

Financing Green Technology Projects

- EU energy research funding for Europe and worldwide

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ADR, Conference on Green Technologies

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EU 2020 Strategy

➤ **Big Challenge:**

- overcome of crisis in economy and the financial sector
- Strengthening the level of competitiveness on global level

➤ **Solution:**

growth in three dimensions

- smart: education, **research & innovation**,
- sustainable: **low-carbon economy**
- inclusive: **job creation** , poverty reduction

➤ **Condition:**

coordinated policy actions between EU and national levels

EU targets

FIVE AIMS on EU2020 agreed

1. Employment

2. **R&D:** 3% of the EU's GDP to be invested in R&D

3. Climate change and **energy sustainability**

- ↘ 20% reduction of greenhouse gas emissions
- 20% increase of energy from renewables (RES)
- 20% increase in energy efficiency

4. Education

5. Fighting poverty and social exclusion

Flagship initiatives

SEVEN instruments defined

- **Innovation Union** finance for R&D, innovation chain
- Youth on the move
- Digital agenda
- **Resource Efficient Europe** decarbonised economy, more RES
- **Industrial Policy:** ... improve business (SME)
- New Skills & jobs
- Platform against poverty

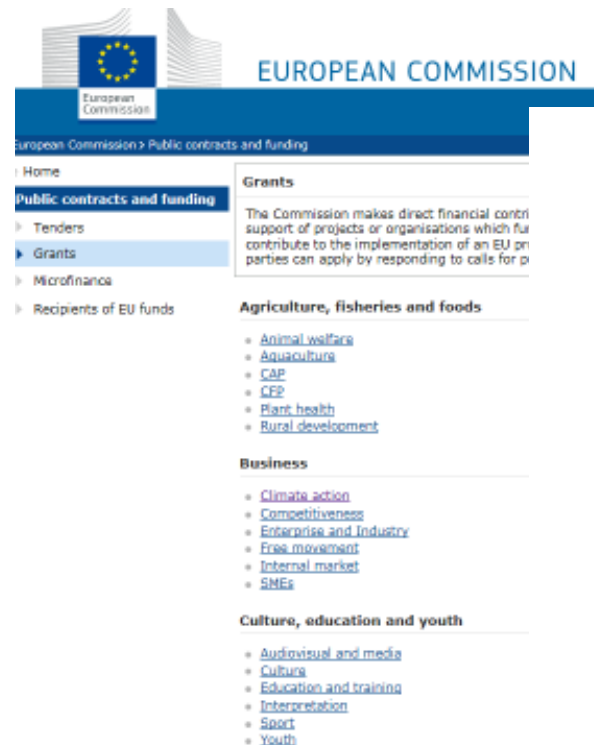
EU - funding programmes



... about 50
EU-Programmes

and some more on other
websites of the
European Commission.

But ... !



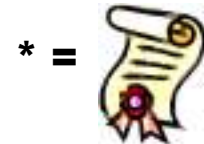
- Economy, finance and tax**
 - Competition
 - Economy
 - Fight against fraud
 - Financial services
 - Taxation and custom union
- Employment and social rights**
 - Employment
 - European Social Fund
 - Social affairs and equal opportunities
- Energy and natural resources**
 - Climate action
 - Energy
 - Intelligent Energy Europe
 - Trans-European networks
- Environment, consumers and health**
 - Consumers
 - Environment
 - Health
 - Maritime policy
 - Sustainable development
- External relations and foreign affairs**
 - Common Foreign Security Policy
 - Development and Cooperation
 - Enlargement
 - External trade
 - Foreign policies
 - Humanitarian aid
- Justice, home affairs and citizens' rights**
 - Citizenship
 - Fight against fraud
 - Immigration
 - Internal security
 - Justice
 - Security and Fundamental Rights

http://ec.europa.eu/contracts_grants/grants_en.htm

Landscape with focus on energy

Options on energy issues:

- **IEA** - International Energy Agency
- **COST*** - European Cooperation in Science and Technology
- **EUREKA*** / EUROSTARS / EUROGIA2020
- **EU – Framework (Horizon 2020)**
- **Structural Funds** - ERDF, ESF, CF, IPA
- **TEN** - Trans-European Networks (-Transport, -Energy, -Telecomm.)
- **NER 300** - New Entrants' Reserve / ETS
- **EIT** - European Institute of technology



SET-Plan / Strategic Energy Technology - Plan



EU POLICY STRATEGY re-focusing the European energy supply

- Governance: high level steering committee (COM, MS)

Supported by:

- EII - European Industrial Initiatives
on **Solar, Wind, Bio, Grids, CCS, Nuclear, Smart Cities**
- EERA – Alliance of European research structures



