

Title: Sustainability achievement and estidama green building regulations in Abu Dhabi vision 2030

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Abstract: Abu Dhabi is the capital of the UAE country and one of seven cities that composed the United Arab Emirates. Abu Dhabi has a master plan for the future of the city in economic development "capital 2030" under the name of Abu Dhabi economic vision 2030 and the (Abu Dhabi Urban Planning Vision 2030). Abu Dhabi Urban planning council (UPC) drives and supports Abu Dhabi urban development strategy and transferring the vision 2030 physical settings and develops strategic development plans that create the guide principle that cascade over critical projects designed to shape the Emirate by a sustainable program under the name of "Estidama". Estidama the Arabic word of sustainability is not only a rating method or something that people do, it's a vision to achieve a new sustainable way of life in the UAE and Arab region. Estidama goal is to preserve and enrich Abu Dhabi physical and cultural identity and improving quality of life for residents in four equal pillars of sustainability: environment, economic, social and culture. The plan of Estidama in green building incorporates environmental considerations into every stage of building construction and focuses on design, construction, operation and maintenance phases. The aim of this paper is to review the Estidama pearl rating system (PRS) and to reveal how the green building system is suitable to develop and help the plan of Abu Dhabi (2030 vision). It's concluded that Estidama practice is an efficient tool in establishing the performance of residential building in the city of Abu Dhabi. Currently the research fields focus on developing a comfortable and energy efficient residential building design and also with construction sector through developing a building for the new generations.