

Project Stakeholders' Perceptions of Sustainability: A Case Example From the Turkish Construction Industry

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Abstract : Because of the raising population of world; the need for houses, buildings and infrastructures are increasing rapidly. Energy and water consumption, waste production continues to increase. If this situation of resources continues, there will be a significant loss for next generations. Therefore, there are a lot of researches and solutions developed in the world. Also sustainability criteria are collected together by some countries to serve construction industry with certification systems. Sustainable building production process's scope requires different path from traditional building production process. Moreover, the key objective of sustainable buildings is that the process includes whole life cycle duration. The process approaches from the decision of the project to the end of it; so the project team is needed from the beginning of the integrated project delivery model. Further more, by defining project team at the beginning of the project provides communication among the team members and defined problem solving and decision making methods. In this research includes the certification systems among the world to comprehend the head lines and assessment criteria. Therefore, it is understand that usually all green building criteria have the same contents. The aim of this research is to assess the sustainable project stakeholder' perceptions in Turkish construction industry from the point of occupation, job title and years of experience. Therefore, a survey is made to assess the perceptions of each attendant. In Turkey, sustainability criteria are not clearly defined; on the other hand some regulations like waste management, energy efficiency are made by legal agencies. LEED certification system is the most popular system in Turkey that has attended and certificated. From the LEED official data, it's understood that 308 project registered in Turkey. Therefore, LEED sustainability criteria are used in the survey. Head lines of LEED certification criteria; sustainable sites, water efficiency, energy and atmosphere, material and resources, indoor environmental quality, innovation and regional priority are indicated to assess the perceptions of survey participants. Moreover, only surveying of criteria are not enough; so the equipment, methods, risks and benefits also considered.

Keywords : LEED, sustainability, perceptions, stakeholders, construction, Turkey, risk, benefit

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