

AASHIANA

Nairobi, Kenya | Final EDGE Certification | September 2019

Developer: Madhur Ramrakha | EDGE Expert: Elizabeth Wangeci Chege

EDGE Auditor: Amrish Shah



Aashiana, which means “sanctuary” in Hindi, is a home that exudes brightness, energy and natural beauty, serving as an oasis of tranquility for its inhabitants in Nairobi, Kenya.

The intention of the design was to flood the residence with natural light and allow excellent ventilation without compromising on thermal comfort. The home is full of modern conveniences but is not totally dependent on erratic grid power. Water is conserved and reused without negatively impacting the potable and non-potable uses of occupants. Materials and finishes were procured from responsible supply chains which are party to eco-labelling and/or certification standards, with the intention that the building be constructed with the least amount of embodied energy in materials as possible.

Madhur (Muddy) Ramrakha, the developer of the home, believes in taking a triple-bottom-line approach by focusing on people, the planet and profits. Aashiana has received final EDGE certification from GBCI.

Size
1,072 m²



51% ENERGY SAVINGS

Reduced window to wall ratio, reflective paint/tiles for external walls and roof, natural ventilation with operable windows and no air conditioning, heat pump for hot water generation, energy-efficient refrigerator and clothes washing machine, energy-saving lighting for internal and external spaces, lighting controls for the exterior, solar photovoltaics, and smart meters are projected to save 51 percent of the energy that a conventional home would require.

Certified Units
1



72% WATER SAVINGS

Low-flow showerheads, low-flow faucets for kitchen sinks and washbasins, dual flush water closets, a rainwater harvesting system, and recycled grey water for flushing help reduce water waste and lower utility bills.

People Impacted
12

64% LESS EMBODIED ENERGY IN MATERIALS



In-situ reinforced concrete slab for floor, asphalt shingles on timber rafters for roof, machine-cut, unpolished stone blocks for internal and external walls, parquet/woodblock finishes and ceramic tile for flooring, and re-use of existing steel frames for windows help reduce this project's impact on the environment.

CO₂ Savings
14.8 tCO₂/Year



EDGE, an innovation of International Finance Corporation (IFC), is a green building certification system focused on making buildings more resource-efficient. It empowers developers to quickly identify the most cost-effective ways to reduce their building's energy use, water use and embodied energy in materials. Green Business Certification Inc. (GBCI) administers EDGE certification in over 140 countries around the world and is the exclusive certification provider for all EDGE buildings in India. Learn more at edge.gbci.org.