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CHEETAH - Integrated research programme in the field of photovoltaics

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Outline

CONTEXT

- ✓ SET-Plan and EERA PV
- ✓ IRPs

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- ✓ Objectives and expectations
- ✓ Challenges

RD&D Policy – The SET Plan

Portfolio of technologies with different maturity levels

✓ Industrial initiatives 2020 perspective

- Wind, Solar, CCS, Electricity Grids
- Bioenergy, Nuclear
- Smart Cities, Fuel Cells and Hydrogen

✓ Research Alliance perspective beyond 2020

- Wind, PV, Smart Grids, Geothermal
- Materials for Nuclear, CCS, Bioenergy
- Materials, CSP, Storage, Fuel Cells, Ocean Energy, Smart Cities
- Socio-economics, Shale Gas



Integrated Research Programmes

Objectives

- ✓ Reinforce European Research Excellence in energy technology
- ✓ Address high risk, high cost and long-term research for which there is lack of critical mass at MS level, strong potential for economies of scale and high demand for cutting-edge research capacities
- ✓ Increase the innovation potential of the related research programmes, in particular by reinforcing the partnership with the European industry
- ✓ Speed up the development of appropriate skills in Europe

Integrated Research Programmes

Pilot actions in support of EERA joint programmes: Combination of Collaborative Project (CP) and Coordination and Support Action (CSA)

Activities

- ✓ Activities to integrate national R&D programmes
- ✓ Joint R&D activities
- ✓ Exchange of researchers
- ✓ Joint development of R&D infrastructure
- ✓ Transfer of knowledge
- ✓ International cooperation

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Objectives

- ✓ Overcome bottlenecks in PV technology identified by EERA
- ✓ Reinforce the collaboration between PV R&D centres in Europe
- ✓ Strengthen the competitiveness of European PV industry on a global scale
- ✓ Prepare trained scientists and engineers

Challenges

- ✓ Are the bottlenecks identified those of major interest or the 'least common denominator'?
- ✓ Can large structures like CHEETAH produce and exploit innovations?
- ✓ Can CHEETAH strengthen the competitiveness of European PV industry?