

PROJECT ABSTRACTS

Project Title: Breeze Nexus

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Course: ARCH DSGN II

Studio Brief Title: Urban Incubators

Full Project Narrative/Text Description (200 words max.):

Breeze Nexus is a mixed- use sustainable community mall and housing project at Bangkok's Sermsuk Warehouse that merges traditional Thai and modern architectural elements to address urban climate challenges, and also extend green space in this area. Inspired by the Cairo Courtyard House, the design incorporates passive cooling strategies such as garden, mashrabiya-style balconies, and ventilation channels, along with Thailand's tropical climate. Thai patterns, integrated into balconies, windows, doors, and partitions, which are specific to each pattern, provide aesthetic and cultural resonance while optimizing airflow and shade.

Situated in a densely populated area surrounded by malls, buildings, and limited green space, the project proposes an alternative concept that integrates urban development with nature. It extends the adjacent riverside park, creating a green corridor that blends seamlessly into the site's design. Public access is prioritized with features like a multipurpose area that connects to the pier, landscaped garden, market, and a terraced pond at the center, which serves as a cool retreat and community space, enhanced by evaporative cooling.

Housing units are grouped into clusters of 4-5, each featuring rooftop communal gardens connected by pathways and elevators. The lower level serves as the mall, while the upper level houses residential units, optimizing land use while blending public and private spaces.

The wave-like, irregular façade reflects the unpredictable shapes of wind, directing airflow to enhance ventilation and thermal comfort. It also resembles tree roots, symbolizing the extension of green spaces. Using sustainable materials like engineered timber, the project merges nature with modernity, redefining urban living.