Sustainable Energy Designs

From Rainwater Capture to Microgrids | How to drive sustainability within your home

Yasha Ogg | Sustainable Design Lead

CANNONDESIGN

LEED AP ID+C, BD+C
EcoDistricts AP
WELL AP
Fitwel Ambassador
RESET AP
CPHC
LFA
ActiveScore AP
ZERO CARBON BUILDING

LOCATION

CLIMATE RESPONSIVE

ENERGY EFFICIENCY (MAXIMIZE)

EMBODIED CARBON (MINIMIZE)

ELECTRIFY (EVERYTHING)

RENEWABLE ENERGY (100%)
HIGH INSULATION

OPTIMIZED SOLAR ORIENTATION

HIGH PERFORMANCE WINDOWS

AIR TIGHT CONSTRUCTION

BALANCED VENTILATION
Resilience
Microgrids improve resilience by disconnecting from the main grid during an outage and using local resources, including storage, small generators, and renewables, to keep power flowing to their communities.
Integration of Renewables
Distributed energy resources, primarily renewables like solar, wind, and battery storage, are key components of a microgrid.
Demand Response
Microgrid technology offer co-ops additional flexibility in managing the use and cost of power on their systems.
The microgrid controller manages the energy for the building.

Solar panels collect clean electricity from the sun’s rays.

A battery system stores the electricity generated from the solar panels.
Actions

You can do now...
Points are based on information reviewed and actions taken throughout the year. Top finalists will be invited to join us at the Annual Awards Ceremony.

**COMPLETE A TASK**

**FAST FASHION**
- **ASK #WHOMADEMYCLOTH**
  - When you are buying clothes, ask the brands you are interacting with: was this made in a safe environment? And was everyone in the factory paid a living wage?
  - **SUBMIT**
  - Action Points: 20pts.

**BUY LESS AND BETTER**
- The UN consider fashion to be the second most polluting industry in the world. Buy less and buy better quality.
  - **UNCLAIM POINTS**
  - Action Points: 20pts.

**TAKE THE 30-WEAR PLEDGE**
- Before you buy something, ask yourself: Will I wear it a minimum of 30 times? You may be surprised at how often the answer is no. But, if the answer is yes, buy it and enjoy it!
  - **UNCLAIM POINTS**
  - Action Points: 20pts.

**WATCH THE VIDEO**

**TAKE THE QUIZ**

**SMALL ACTS**
- 10 Knowledge Points
- **TAKE QUIZ**
CHALLENGES

Welcome to Bring Your Green Public Challenges! By engaging people’s sense of play and competition, we seek to inform, engage and inspire students, employees and enthusiasts to consider their own individual actions for a healthy, sustainable and just world.

COMMIT TO IT

Welcome to Small Acts Actions for Green!

Discover ways you can help by taking personal action. You can select actions you’re already doing or will start doing, now that you learned something new. Small actions taken by a large number of people makes a difference.

LEADERBOARD

Follow the progress of the Change Makers, individuals that are participating in Bring Your Green Public Challenges. No matter where you are in your green journey, every act matters!

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Thank you
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