

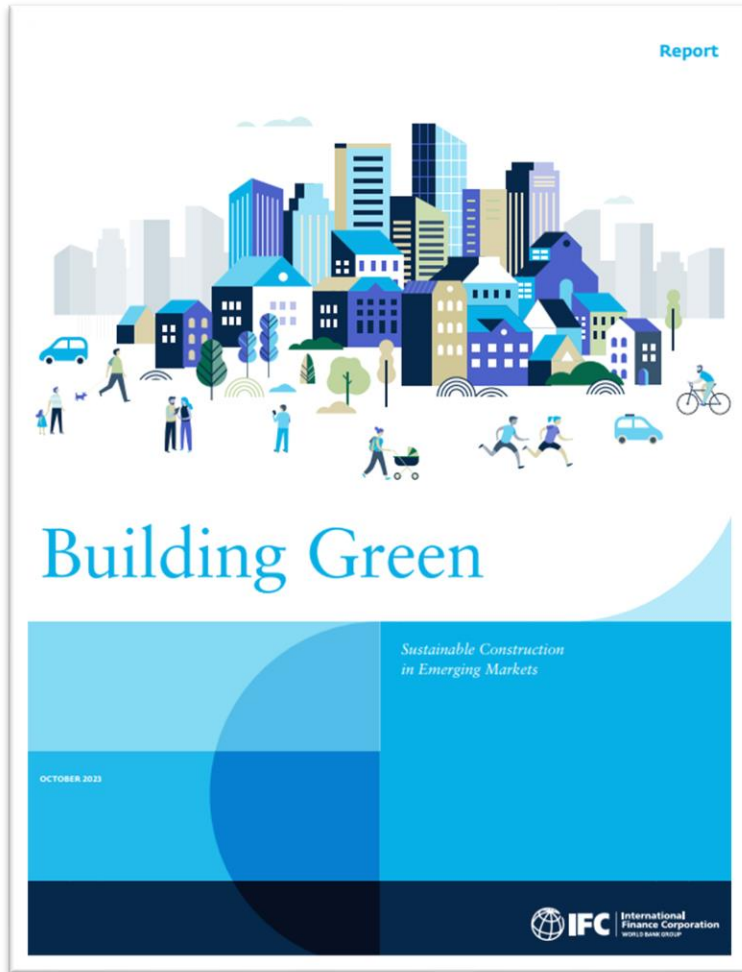
IFC'S ENGAGEMENT IN GREEN AND RESILIENT BUILDINGS



Creating Markets, Creating Opportunities

FY 2023

IFC LAUNCHED **BUILDING GREEN** REPORT A GAP OF \$1.5T IN EMS



Bloomberg

Green | ESG & Investing

Emerging World Needs \$1.5 Trillion for Green Buildings, IFC Says

The private sector arm of the World Bank Group now wants to help de-risk investments in climate friendly construction projects based in fast developing economies.



World ▾ Business ▾ Markets ▾ Sustainability ▾ Legal ▾ More ▾

Climate & Energy | Sustainable Markets | ESG Investors | Climate Change | Climate Solutions

Emerging markets need \$1.5 trillion to make buildings greener - World Bank's IFC

By Tommy Wilkes and Simon Jessop

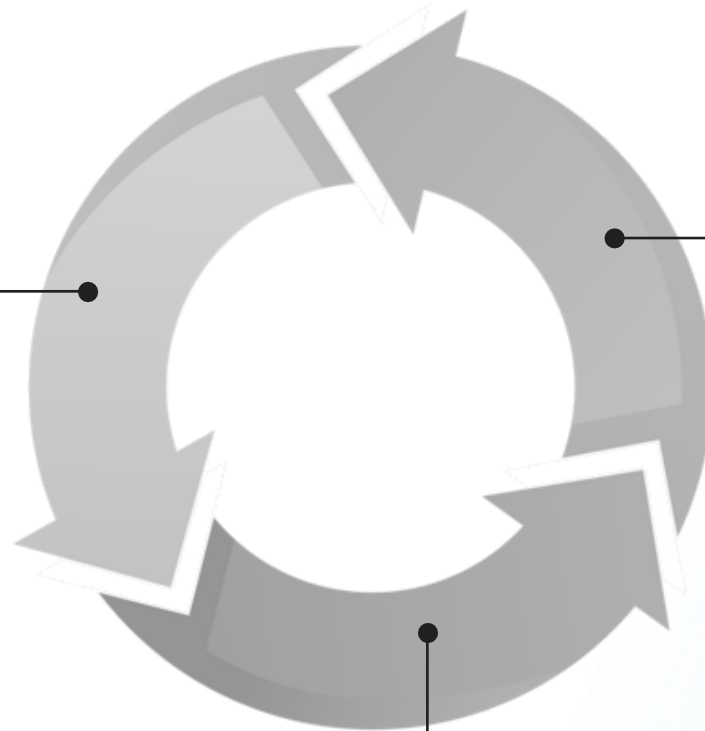
October 25, 2023 12:21 PM EDT · Updated 6 days ago



