

Library renovation Chengdu, China

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1 ABSTRACT

Purpose of the report is the optimization of the Chengdu university library reaching energy aims of mission 2020. The main focus of the project is sustainability and locally adapted solutions in Sichuan province according to Danish reference and international project team (Slovakia, Brazil). The qualitative method was used to analyze the historical background and the latest key events: Sichuan earthquake, Olympic Games, both in 2008, and Shanghai Expo in 2010. The results showed the need for: indoor climate improvement in terms of light, ventilation, sound and general welfare, new book preservation method and change of local climate in campus. The suggested recommendations were based on small scale” applicable concepts and regional natural elements: stack ventilation concept, heat pump, fiber lightning cables, lake water self-cleaning method and also intelligent complex library system. In conclusion, the above mentioned solutions can significantly decrease the energy consumption for 2020 in Chengdu university library, however, currently there is a lack of labor and manufacturers skilled in sustainable approach.