



Carbon Emissions of Mega-Level Complexes by Life Cycle Power Assay

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Abstract

With the propulsive force of urbanization and industrialization, the annual increase of the built-up area in China has been over 1.6 billion square meters in recent years. The enormous newly-built building takes huge steel production of China constituting more than 30%. The building area is closely bound up with the increase of related energy consumption and the process of urbanization. There is a large gap between rural and urban living standard in China, and rural per capita energy consumption is far smaller than that of the urban area. With the urbanization, Chinese family structure will become miniaturized, which will result in the soaring demand of city residential, commercial buildings and public buildings, and expansion of urban building area, energy consumption and carbon dioxide emissions.

Keywords: Carbon emissions; mega-level complexes; life cycle; power assay