



Achieving Sustainability in UN Common Premises

BOS 2.0 High-Impact Common Services



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Agenda

- ▶ Intro & High-Impact Services
- ▶ Sustainable UN-Facilities 'IDEAS' - UNEP
- ▶ Sustainable Journey of Green One UN House in Viet Nam
- ▶ Open discussion & Q&A

High Impact Common Services



Leveraging Efficiencies & Impact

Create **proof of concept** to scale change, good practices, & resources by partnering with private & social orgs.

Disability Inclusion

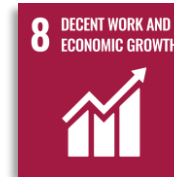
- Physical Accessibility
- Inclusive HR
- ICT/Digital Accessibility

Green & Renewable Energy

- Energy Mgt., Monitoring & Consumption
- Assessment & Business Case
- Solar Solutions (Home, Street, H2O)

Gender Inclusive Operations

- Supporting Women Owned Businesses
- Gender Equity & Staff Wellbeing
- Gender Responsive Procurement



PROOF OF CONCEPT RENEWABLE ENERGY & DISABILITY INCLUSION

Business Cases for renewable energy in UN Premises

1. Facilitate implementation with real data & IoT devices
2. Reduce CO2 footprint, increase energy efficiency, reliability
3. Pilot UNCTs:
AFR: Ghana, Lesotho, Namibia, Nigeria, South Sudan, Zambia, Zimbabwe;
LAC: Haiti
AS: Lebanon
ECA: Kazakhstan, Kyrgyzstan, Turkmenistan



Disability Inclusion Seed Funding

1. Seed funding to UNCTs to advance UNDIS & make operations inclusive
2. Create **inclusive HR practices** with accessible premises & digital tools
3. Pilot UNCTs:
AFR Lesotho, Namibia, Nigeria, Sao Tome & Principe
APA: Indonesia, Iran, Nepal, Fiji
AS: Lebanon
ECA: Albania, Montenegro, Tajikistan
LAC: Costa Rica, Dominican Republic, Guatemala, Uruguay

Greening UN Common Premises: Viet Nam's Green One UN House journey in attaining certifications & standards of environmental performance



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VGBC | Vietnam Green
Building Council



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THE GREEN ONE UN HOUSE, VIETNAM

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IDEAs for Resilient and Efficient UN Offices



The Green One UN House in Viet Nam
Sustainable Journey to LOTUS PLATINUM



Green Efficiency Results and Lesson's
Learned



THE GREEN ONE UN HOUSE, VIETNAM



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Sustainable UN facility's 'IDEAS' FOR ESTABLISHMENT OF RESILIENT AND EFFICIENT UN OFFICES

Sustainable United Nations (SUN)

Sustainable UN (SUN) is an initiative of UNEP launched in 2008 to assist UN system to reform towards climate neutrality and environmental management...

...with tools, methodologies and technical assistance to enable the integration of sustainable development principles by:

MEASURING their environmental performance

REDUCING their environmental impacts

OFFSETTING their unavoidable greenhouse gas emissions

REPORT and COMMUNICATE via Greening the Blue

Focuses on mitigating the environmental footprint resulting from facilities and operations



**GREENING
THE
BLUE**

UN 
environment
programme



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Greening the Blue Report 2021



UNEP annually publishes environmental impact data in the **Greening the Blue Report: the UN system's environmental footprint and efforts to reduce it**

The Report reflects the progress of the **Strategy for Sustainability Management in the United Nations System 2020-2030, Phase I: Environmental Sustainability in the Area of Management**



**GREENING
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BLUE**

UN environment
programme



Greening the Blue Report 2021

In 2020, the UN system generated **~1.5 million tonnes CO₂eq GHG emissions**, with per capita emissions of 5 tonnes CO₂eq

The sources of the emissions were **32%** from air travel, 12 per cent from other travel (rail, road, sea, etc.) 55% from facilities

19% of UN electricity worldwide came from the use of renewable energies either purchased from the country grid or self-generated

99%

of the UN system's reported 2020 greenhouse gas emissions are offset



**GREENING
THE
BLUE**

UN 
environment
programme



Events

- Virtual and hybrid meetings and events to reduce travel and increase inclusiveness
- Green events tool to reduce impact from for in person meetings

CERTIFICATIONS AND RATINGS

For events evaluated by GET, sustainability aspects are translated into measurable scoring criteria that define the overall sustainability score of the event. Organizations using GET can calculate their overall score and declare it as a testament of their commitment to environmental sustainability. For wider awareness, the report can be submitted to the certification team for a third-party verification. Once the

verification is complete, GET can generate the certification through the platform and publish. Depending on the overall achievement of the event, three different ratings (Bronze, Silver and Gold) can be achieved by organizations through GET. Depending upon the level of offsetting carried out from recognized GHG programs, the event can receive the 'carbon efficient' or 'carbon neutral' certification.



<https://greeneventstool.com/>

IDEAs



Environmental Sustainability when
Establishing a New UN Office Premises



What is IDEAS? Why this is important?



