



Sustainable Building Construction in Qatar

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What is sustainability

- Sustainability development is gaining an increased interest lately
- It improves the quality of our life
- It is a relationship between many factors such as social , environment and economy



- It is defined as the development that meets the needs of the present without comprising the needs of further generations
- In engineering , sustainability in – cooperates ethical and social issues into projects to benefit society as a whole



What is a sustainable building

The practice of creating structures and using processes that are environmentally responsible and resource - efficient throughout a building's life cycle : from sitting to design , construction , operation , maintenance , renovation , and demolition



Qatar National Vision 2030

- It addresses (5) major challenges facing Qatar :
 - Modernization and preservation of traditions
 - Needs of this generation and the needs of future generations
 - Managed growth and uncontrolled expansion
 - Size and the quality of the expatriate labour force and the selected path of development
 - Economic growth , social development , and environmental management
 - First strategic initiative for the years (2011- 2016) is on schedule



Existing projects rating systems in Qatar

- Different rating systems exist world wide
- No governing laws exist in this regard in Qatar yet
- Rating systems are not covered in Qatari codes
- Qatari market still open for any competitive rating system
- Leed and GORD used in Qatar
- Qatar foundation uses LEED for their projects
- Barwa and Qatari Diar use GORD for their projects
- MOU between Barwa Qatari Diar research institute and Ashghal was signed to in - cooperate GORD rating system in Ashghal projects



Challenges facing sustainable building construction In Qatar

▪ Design Challenges

- Planning and design should be thorough (holistic view)
- They suppose not to have any particular look or style ,but related to culture
- They do not have to cost more or more complicated than traditional construction
- Have integrated design , where each component is part of greater whole
- minimize energy consumption and promote human health
- In general , sustainable buildings must have aesthetic ,environmental , social ,political and moral values



Challenges facing sustainable buildings construction In Qatar .

■ Construction challenges

- Using best construction practices
- Using best materials which have less impact on the environment
- Minimize construction waste as much as possible .



Conclusion

- Sustainability is here to stay
- Sustainability is our responsibility
- public awareness is of a must
- Rules and regulations are of a must
- Best practices in design and construction will lead to sustainability

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Thank you

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