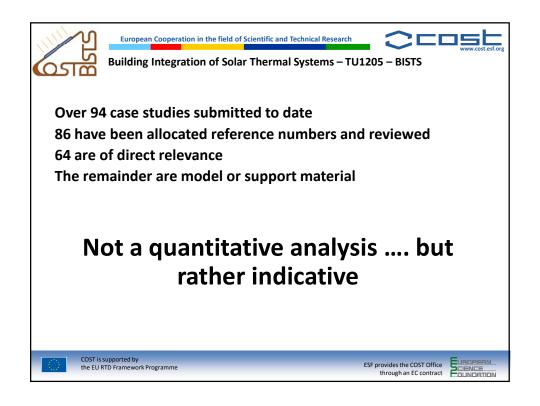
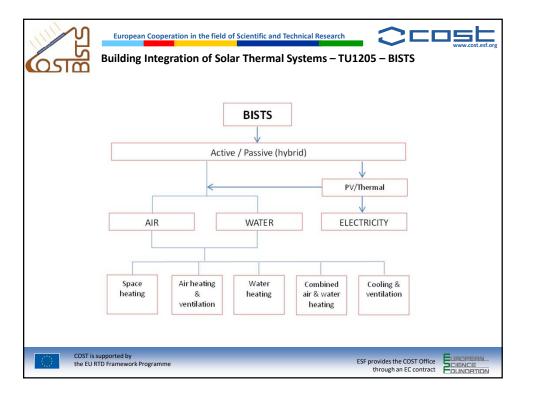


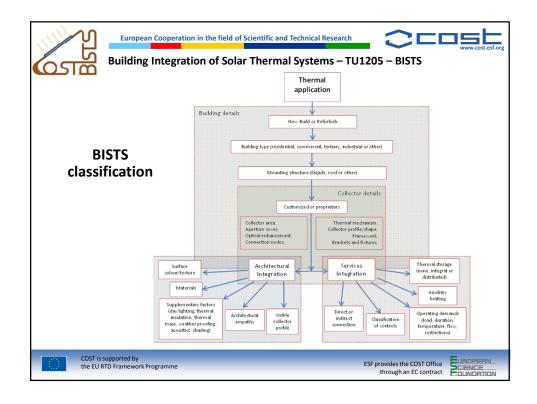
COST is supported by the EU RTD Framework Program

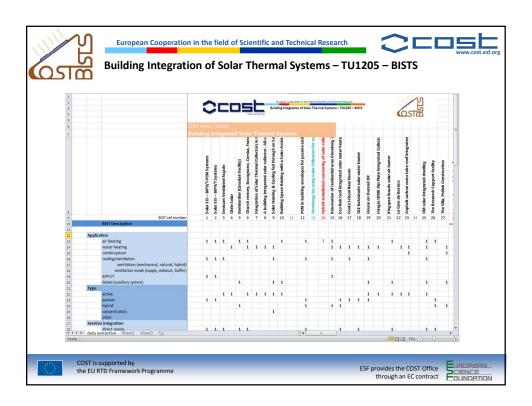


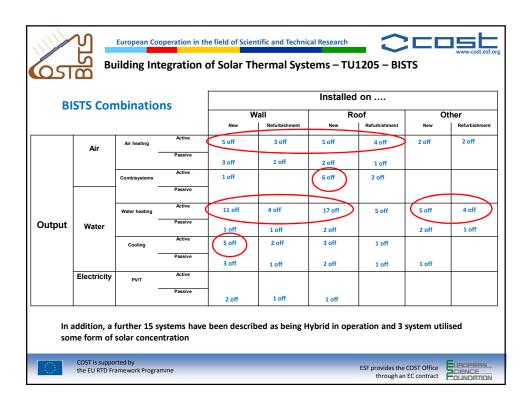
ESF provides the COST Office through an EC contract