Use of UN benchmark standards X
independent, third-party certification





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**THE GREEN ONE UN HOUSE
SUSTAINABLE JOURNEY TO
LOTUS PLATINUM**

VIET NAM GREEN ONE UN HOUSE BACKGROUND

- ✓ *Delivering as One (one of the pillars): Establish a UN Common Premise*
- ✓ *Full support from the local Government*
- ✓ *Product of the UNCT in Vietnam vision to create a shared 'green' premises and to support the UN-wide, 'delivering as one', initiative*
- ✓ *Inaugurated on May 2015 by UN SG and Vietnam's Deputy Prime Minister and Foreign Minister*
- ✓ *Early considerations towards a Green Building design and construction*

BENEFITS

- Financial benefits
- Non-financial benefits
- Sustainable development

OCCUPANT WELLNESS

- Indoor air quality
- Natural lighting
- Visual comfort



THE GREEN ONE UN HOUSE, VIETNAM



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CERTIFICATIONS & STANDARDS OF ENVIRONMENTAL PERFORMANCE ACHIEVED



2014



2017-2023



2017-2022



2018



2021



2022-2025



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WORLDWIDE CERTIFICATION SYSTEMS



WORLD
GREEN
BUILDING
COUNCIL

ASIA-PACIFIC
REGIONAL
NETWORK



VGBC | Vietnam Green
Building Council
-ội đồng Công trình xanh Việt Nam

WHAT IS A GREEN BUILDING CERTIFICATION SYSTEM AND WHY THIS IS IMPORTANT?



It is rating systems used to assess a building performance from a sustainability and environmental perspective.



Promotes the UN Sustainable Development Goals (SDG's)