IFC'S SUITE OF BUILT ENVIRONMENT TOOLS



BRI provides the **building sector** a web-based hazard mapping and resilience assessment framework.



An evidence-based analysis will help design a roadmap and predict the future costs of climate action for **cities**.



A **green building** certification program that provides a measurable way for builders to optimize their designs.

EDGE: A RECORD OF EXPONENTIAL GROWTH AND GLOBAL IMPACT

EDGE delivered value for over 9,000 projects and 409K housing units in over 90 countries and saved over 1.3m tons of CO₂ per year.

96

Countries
have projects
certified*

9,384

Projects
certified*

409k

Housing units
certified*

1.3m+

tCO₂/year
saved



* Cumulative results since 2015
as of September 2023

EDGE IS AN ACCESSIBLE AND AFFORDABLE GREEN BUILDING CERTIFICATION SYSTEM

1.

Free Software



Further Resource:
[EDGE Software Demo](#)

2.

Achievable Standards



EDGE standard: 20% reduction in **energy** and **water** use in operation and energy in **materials** relative to local BAU baseline

3.

Third-party Verified Label



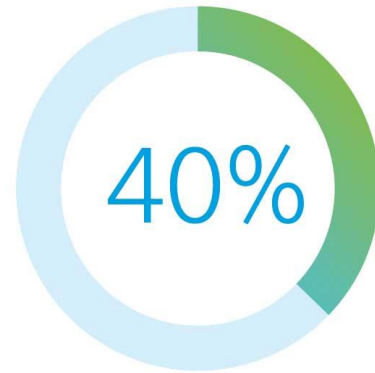
Administered by the largest network of green building certification providers in the world

THERE ARE THREE LEVELS OF EDGE CERTIFICATION



Level 1 - EDGE Certified

20% or more savings in energy, water, and embodied energy in materials.



Level 2 - EDGE Advanced

EDGE certified with 40% or more on-site energy savings.



Level 3 - Zero Carbon

EDGE Advanced with 100% renewables or purchased carbon offsets.

