

Title: Low-carbon building towards combating Climate Change and meeting the UN`s Sustainable Development Goals

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The signing of the Paris Agreement was a highligth in the tackle against climate change. Buildings are responsible for around 30% of global energy consumption and the associated greenhouse gas (GHG) emissions, therefore without shadow of a doubt the construction sector is crutial for ensuring the target of global temperature rise stays below 2 degree.
Taking action on buildings in order to achieve energy and carbon efficiency is one of the most effective ways of reducing global emissions and pollution, in accordance with Circular Economy`s principles. Furthermore, net-zero energy and net-zero carbon buildings (low-carbon buildings) offer significant opportunities in terms of economic, social and environmental development, matching the triplle bottom line to the UN`s Sustainable Development Goals (SDGs). This framework designed to promote sustainable development between 2015 and 2030 is composed of 17 Sustainable Development Goals and 169 Targets under the umbrella of United Nations Global Compact.
These goals are a challenge for humanity to decouple, amongst others, economic growth from climate change and low-carbon buildings (green buildings) can help to address it.
Although they are interrelated, the most direcly SDGs involved with green buildings issues are: Good Health & Wellbeing (Goal 3), Affordable & Clean Energy (Goal 7), Decent Work & Economic Growth (Goal 8), Industry, Innovation & Infrastructure (Goal 9), Sustainable Cities & Communities (Goal 11), Responsible Consumption & Production (Goal 12), Climate Action (Goal 13), Life on Land (Goal 15) and Partnerships for the Goals (Goal 17).

Biography

Carlos Oliveira Augusto (Ba, MSc) is a researcher, teacher and ecopreneur with background in Civil Engineering, Architecture and Management. He is the CEO & Founder of FACTOR4Sustainability, an innovative company specialized in Sustainability, Circular Economy and Sustainable Construction. He has co-organized and launched in 2017 the first post-graduated course on Circular Economy in Portugal and has published in several proceedings and jounals. Together with CITAD and the Portuguese Agency for Science, Research and Technology (FCT) has launched a book on Sustainble Construction. He is Ambassador of Alliance SDGs Portugal with special focus on Goal 9: Industry, Innovation & Infrastructure.

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