Considers approved and agreed benchmarking on building performance



Third party verification of environmental credentials



Encouraging integrated building design, construction and operation



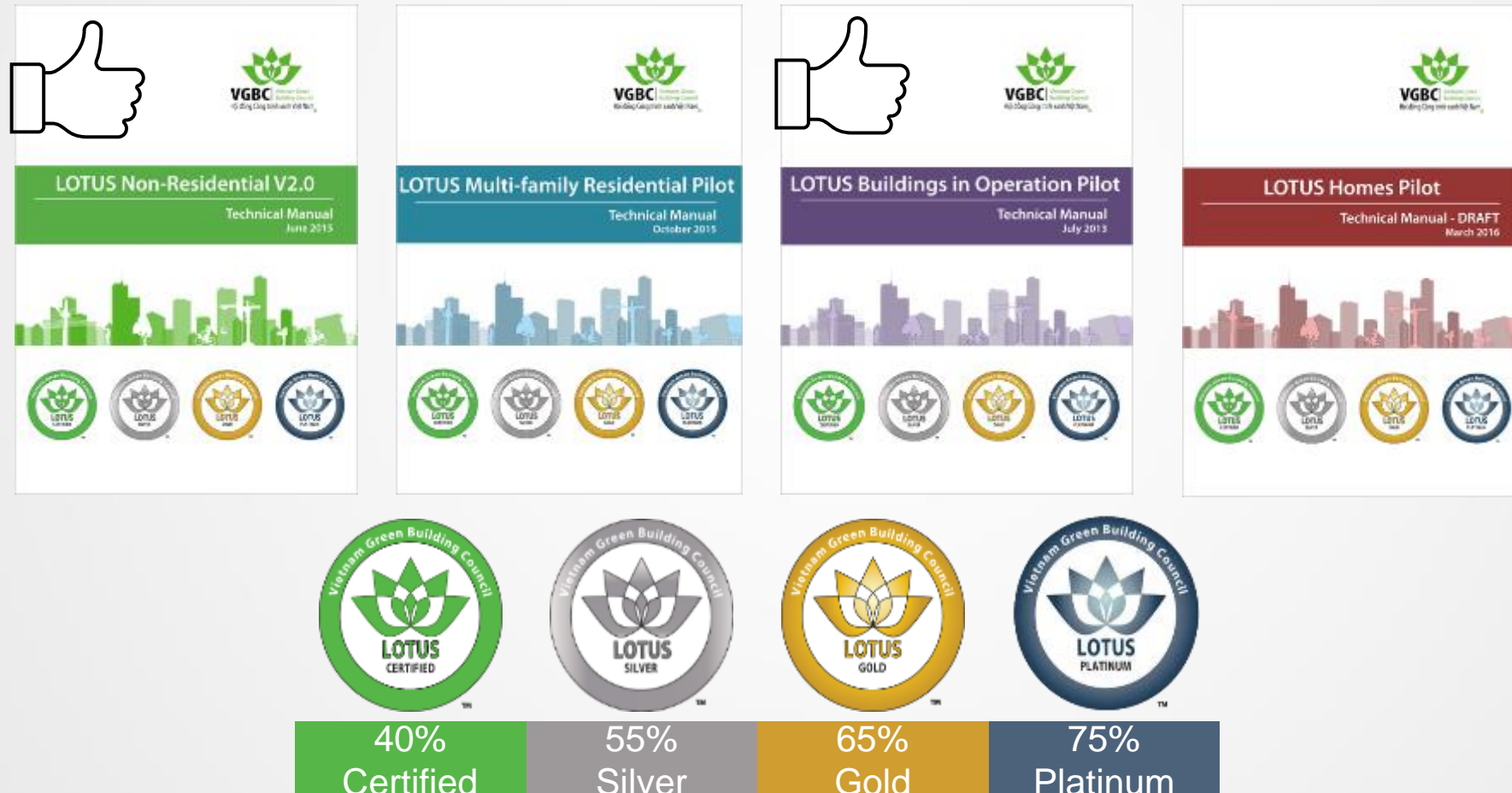
Meet local legal obligations



VGBC | Vietnam Green Building Council
-ội đồng Công trình xanh Việt Nam

VGBC AND LOTUS CERTIFICATION IN VIETNAM AND RATING

LOTUS is a set of **market-based** green building certification systems developed by the VGBC specifically for the Vietnamese environment.



CATEGORIES

LOTUS monitors buildings throughout the design, construction, as built and operation stages measuring their environmental impact, energy efficiency & impact on occupants, according to the following **10 categories**



Energy



Water



Purchasing/
Material



Ecology



Waste &
pollution



Health &
Comfort



Adaptation &
Mitigation



Community



Management



Innovation



LOTUS PLATINUM CERTIFICATION BY VGBC

Category	Points available	Points awarded	Certification level
LOTUS NC 2017	118	84	83-118 points PLATINUM
LOTUS BIO 2022	108	83	75-108 points Platinum



40%
Certified



55%
Silver



65%
Gold



75%
Platinum



Vietnam Green Building Council

hereby certifies that

Green One UN House

304 Kim Ma, Ba Dinh, Hanoi

has successfully achieved the level of

LOTUS PLATINUM

at the Full Certification Stage under LOTUS Buildings in Operation V1.1

LOTUS is a set of green building rating systems developed by the Vietnam Green Building Council, incorporating sustainable construction practices with Vietnam's building codes and standards.

Project number: DGB-BIO-1.1
Date of issue: 05/05/2022



Xavier Leulliette
Director of Assessment & Certification





3 GREEN EFFICIENCY RESULTS AND LESSON'S LEARNED



Energy

Solar PV covers 13% office needs
PV surplus transferred to grid = green revenue
LED lightening project implemented
BMS optimizing use of HVAC and lightening

34% of energy reduction
46.5% lighting density power reduction





Water

100% water: Wastewater treatment system since 2018

Reduction through fixtures during construction

Use of domestic low-water/ low-irrigation Landscape

52% Water Reduction

13% water consumed is Grey Water

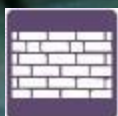




Material/ Purchasing

- Reuse and recycle of the main structure
- Use low-embodied material in construction and operation
- Use of renewable material like composite in new installation

94% of the former structure reused
84% Low-Embodied Materials
2% Rapidly Renewable Materials





Ecology

Use of domestic, native low-water plants
Install and maintain the green roof

35% Vegetated Site

35% Green Roof





Waste & Pollution

Non GHG Refrigerants

Solid Waste Management (recycling)

Wastewater treatment

Organic compost in house



1,500 kg of paper/cardboard recycled/2021
Recycle 1,200 cbm of water/2021
250kg fertilizer for gardening/2021

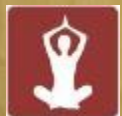
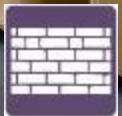


Health & Comfort

Full house covered with Air filtration/Ventilation + AQI measurement system + Fresh Air & CO2 monitoring

No indoor smoking

Daylight factor maximized



AQI inhouse below 50

94.7 % area reach daylight level

93% spaces have outdoor view



Adaptation & Mitigation

Disaster Resilience preparedness measures in place

Flood prevention

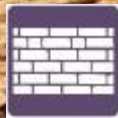
Heat Island Effect projects

Green transportation

No flooding

77% heat island effect reduced

21.1% occupant exercises Green
Commuting



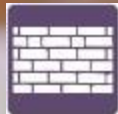


Community

Accessible and friendly building for People with Disabilities recognized by local authorities

Occupant Behavior project

Public Awareness Campaign





Management

Commissioning /Management of systems
Compliance with preventive maintenance
Green Management – ISO 14001





Innovation

Significant reduction compared
to benchmark on : Energy use,
Sustainable energy solution,
Water efficient fixtures and
Occupant comfort



LESSONS LEARNED



Early commitment and buy-in from both UN senior management and the local Government towards a green building initiative.



Green standards shall be applied **from the design stage**: enable integration of opportunities that would have been missed or would not be practical or cost effective to implement a later stage.



Maintaining Green High Standards requires tenacity, house keep monitoring, consistent and long-term view, mobilizing all stakeholders toward behavior change and frequent change/adaptation (evolving process)



Efficiency and Effectiveness: UN premises footprint lowered down, cost avoidance achieved, staff wellness improved and contributed towards the **achievement of the SDG's**

THANK YOU

FOR MORE INFORMATION, PLEASE CONTACT

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Or visit: <https://greeningtheblue.org>

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Dialogue & Q&A

Thank You

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BE MORE>
EMBRACE THE EFFICIENCY AGENDA