The Architecture responds to the idea of a pixelated city. A city where the exchange of ideas happens everywhere. A new landscape flows over the tiered building surfaces and penetrates the interior. The primary form is disrupted by carving out the façade of the public spaces that glue the building together, displaying them to the city. This is reminiscent of the banyan trees that live off the walls of the city and bind them together.
The pixelation of the built form is echoed in the landscape design language and continues and the theme across roofscapes, gardens and vertical planting.

The landscaped spaces represent a context responsive design that is embedded within and through the landmark architecture and into the surrounding locality. The boundary between indoor and outdoor space is blurred, creating a dynamic environment for learning, social interaction and habitation.
PIXELATED CAMPUS

The architecture is designed from the inside out and outside in, it responds to the idea of a Pixelated City.

1. ESTABLISHING THE DATUM
2. PIXELATE
3. PROGRAMISE
4. PUSH AND PULL
5. THE INTERNAL STREETS
6. PHASING

NET ZERO ENERGY
Climate-Conscious Design

INDOOR ENVIRONMENTAL QUALITY
Design for Comfort

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Design for Comfort

HEALTH & WELL-BEING
Social Impact

NATURAL SITE WATER STRATEGY
Low-Impact Development

SUSTAINABLE MATERIALS
Responsible Resource Use

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Responsible Resource Use
NET ZERO ENERGY

Intent
Strive for a goal of Net Zero Energy Campus through climate-adaptive, efficient technologies and offset through on-site regenerative vegetations.

Achievement Targets
WELL Community – Platinum Level
BEAM Plus Neighborhood – Platinum Level

Value Proposition
- Demonstrate Institutional Leadership and Identity by Leading the First WELL Community Project in Hong Kong
- Create a Happy, Productive, & Inclusive Environment
- Support Physical, Cognitive & Emotional Well-Being through Evidence-Based Design Interventions
- Promote Environmentally Conscious Design
- Maximize Occupant Satisfaction
- Use Less Energy, Water, and Resources
- Develop Resilience Responsive to Health Risks, Advances in Technologies & Changing Climate

Impact & Benefits
- Achieve a Net Zero Energy Campus with solar energy, supported by on-site regenerative vegetations as carbon sink and HKU’s Carbon Offset Program
- Generate 10% of total energy needs from solar technologies
- Target 20% reduction in energy use intensity
- Optimized design leads to 70% better performance than comparable university facilities

Design Strategies
- Maximize passive design opportunities
- Solar-Powered Campus
- Climate-Adaptive Technologies

SOLAR-POWERED CAMPUS
- Dual-purpose rooftop solar panel
  - 6% annual energy production from two tall rooftops
  - 100% solar-powered outdoor lighting
  - Solar-facades

ENERGY EFFICIENCY
- Eco-corridor as “Light Shelf”
  - Integrated daylight sensor
  - Workstation 7-8 feet from window
  - Light colour carpet along window
  - Mechanical shading with sensor Energy Modelling
  - 15% reduction in energy use intensity with Optimized Design
1. Gym/Sports Hall (Phase 1)  
   (Pool at lower level)
2. Classrooms
3. Multi-Function Room
4. Internal Street
5. Sports Hall (Phase 3)
6. Residential Tower A - Long Term
7. Residential Tower B - Short Term
8. Breakout Space
9. Case Study/Lecture Theatre
10. Campus Heart
11. Computer Lab
12. Offices
13. Main Entrance