WORKSHOP NO. 1

ASSESS AN AFFORDABLE HOUSING PROJECT

Duration: 25 min

- Create a user account in the EDGE App and log in.
- Create the case study as per the next slide.
- Ensure that the project meets:
 - The EDGE Energy section requirements.
 - The EDGE Water section requirements.
 - The EDGE Materials section requirements
- Share your results, for group discussion.
- Share your project with a friend.





WORKSHOP NO. 1

A new build affordable housing project in Nairobi comprising of 100 identical separate houses. Each house is a 2 bedroom, 2 floor unit, 50m2 area. There is no heating or cooling.



Energy efficiency:

Uses 15% WWR

Horizontal external shading devices for the south orientation (window overhang depth equals window height). Window area is 2m2.

LED lights for internal and external areas.

Solar hot water heating (50% of electricity generation)

Water efficiency:

Efficient showerheads with 8 L/min.

Dual flush WCs with 6/3 L/flush.

Efficient WHB taps – 5L/min

Kitchen taps – 5L/min

Materials efficiency:

150 mm reinforced concrete floor and roof slabs.

Masonry stone blocks with 150mm internal walls and 200mm external walls.

Ceramic Tiled flooring

Steel window frames.



