


European Cooperation in the field of Scientific and Technical Research

Building Integration of Solar Thermal Systems – TU1205 – BISTS


WG 4 update


BISTS



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Building Integration of Solar Thermal Systems – TU1205 – BISTS

Outcomes WG4

Taxonomy of B I S T S


Training Schools


Outputs from different groups

Flyer for promotion

Brainstorming for future applications


Feedback David.Kennedy@dit.ie






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MOU deliverable:


document and a paper submitted to a journal.

Handbook at end of Action




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BRAINSTORMING

- NEW IDEAS, INNOVATIONS OR PRODUCTS
- INTEGRATION
- MODELLING AND SIMULATIONS
- NEW APPLICATIONS FOR BISTS

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DAY 1, FREIBURG - BRAINSTORMING SESSION
4th September 2014


IDEAS Proposed and Segmented

- System shapes, Geometry, Sizing, Effects on under performance, Levels of integration, quality of integration, Flexibility, Roof installation, integrated units, Micro collectors, PCMs, Connectivity, More and better integration with other energy sources, Large scale applications, Stand alone systems, Retrofits, Flexible parts, components and products in solar and PV, Modular, Scale-able, Modular, Architectural aspects, Prefabrications, Element connections, BISTS for Desalination, cooling etc, Portability, Design and develop for disaster areas in world, refugee camps etc., Transparency, Shading, Vacuum tubes, Multi use and purpose, Raw materials selection.



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- Energy company links, New business interests, Energy networking, Avoid spikes in energy demand, Supply and demand combined, Seasonal, Smart grids, Funding, government funding, research funding, Finance and costs
- Benchmarking of measuring tools and software, Reliability, legal, liability, and modifications to buildings, Function for applications, Validation of models, Testing, Links to design software, Building certification, Directives, Testing, standards, on site measurements, Compare performance of systems
- Design workshops- multi disciplinary in nature, Develop skilled people, training, Dissemination- video, PP etc., Promote TU1205



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- Exergy, Liquid air, Thermal mass for anti-freeze, Water absorption for cooling, Thermal mass with panels, Storage, Cooling, Climate flexibility of systems, Matrix of climate relevance, more detailed physics and science of systems,
- Better Controls for the BISTS systems, Where should the equipment be placed, Fire escapes etc.
- Recycling, dismantling, life, waste



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- SHORT TERM SCIENTIFIC MISSIONS
- TRAINING SCHOOL: 31 STUDENTS (ANNUALLY)
- REVIEW PAPERS FOR JOURNALS WG1, WG2, WG3.
- HANDBOOK TO BE DECIDED ON (TEMPLATE FROM PUBLISHER)
- PLANNING CONFERENCE
- CASE STUDIES (90) DISCUSSION: MERVYN
- EXPANSION OF DATA BASE



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CASE STUDIES

- LENGTH, BREATH OF TECHNOLOGY
- TAXONOMY
- CASE STUDIE SON WATER, AIR, COMBI, COOLING, STORAGE, BIPV, VENTILATION, FAÇADE, ROOF, THERMAL SLATES, SOLAR SANDWICH, SPACE COOLING, COMBINED AIR-WATER FACADES,



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