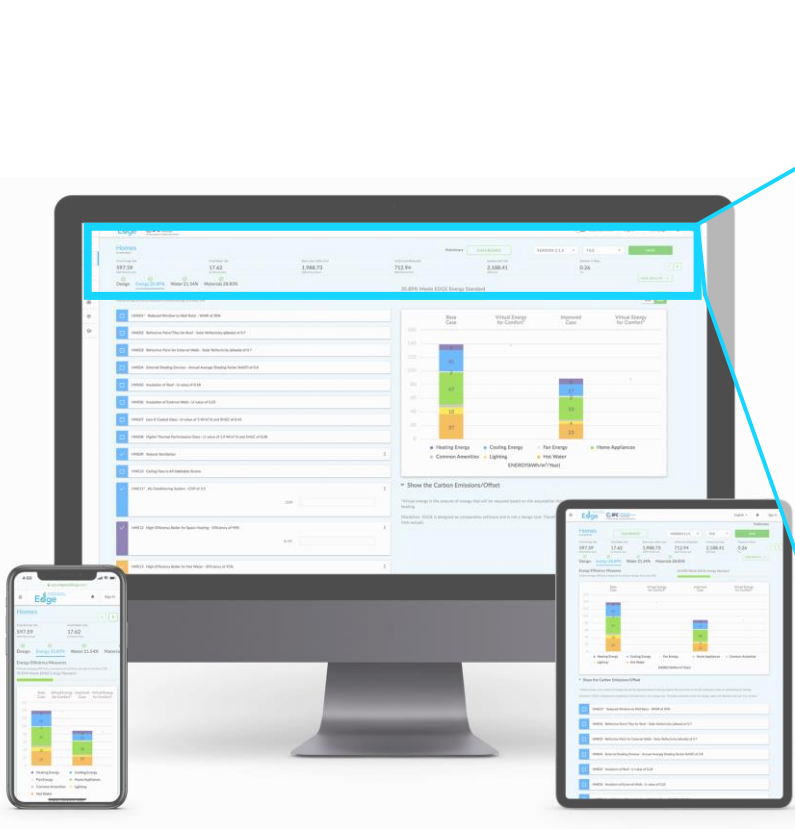
EDGE IS AVAILABLE WORLDWIDE AND FOR ALMOST ALL BUILDING TYPOLOGIES



Discover the intelligence of the EDGE App



THE FREE EDGE SOFTWARE SHOWS THE PAYBACK FOR EACH EFFICIENCY MEASURE - REDUCING COSTS AND SPEEDING UP DESIGN AND DECISION-MAKING



Instantaneous Feedback on Green Options

| | | | |
|---|---|--|------------------------------------|
| <p>✓ Energy 36.52%</p> | <p>✓ Water 32.77%</p> | <p>✓ Materials 47.67%</p> | Progress Toward Certification |
| <p>Utility Cost Reduction 9,788.45 PAB/Month</p> | <p>Incremental Cost 49,753.26 PAB</p> | <p>Payback in Years 0.42 Yrs.</p> | Incremental Cost and Payback |
| <p>Embodied Energy Savings 1,056.04 MJ/m²</p> | <p>Energy Savings 506.90 MWh/Year</p> | <p>Water Savings 4,520.42 m³/Year</p> | Energy, Water, & Materials Savings |
| <p>Operational CO₂ Savings 155.89 tCO₂/Year</p> | <p>Carbon Emissions 265.92 tCO₂/Year</p> | | Carbon Tracking |

EDGE IS USED AS A STANDARD BY MANY FIS, INCLUDING ALL MAJOR DEVELOPMENT BANKS



Inter-American Development Bank



AFRICAN DEVELOPMENT BANK GROUP



ProCredit Bank



Case study:
Bwiza Riverside
Homes
Rwanda



Bwiza Riverside Homes

Bwiza Riverside Homes envisions a housing development (257 units of 6 different townhouse typologies) with shared amenities including three workshops, a school and administrative building, a daycare centre and a convenience store.

Besides ADHI's light steel frames and light concrete patented construction technology, a variety of innovative and sustainable materials and technologies are featured in building construction, in green infrastructure, in effective waste management and in offering dignified community living standards.

Predicted Savings of EDGE Advanced Certification

45%

Energy Savings

37%

Water Savings

42%

Less Embodied Energy in Materials

Case study:
**Cable TV Tower to Data
Center Conversion
Hong Kong**



Cable TV Tower to Data Center Conversion

- Data Center project in Hong Kong becomes first EDGE-certified data center in the world. The Cable TV tower was originally constructed as a mixed industrial-commercial building with 41 floors and a height of 197 meters in 1993.
- The project consists of a partial re-use and retrofit of the existing industrial building parts, with construction being limited to internal areas.
- Substantial savings in energy, water, and energy embodied in construction materials were achieved through the use of state-of-the-art technologies.

Predicted Savings of EDGE Certification

36%

Energy Savings

24%

Water Savings

66%

Less Embodied Energy in
Materials

FIRST EDGE RESETTLEMENT HOUSING



BUENOS AIRES, ARGENTINA

Exemplifying achievement in the following areas:

52%
Energy Savings

30%
Water Savings

45%
Less Embodied
Energy in Materials

0.49 tCO₂/unit/year
Operational CO₂ Emissions

0.87 tCO₂/unit/year
Operational CO₂ Savings



Cost of efficient technologies represented around 3.5% of construction costs

EDGE WEBSITE HAS A LIBRARY OF CASE STUDIES OF EDGE CERTIFIED PROJECTS



[Green Parque Sur \(PER\)](#)



[Urbika Apartments \(RSA\)](#)



[Alarife \(ECU\)](#)



[You Perdizes \(BRA\)](#)



[The Genesis Residences \(GHA\)](#)



[AC Hotel by Marriott \(MEX\)](#)
By Grupo Posadas and Fibra



[Fairfield by Marriott \(IND\)](#)
By SAMHI



[101 Bogor Suryakencana \(IDN\)](#)
By Panoramaland



[Viviendas Pareada Las Brisas \(BOL\)](#)



[Residencia Fortaleza \(MEX\)](#)

CLICK ON LINKS FOR IN-DEPTH PROJECT STUDIES