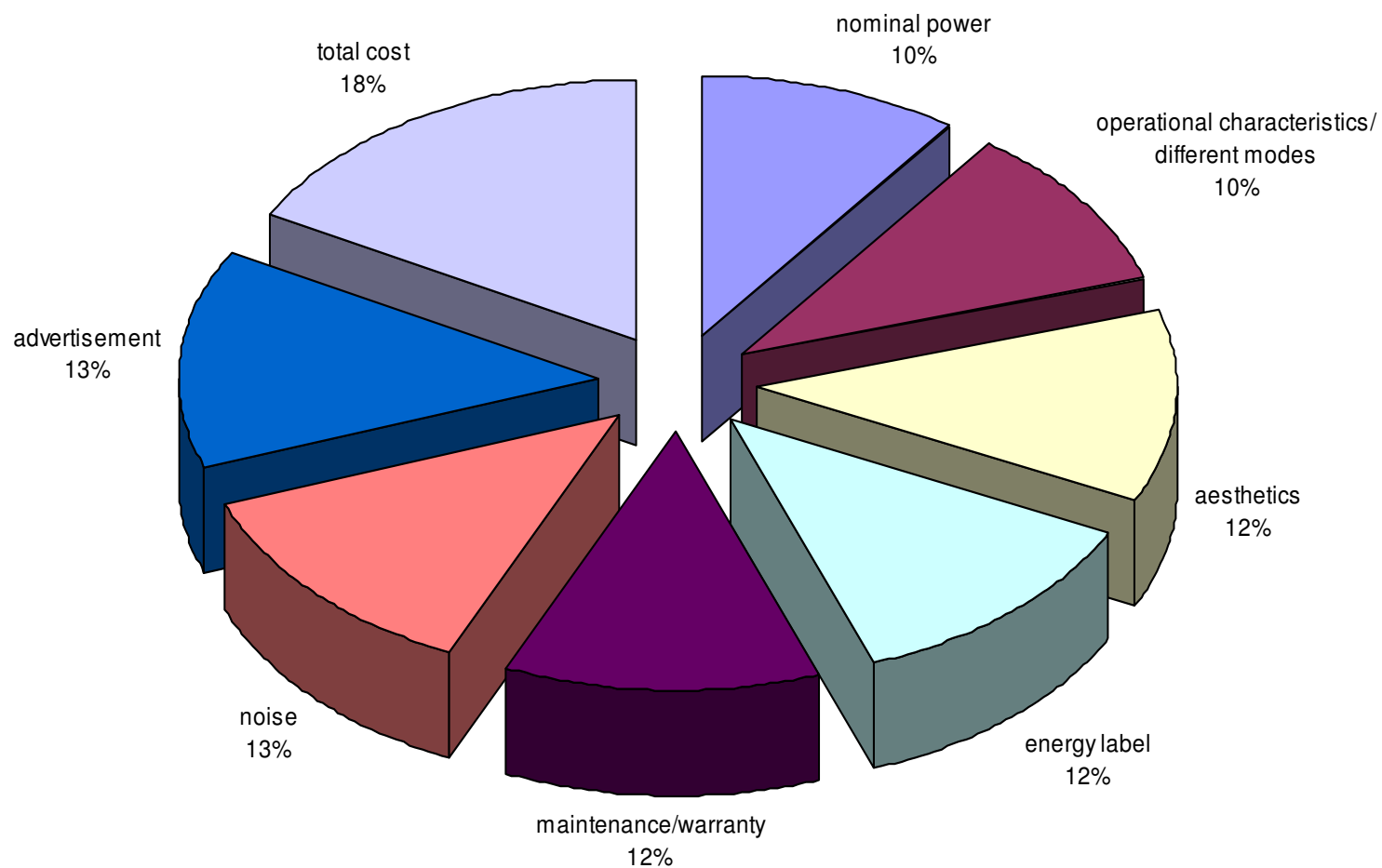
Products sold (split units) in participating countries
Energy Efficiency Classification



Consumers wiliness to pay for a system....



Classification of product's selection (average)



Remarks

- The Solar Combi+ Market Analysis is almost completed but pending data might have remarkable influence on the conclusion (especially on the consumers behavior evaluation)
- The message is positive for SAC but:
the consumers want to buy efficient products in a competitive price especially when these products are supported by famous trade mark.

Thank you for your attention