



DE LA RECHERCHE À L'INDUSTRIE



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What PV infrastructure priorities in Europe for R&D and training

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Needs regarding Research Infrastructures

- Better access to large characterization and supercomputing facilities
- Maintain some possibilities of periodic benchmarking with partnering centers (as in the CHEETAH project)
- Facilitate the emergence of industrial pilot lines and demonstrators in Europe
- A e-infrastructure about PV devices, modules and systems, interrelated to meteorological, geospatial, electrical and social data would bring key added-values in:
 - Facilitating the continuation of Round Robins, improving test methodologies,
 - Accelerating technico-economical feedback (module and system levels) after innovation (reliability, ageing rates, power plant performances, optimizing the added-values, etc.)

Infrastructure training needs

- Develop a common e-learning platform :
 - In English
 - In all other languages in order to enlarge the audience, depending on the topics
- Links between existing initiatives may be developed. The INES e-learning platform focusing on some downstream topics may be complementary to others.
- A coordinated promotion may be set up through different channels (IRENA, embassies, local agencies, specific bodies like GIZ etc...)
- For downstream topics, organizing feedback on the operation of systems through a e-infrastructure could provide a big added-value to trainers and trainees.

A STRATEGIC RESEARCH INFRASTRUCTURE AGENDA

Six types of research infrastructures

PV value chain

Material and equipment suppliers

Cell / Module manufacturers

System providers, installers

Integrated energy services, citizen

Investors

Research activities

New materials, New process

High throughput processes

Integration (grid, buildings, cities), reliability

Power and yield prediction, management strategies, diagnosis

Research infrastructures

5. E-infrastructure for large-scale management of PV systems

6. Training all along the PV value chain



Thank You for your attention