


European Cooperation in the field of Scientific and Technical Research


Building Integration of Solar Thermal Systems – TU1205 – BISTS

WG2 parallel session: Modelling and Simulation of BISTS



COST is supported by
the EU RTD Framework Programme

ESF provides the COST Office
through an EC contract



European Cooperation in the field of Scientific and Technical Research

Building Integration of Solar Thermal Systems – TU1205 – BISTS


Agenda

- 1- Welcome to participants
- 2- Objectives, deliverables and working programme
- 3- Distribution of tasks
- 4- Timetable of work



COST is supported by
the EU RTD Framework Programme

ESF provides the COST Office
through an EC contract





European Cooperation in the field of Scientific and Technical Research


Building Integration of Solar Thermal Systems – TU1205 – BISTS

Participants

Christoph Maurer (Germany)
 Christoph Cappel (Germany)
 Danijela Nikolic(Ser)
 Annamaria Buonomano (Italy)
 Roberto Fedrizzi (Eurac, Bolzano)
 Kostas Christofi (Cyprus)
 Rokas (Lithuan)
 Daniel Chemisana (Spain)
 Ricardo Mateus (Port)
 Jayanta Mondol (GB)

 COST is supported by the EU RTD Framework Programme

ESF provides the COST Office through an EC contract 




European Cooperation in the field of Scientific and Technical Research


Building Integration of Solar Thermal Systems – TU1205 – BISTS


Deliverables and Milestones

- **Deliverables include:**
 - D 2.1. Review of current STS modelling techniques. This review will also be submitted as a joint partner publication in a peer reviewed journal (Month 12)
 - D 2.2. Annual STSM for PhD students and Early Stage Researchers on theoretical modelling and numerical simulation of thermal behaviour of BISTS (Month 6, 18, 30, 42)
 - D 2.3. Annual Training School for dissemination of expertise to PhD students and Early Stage Researchers (Month 18, 30, 42). This will include topics on theoretical modelling and numerical simulation of thermal behaviour of BISTS.
 - D 2.4. Report on the validation of developed codes, both thermal and optical (Month 30). **Danijela and Christoph**
 - D 2.5. Report on the new models developed during the project and potential for adaptation for RES (Month 42). Muhsin Kiliç and Joao Ramos & Aritra
 - D 2.6. Report on the development of new models for innovative integrated STS applications (Month 46). Jayanta Mondol and Milorad.
- **Milestones:**
 - 2.1 New validated mathematical and numerical models to predict the BISTS performance
 - 2.2 New validated models to optimize BISTS in innovative RES applications

1st Year
2nd Year

 COST is supported by the EU RTD Framework Programme

ESF provides the COST Office through an EC contract 



European Cooperation in the field of Scientific and Technical Research

Building Integration of Solar Thermal Systems – TU1205 – BISTS

- **D 2.4. Report on the validation of developed codes, both thermal and optical (Month 30).**
- Template of the Deliverable

Specific requirements of BIST modelling and simulation

Validation methodologies


- On site validation
- Test cells
- Laboratory

Validated models for different solar thermal integrated collectors

- Building Added systems: modelling/simulation and validation
- Building Integrated systems: modelling/simulation and validation
 - Opaque systems
 - Thick insulation systems
 - Thin insulation systems
 - Transparent systems


Guidelines and recommendations


- The report will be presented in the next year conferences
- First preliminary draft: End of December 2014.



COST is supported by the EU RTD Framework Programme

ESF provides the COST Office through an EC contract






European Cooperation in the field of Scientific and Technical Research

Building Integration of Solar Thermal Systems – TU1205 – BISTS

MINUTES CORSICA

- Next week WG2 members will revise the “final” version of deliverable 1.--
DONE
- 15th April submission of deliverable 1. -- **DONE**
- Mid June to send to Daniel the doi number of the published validated codes (at collector, system or building level) .--**PENDING. NEXT DATE, INCLUDING THE DRAFT: DEC. 2014**



COST is supported by the EU RTD Framework Programme

ESF provides the COST Office through an EC contract

