SMART CITIES-CLEAN ENERGY PROJECT: LESSONS LEARNED TOWARDS DEVELOPMENT OF KPIS FOR SMART SUSTAINABLE CITIES IN THAILAND

The Smart Cities-Clean Energy Project was initiated by the Ministry of Energy, Thailand in 2016, with the intention of supporting city stakeholders in creating a green value chain. The Thai Green Building Institute was given the authorization to manage the project. It is a competition with a focus on smart city design and business model under certain criteria. Juries determined if the criteria had been met. The competition criteria covered eight categories: Smart Energy, Smart Mobility, Smart Community, Smart Environment, Smart Economy, Smart Building, Smart Governance and Smart Innovation. In addition to the main criteria, there were sub-criteria measures used to evaluate the submitted projects. The lessons learned from the competition and the results were valuable and should be shared for future reference and the development of future, smart, sustainable cities in Thailand.

In total, 36 cities submitted from which only six teams were awarded: Chulalongkorn University, Chiangmai University, Thammasart University, NIDA, Khonkan Smart City and Whizdom 101.

The objectives of this paper were to collect data, to compare and assess the Key Performance Indicators (KPIs) of the six winning teams. Based on the results, new KPIs will be proposed for future use. In addition the processes of implementation and management were also reviewed. It is the hope that the case studies of the six selected cities are good examples from which to develop existing and new cities in Thailand.

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