The building structure resembles the appearance of pine, with its growing height and extension of branches. Inspired by the Kowloon City Castle, the proposed neighbourhood accommodates a dense population in a pleasant and open environment. It encourages the interaction between not only between the elderlies and children, but also among the neighbours.

During summer, the cool wind enters the building, it rises and leaves as hot air. In winter, the hot air is trapped by a retractable roof to provide a warmer environment to the building.

The food waste undergoes anaerobic digestion in the fermentation tank to produce methane gas. The Piezoelectric flooring energy harvester by using footstep system is installed in the dance studio. It utilises the kinetic energy of human movement to generate electricity for the building use.

The daylighting system allows sunlight to penetrate into the underground shopping mall to create a relaxing atmosphere. The ventilation system designed with flexibility for occupants’ use, while recreational areas were bridged to different locations to connect people; imitating the rooftop in Kowloon City Castle, where neighbours gathered and played. Besides the building structure, the urban stream and greenery also encourages people to spend more time outdoor and cycle around the neighbourhood. Renewable energy system and passive sustainable designs were integrated with the state-of-the-art technology. We want to create a neighbourhood where people enjoy staying here.

Our team consists of 8 people from various background and disciplines, but we are all passionate in constructing a sustainable city. One person cannot reach the goal so we gather our expertise in different streams, including engineering, architecture, geology, media design and language, in order to formulate a cutting-edge model for a sustainable neighbourhood, Kowloon City Castle 2.0. It is opportune for us to join together and enrich the model with our innovative ideas in multi-perspective. We hope to contribute our skills to present a versatile and energetic community, which helps to foster the bonding of Hong Kong people.