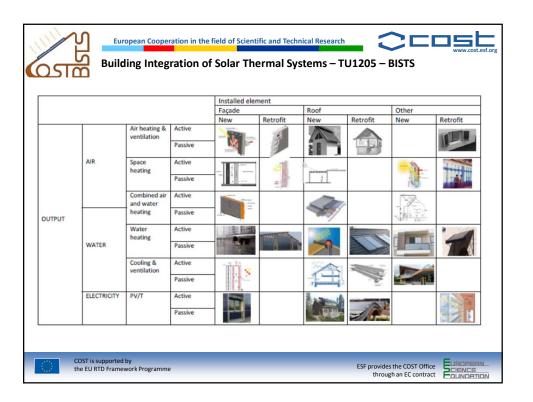


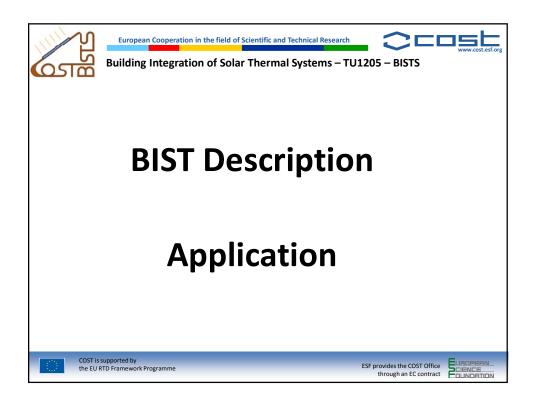


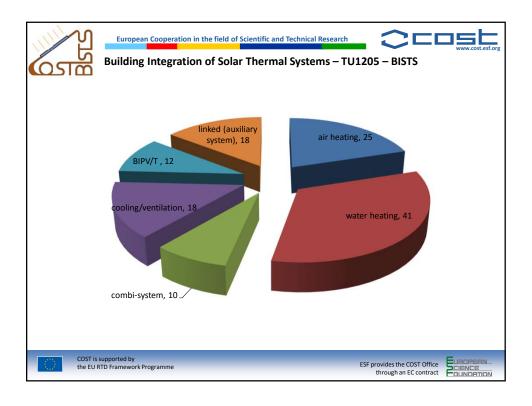


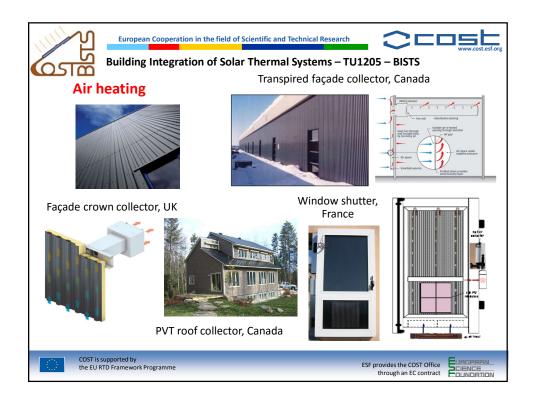


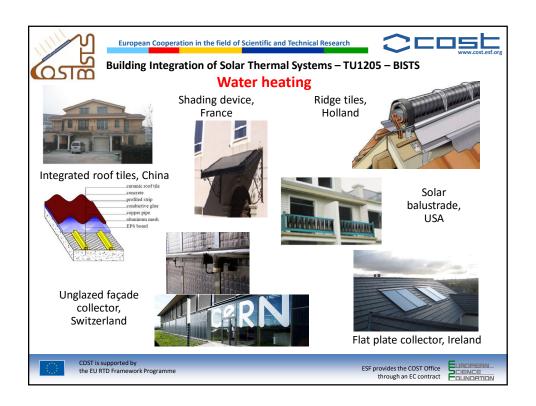




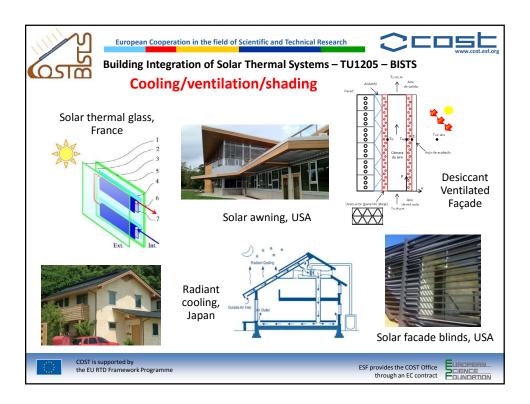


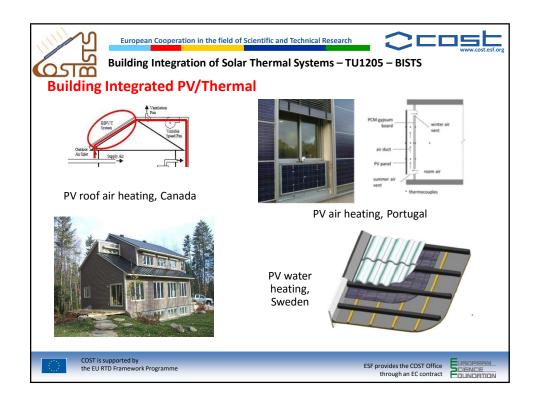


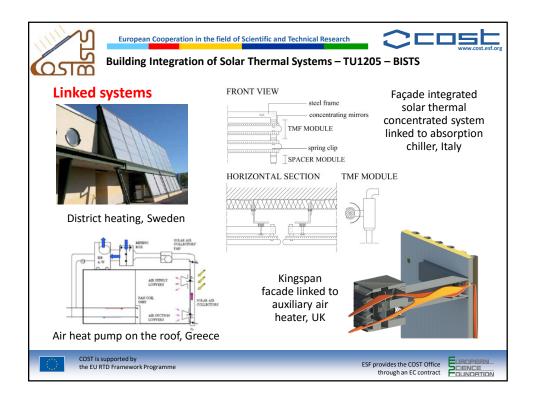


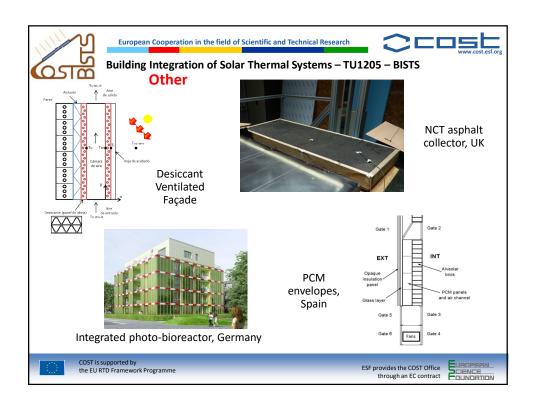


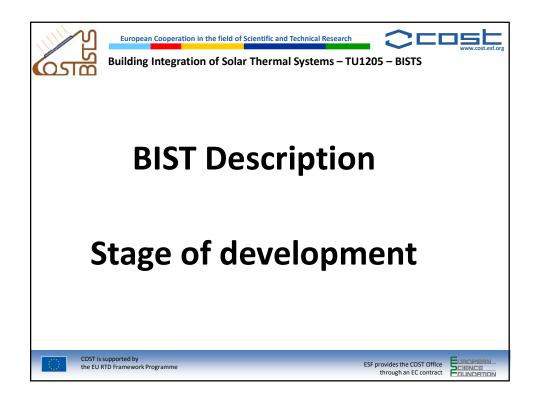


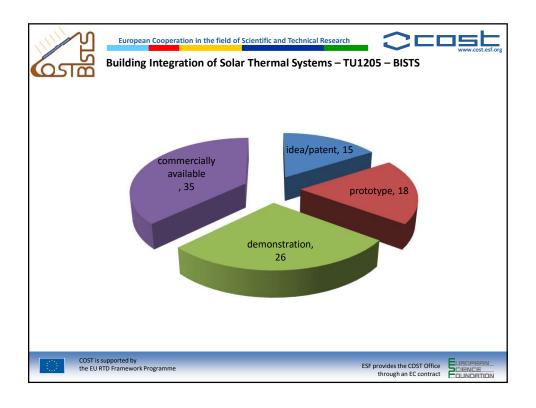


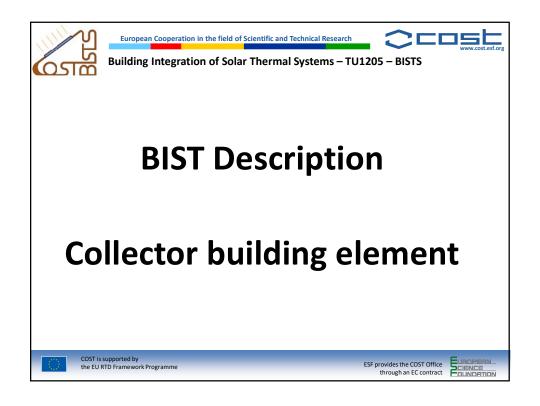


