

عنوان مقاله:

Reviewing the zero carbon retrofitting approaches and policies

محل انتشار:

سیزدهمین کنگره بین المللی مهندسی عمران (سال: 1402)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Global warming is a worldwide problem today, which is a direct result of human activities. Carbon, as a greenhouse gas, plays an important role in global warming, and its reduction is on the agenda of many countries. According to previous research, buildings play an important role in consuming energy and emitting carbon worldwide. New zero carbon buildings make a small contribution to global carbon reduction; meanwhile, existing buildings provide a unique opportunity to move towards sustainable construction. Retrofitting existing buildings in a way that they become zero carbon is the main goal of this research. In this research, the policies of different countries in relation to zero carbon buildings, and methods of retrofitting existing buildings and separating building energy systems from fossil fuel consumption are studied. Also, this research reviews works in relevant fields and usage of smart tools in retrofitting of existing buildings.

کلمات کلیدی:

.Zero Carbon Buildings, Sustainable Development, Retrofit, Life cycle assessment

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