

Unit 15 Procurements and process design

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Unit15 is the session for procurement and process design. These researches have unique point of view for sustainability. When we think about industrial ecology for building, the main point is usually how to design the building considering environment-friendly. However, in this session, the main point is how the factors other than design affect to sustainable development. The mentioned factors are, briefing process, implementation process, procurement system such as PFI, and evaluation. I think these factors as well as design of buildings have major impact on sustainable development.

One research focused on a method to grasp actual condition in on construction process. With the method they found the actual conditions and classification in construction are different from what is considered by designer. Other research focused on pre-design phase because they found the some design of building for sustainable development had to be decided during pre design phase or investment phase. This problem statement is also relevant with another research which focuses on how PFI system affects the sustainable construction. It is recognized that investment structures have major impact on sustainability. It is concluded that a stakeholder involvement method for the sustainable solution in PFI project is required. The research of demonstration project is also interesting. Its motivation is that some demonstration projects are too special for sustainable building to share their experiences and commitments in following ordinary projects. The sustainable development methods seem to have enough effect when they are applied in certain amount of cases. So how to mainstreaming the demonstration projects is important theme.

This session was a good opportunity to think about the many factors that affect sustainable development through all stage of construction.