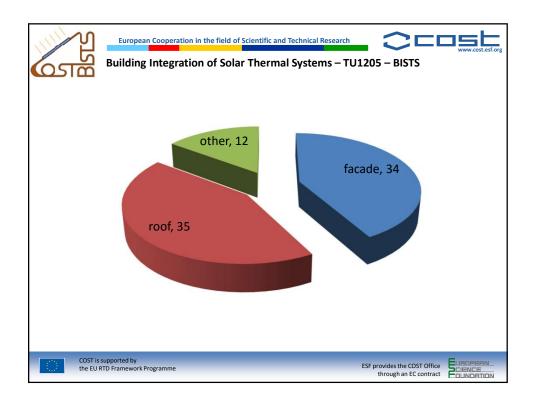




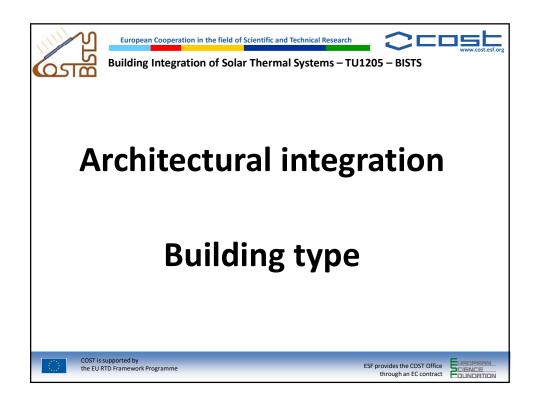


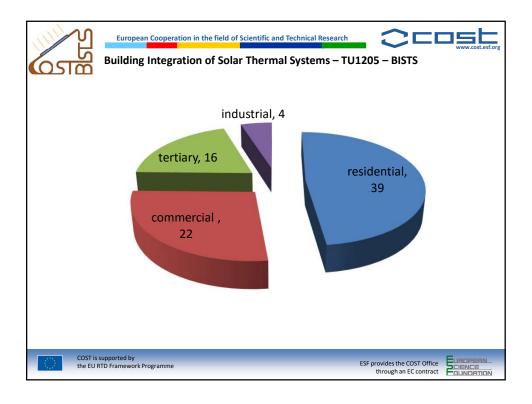


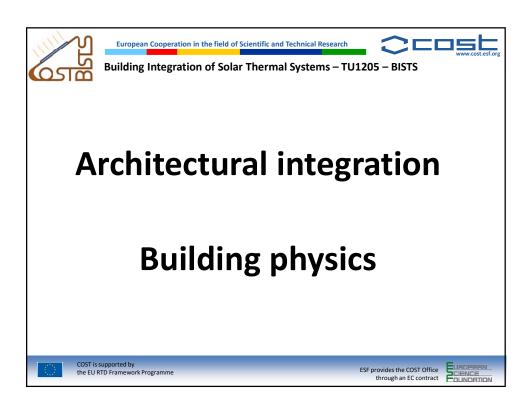


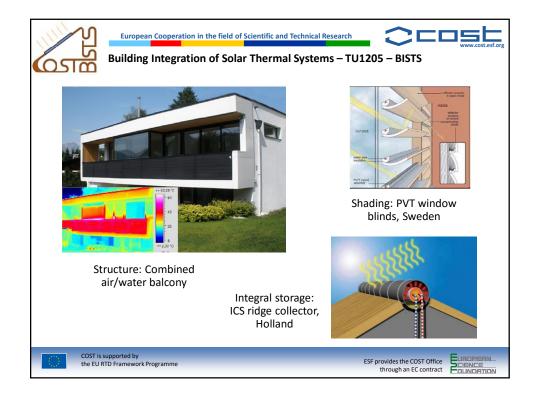


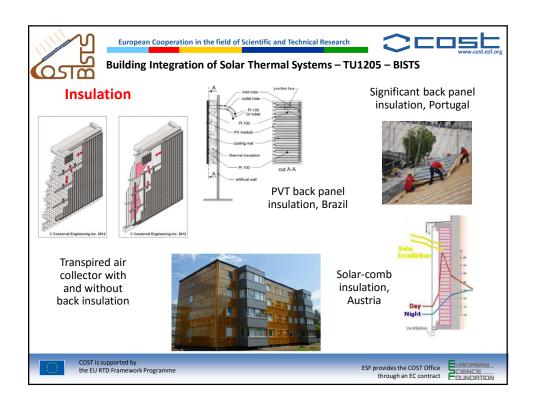


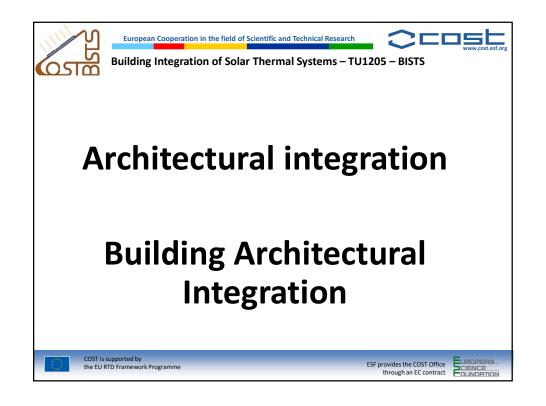




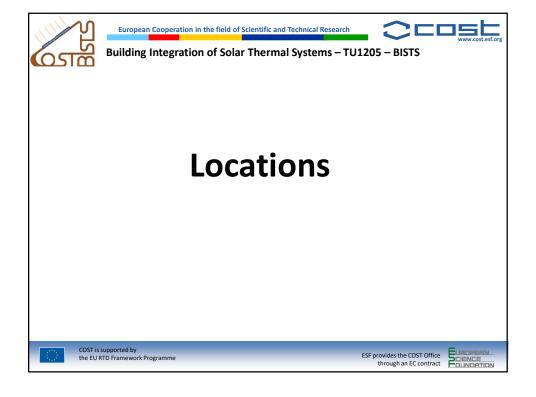


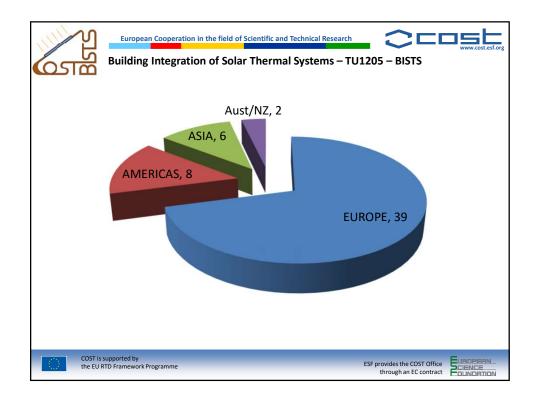


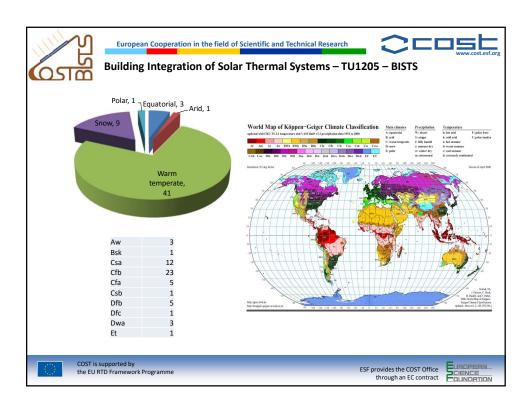


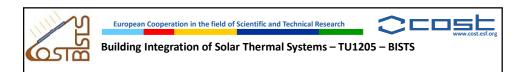