Strategy:

- Roadmaps on 2050, Implementation plan on 2020



SET-Impact: Priority setting for ENERGY under HORIZON 2020

HORIZON 2020



HORIZON 2020 - the new and integrative EU–Framework Programme on Research, Demonstration and Innovation activities (2014-2020) based on former individual funding activities as

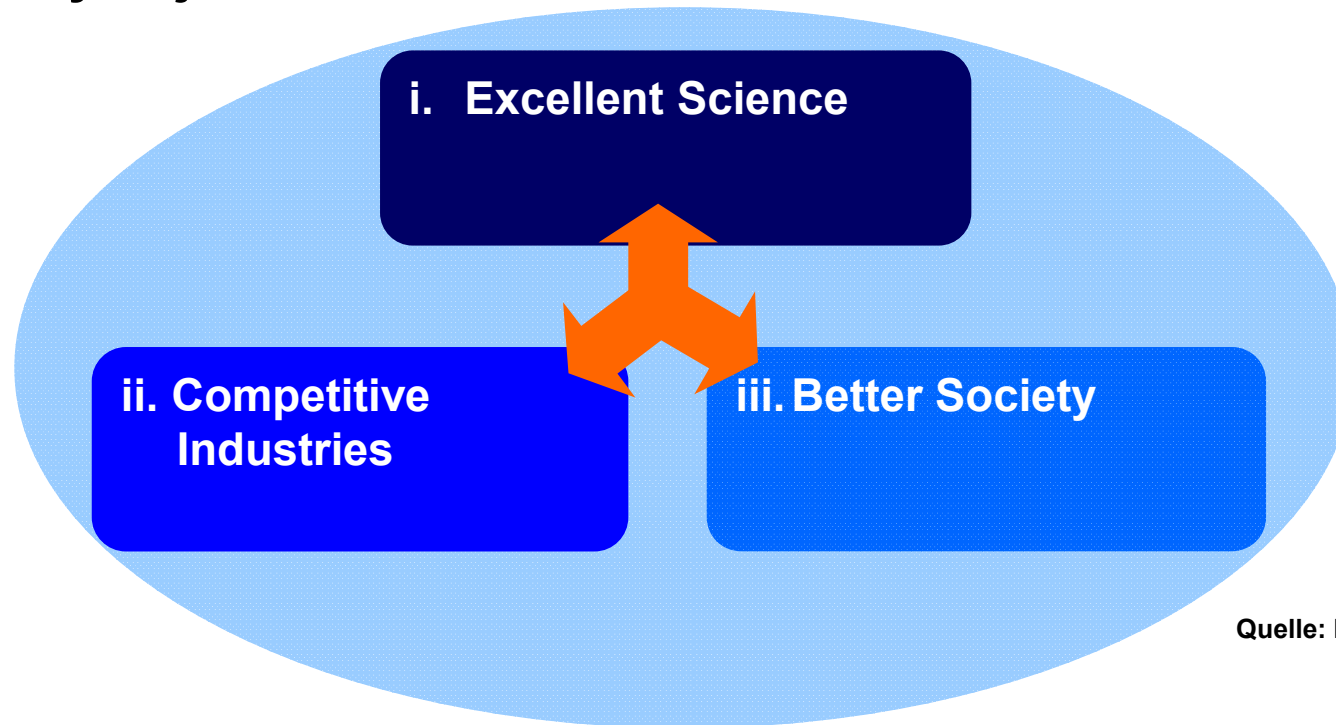
- **FP7** - 7th EU-Research Framework Programme
- **EIT** - European Institute of Innovation and Technology
- **CIP** - Competitiveness and Innovation Framework Programme (partly)

With special focus on

- ↪ fostering the **Innovation** process (SME assistance)
- ↪ further simplification of rules & procedures

HORIZON 2020

Three key objectives



Quelle: EUB

HORIZON 2020 - Structure

| i) Excellent Science | ii) Competitive Industries | iii) Better society (societal challenges) |
|--|--|---|
| <ul style="list-style-type: none"> ▪ ERC ▪ FET ▪ Marie Skłodowska Curie ▪ EU research infrastructures | <ul style="list-style-type: none"> ▪ KETs - Key Enabling Technologies ▪ Risk finance ▪ Innovation in SMEs | <ul style="list-style-type: none"> ▪ Health... ▪ ... Bio-economy ▪ ... Energy ▪ ... Transport ▪ ...secure Societies ▪ Climate action ... |
| <ul style="list-style-type: none"> ▪ European Institute of Innovation & Technology <ul style="list-style-type: none"> ▪ Joint Research Center | | |