

## **Challenge of Net-Zero Carbon Construction and Measurement of Energy Consumption and Carbon Emission Reduction to Climate Change, Economy and Job Growths in Hong Kong and Australia**

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**Abstract :** The Paris Agreement 2015 addressed climate change and its negative impacts. The agreement aims to substantially reduce global greenhouse gas (GHG) emissions to limit the global temperature increase in this century to 2 degrees Celsius above pre-industrial levels. The 26th United Nations Climate Change Conference (COP26) was held in Glasgow in 2021. In the Submit, all countries agreed to the Glasgow Climate Pact to keep 1.5 degrees and finalized the outstanding elements of the Paris Agreement. The basic approach of waste strategy, recycling policy, circular economy strategy, net-zero strategy and sustainability strategy will be discussed. Different researchers defined the waste strategy as to provide the capacity to handle the waste as a primary approach, and recycling policy is to manage the waste resources in a more efficient way, circular economy strategy is to minimize waste and maximize their value, net-zero strategy is the action to take for carbon neutrality and finally, sustainability is to achieve longevity without impact to the environment and our planet. In this paper, a more holistic study of the importance of the basic factors in terms of carbon emission, waste generation and conservation of energy will be critically and systematically reviewed and analyzed. Recommendations based on the finding can provide further research and future discussion for different stakeholders in the industry.

**Keywords :** net-zero carbon, climate change, carbon emission, energy consumption

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