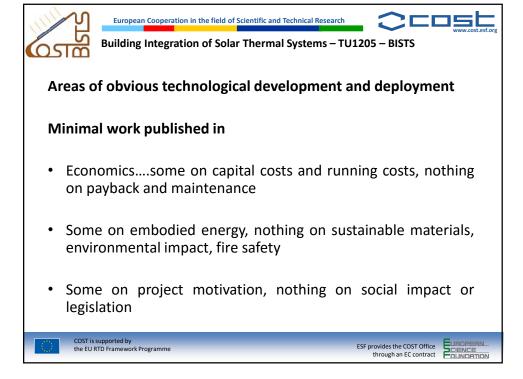


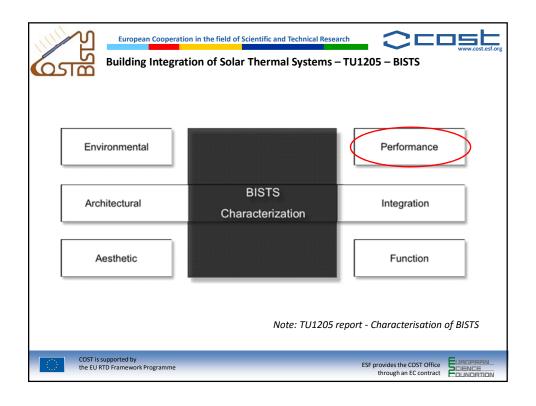


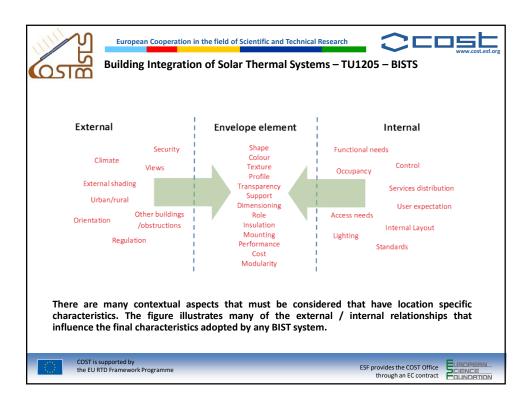


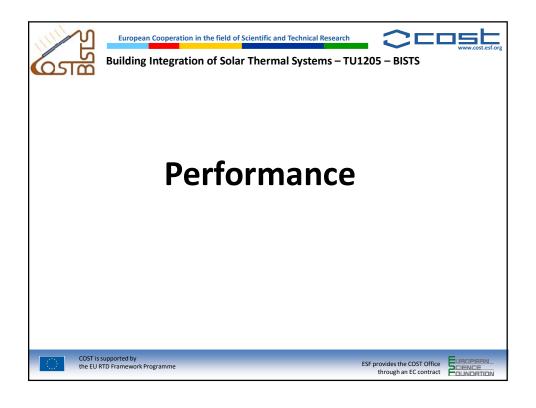
Wider considerations

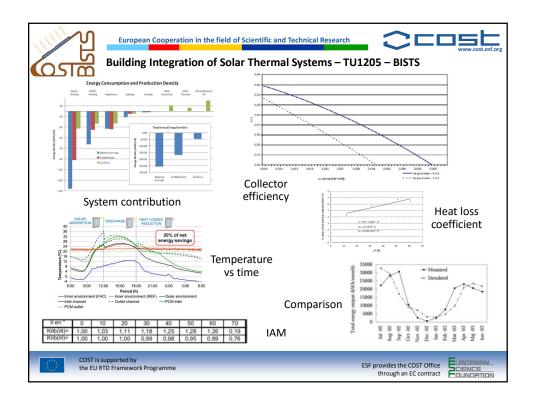


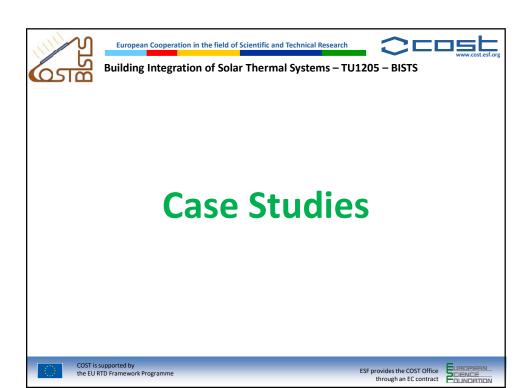


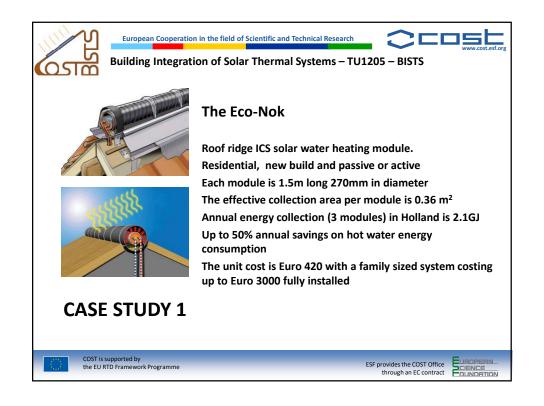


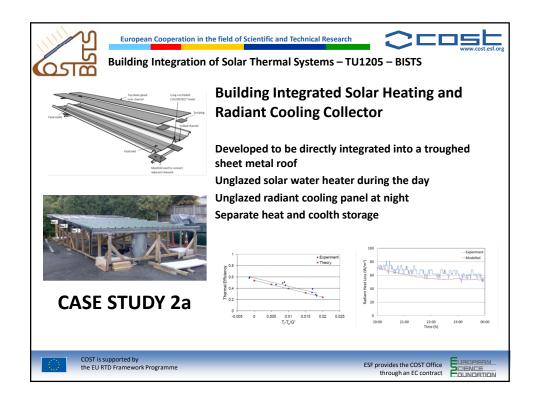


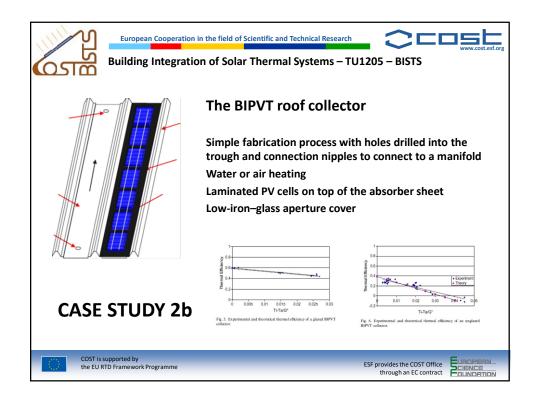


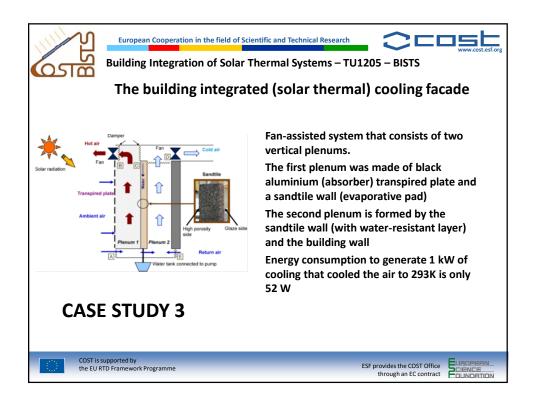


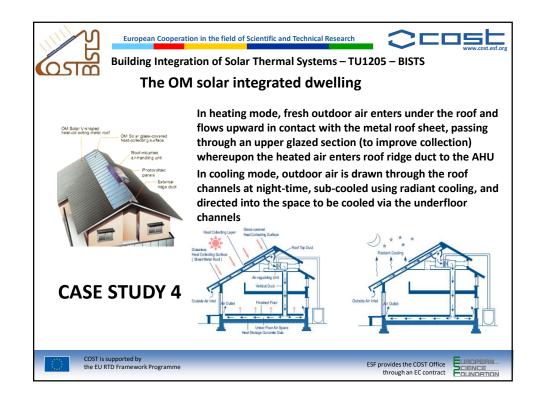










