



RENEWABLE ENERGY TECHNOLOGIES AND SOCIO-ECONOMIC TOOLS

Photovoltaics
Medium to Long term actions

Funded projects and topics under
discussion for next call





Photovoltaics

Topics open for this call

- ◆ **Advanced techniques for low-cost thin-film cells and modules (IP).** The objective is to provide the scientific and technological basis for industrial mass production of cost effective and highly efficient, environmentally-sound, large-area thin film solar cells and modules.
- ◆ **Pre-normative actions focusing on performance assessment, including BIPV codes (IP).** The objective is to conduct pre-normative research, to develop more reliable test procedures and measurement methods for innovative types of PV modules, harmonising measurement and evaluation techniques.
- ◆ **R&D on high throughput industrial manufacturing of thin-film silicon PV modules using low-cost roll-to-roll technology (STREP).** The objective is to develop roll-to-roll technology (metal and polymer foil substrates).





Photovoltaics

Topics open for this call

- ◆ **Development of solar-grade silicon feedstock, wafers and cells (STREP).** The objective is to achieve a significant cost reduction through more efficient cleaning processes for raw materials; to secure high volume production of solar grade silicon; and to develop recycling techniques for end-of-life products.
- ◆ **Large area CIS module for MW-scale production (STREP).** The objective is to develop advanced manufacturing techniques for low-cost, stable, high efficiency and environmentally sound thin-film CIS solar cells and large area modules.
- ◆ **Stable organic PV cells and modules (NoE).** The objective is to integrate the EU research groups and centres of excellence in the area of organic and dye-sensitized nanocrystalline materials, with a view to the accelerated development of low-cost, stable PV cells.





INSTRUMENTS

NEW

- **Integrated Projects (IP)** aiming to integrate the critical mass of activities for achieving a specific objective; around €10 M of EU funding for about 15 research teams for 4-5 years
- **Networks of Excellence (NoE)** around a joint programme of activity and aiming to create a durable integration among research teams; around €7 M of EU funding for about 10 partners





INSTRUMENTS

TRADITIONAL

- **Specific Targeted Research Projects (STREP)** focused on a specific RTD objective; around €1-2 M of EU funding for 6 research teams for 2-3 years
- **Co-ordination Actions (CA)** oriented towards a better networking of research teams; less than €1 M for about 15-20 partners for 2-3 years
- **Specific Support Actions (SSA)** for accompanying the programme (dissemination, transfer of results); less than €1 M for a limited time and number of teams





EVALUATION CRITERIA (with Threshold marks)

CRITERION	IP	NoE	STREP	CA	SSA
Relevance	3/5	3/5	3/5	3/5	4 / 5
Potential impact	3/5	3/5	3/5	3/5	3/5
S&T excellence	4 / 5		4 / 5		
Quality of the consortium	3/5		3/5	3/5	
Quality of the management	3/5		3/5	3/5	3/5
Mobilisation of resources	3/5		3/5	3/5	3/5
Excellence of the participants		3/5			
Degree of integration and the JPA		4 / 5			
Organisation and management		3/5			
Quality of the co-ordination				4 / 5	
Quality of the support action					3/5
Overall threshold score	24 /30	20 /25	21 /30	21 /30	17.5 /25





Photovoltaics

Funded FP6 projects

CRYSTAL-CLEAR (IP) Development of Crystalline Silicon technologies for low-cost high-efficiency and reliable modules (**16 M€- ECN**)

FULL-SPECTRUM (IP) Development of new concepts for third-generation PV materials and techniques aiming at very high efficiency solar cells (**8.4 M€ - IES/Madrid**)

MOLICELL (STREP) Molecular materials and hybrid nanocrystalline/organic solar cells (**2.5 M€- CEA/GENEC**)

HICONPV (STREP) High concentration PV system (**2.7M€-SOLUCAR**)

BIPV-CIS (STREP) Improved integrated PV using thin-film CIS modules for building retrofit (**2.3M€- ZSW**)

PV-CATAPULT (CA) Long-term research, technology, market and socio-economic aspects for the PV sector & PV-Thermal Forum and European Photovoltaic Performance Initiative Collaboration (**1.7 M€- ECN**)





Staying informed

CORDIS:

FP6 : <http://www.cordis.lu/fp6/>

Sustainable development : <http://fp6.cordis.lu/fp6/sustdev.htm>

EUROPA:

Energy research web site

http://europa.eu.int/comm/research/energy/index_en.html

DG Energy and Transport web site

http://europa.eu.int/comm/energy/index_en.html

Contact Persons

Georges Deschamps

georges.deschamps@cec.eu.int

Rolf Ostrom

rolf.ostrom@cec.eu.int

Garbiñe Guiu

garbine.guiu@cec.eu.int

David Anderson

david.anderson@cec.eu.int

