



UI GreenMetric Questionnaire

University : SONGKHLA RAJABHAT UNIVERSITY
Country : Thailand
Web Address : www.skru.ac.th

[2] Energy and Climate Change (EC)

[2.9] Elements of Green Building Implementation as Reflected in All Buildings (EC.6)

Faculty of Education Building No.68



Faculty of Science and Technology Building No.73



Faculty of Management Sciences Building No.66



Faculty of Industrial Technology Building No.74





Office of Academic Resources and Information Technology Building No.59



GBI Non-Residential Existing Building	Building No.48	Building No.68	Building No.73	Building No.66	Building No.74	Building No.59
Element 1. Energy Efficiency						
Design & Performance						
Minimum EE Performance	✓	✓	✓	✓	✓	✓
Lighting	✓	✓	✓	✓	✓	✓
Electrical Sub-metering	✓	✓	✓	✓	✓	✓
Renewable Energy	✓	✓			✓	✓
Advanced or Improved EE Performance – BEI						
Commissioning						
Enhanced or Re-						
On-going Post Occupancy Commissioning						
Monitoring, Improvement & Maintenance						
EE Monitoring & Improvement	✓	✓	✓	✓	✓	✓
Sustainable Maintenance						



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Element 2. Indoor Environmental Quality						
Air Quality						
Minimum IAQ Performance						
Environmental Tobacco Smoke (ETS) Control	✓	✓	✓	✓	✓	✓
Carbon Dioxide Monitoring and Control						
Indoor Air Pollutants						
Mould Prevention						
Thermal Comfort						
Thermal Comfort: Controllability of Systems	✓	✓	✓	✓	✓	✓
Air Change Effectiveness	✓	✓	✓	✓	✓	✓
Lighting, Visual & Acoustic Comfort						
Daylighting	✓	✓	✓	✓	✓	✓
Daylight Glare Control	✓	✓	✓	✓	✓	✓
Electric Lighting Levels	✓	✓	✓	✓	✓	✓
High Frequency Ballasts						
External Views	✓	✓	✓	✓	✓	✓
Internal Noise	✓	✓	✓	✓	✓	✓
Verification						
IAQ Before/During Occupancy	✓	✓	✓	✓	✓	✓



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Occupancy Comfort Survey: Verification	✓	✓	✓	✓	✓	✓
Element 3. Sustainable Site Planning & Management						
Facility Management						
GBI Rated Design & Construction						
Building Exterior Management	✓	✓	✓	✓	✓	✓
Integrated Pest Management, Erosion Control & Landscape Management	✓	✓	✓	✓	✓	✓
Transportation						
Green Vehicle Priority - Low Emitting & Fuel Efficient Vehicles	✓	✓	✓	✓	✓	✓
Parking Capacity	✓	✓	✓	✓	✓	✓
Reduce Heat Island Effect						
Greenery & Roof	✓	✓	✓	✓	✓	✓
Building User Manual	✓	✓	✓	✓	✓	✓
Element 4. Materials & Resources						
Reused & Recycled Materials						
Materials Reuse and Selection	✓	✓	✓	✓	✓	✓
Recycled Content Materials	✓				✓	
Sustainable Materials & Resources and Policy						
Sustainable Timber						
Sustainable Purchasing Policy	✓	✓	✓	✓	✓	✓



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Waste Management						
Storage, Collection & Disposal of Recyclables	✓	✓	✓	✓	✓	✓
Green Products						
Refrigerants & Clean Agents	✓	✓	✓	✓	✓	✓
Element 5. Water Efficiency						
Water Harvesting & Recycling						
Rainwater Harvesting	✓	✓	✓	✓	✓	✓
Water Recycling						
Increased Efficiency						
Water Efficient - Irrigation/Landscaping	✓	✓	✓	✓	✓	✓
Water Efficient Fittings	✓	✓	✓	✓	✓	✓
Metering & Leak Detection System	✓	✓	✓	✓	✓	✓
Element 6. Innovation						
Innovation & Environmental Initiatives	✓		✓		✓	
Green Building Index Facilitator	✓	✓	✓	✓	✓	✓

Description:

Executive Summary: GBI Green Building Assessment Report Objective: To summarize the sustainability performance of 6 portfolio buildings (Buildings No. 48, 68, 73, 66, 74, 59) based on the Green Building Index (GBI) for Non-Residential Existing Buildings, aligning with corporate Net Zero and ESG strategies.

1. Key Findings

- **Baseline Excellence:** All 6 properties demonstrate exceptional compliance with standard green criteria. Notably, they achieved a 100% pass rate in **Indoor Environmental Quality (IEQ), Sustainable Site**



Planning & Management, and Water Efficiency. This reflects robust existing operations in climate control, landscaping, and water conservation.

- **Strategic Gaps:** Portfolio-wide opportunities for improvement include the implementation of Water Recycling systems, Sustainable Timber sourcing, and Advanced Energy Performance monitoring/Enhanced Commissioning.

2. Building Performance Portfolio Analysis The assets have been categorized into three distinct strategic groups based on their sustainability competitiveness:

- **Sustainability Leaders — Building No. 48 & 74:**
 - **No. 48:** The top-performing asset, displaying comprehensive strength across all advanced metrics, including Renewable Energy integration, Recycled Content utilization, and Environmental Innovation.
 - **No. 74:** Demonstrates strong performance in renewable energy and innovation, but requires immediate attention to rectify the lack of Electrical Sub-metering.
- **Renewable Energy Adopters — Building No. 68 & 59:**
 - Both buildings have successfully integrated Renewable Energy but currently lack credits in Recycled Content Materials and advanced Environmental Initiatives.
- **Baseline Performers — Building No. 73 & 66:**
 - **No. 73:** Lacks renewable energy capabilities but shows proactive engagement through Environmental Innovation initiatives.
 - **No. 66:** Fully compliant with all baseline standards but has yet to adopt advanced renewable technologies or high-level innovation.