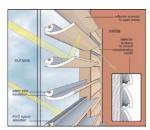




European Cooperation in the field of Scientific and Technical Research



Building Integration of Solar Thermal Systems - TU1205 - BISTS



The Solar Window

PVT Solar Window with day lighting control and additional envelope insulation

The reflectors have an optical concentration factor of 2.45

U value can be reduced from 2.8 to 1.2 $\mbox{W/m}^2\mbox{K}$ with the reflectors closed

The annual transmittance through the window is estimated to 609 kWh/m², of which 10% is PV delivery, 20% as active solar heat and 30% as net passive space heating

Production costs for the Solar Window excluding the glazing are estimated to approximately €250/m²



CASE STUDY 5

COST is supported by the EU RTD Framework Programm

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European Cooperation in the field of Scientific and Technical Research



Building Integration of Solar Thermal Systems - TU1205 - BISTS

Case Studies - observations...so far

- Wide range of interesting concepts/systems (although some repetition of the same system on different buildings)
- · Limited information
- · BIST description (generally good, less regarding the building detailing)
- Sizing procedure (minimal)
- Building physics (secondary consideration)
- Physical connection (some detailing, but minimal)
- Costs economic, environmental, social (limited)
- Performance (wide variation)
- Aesthetics (missing)
- Distribution (exclusively developed world)



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