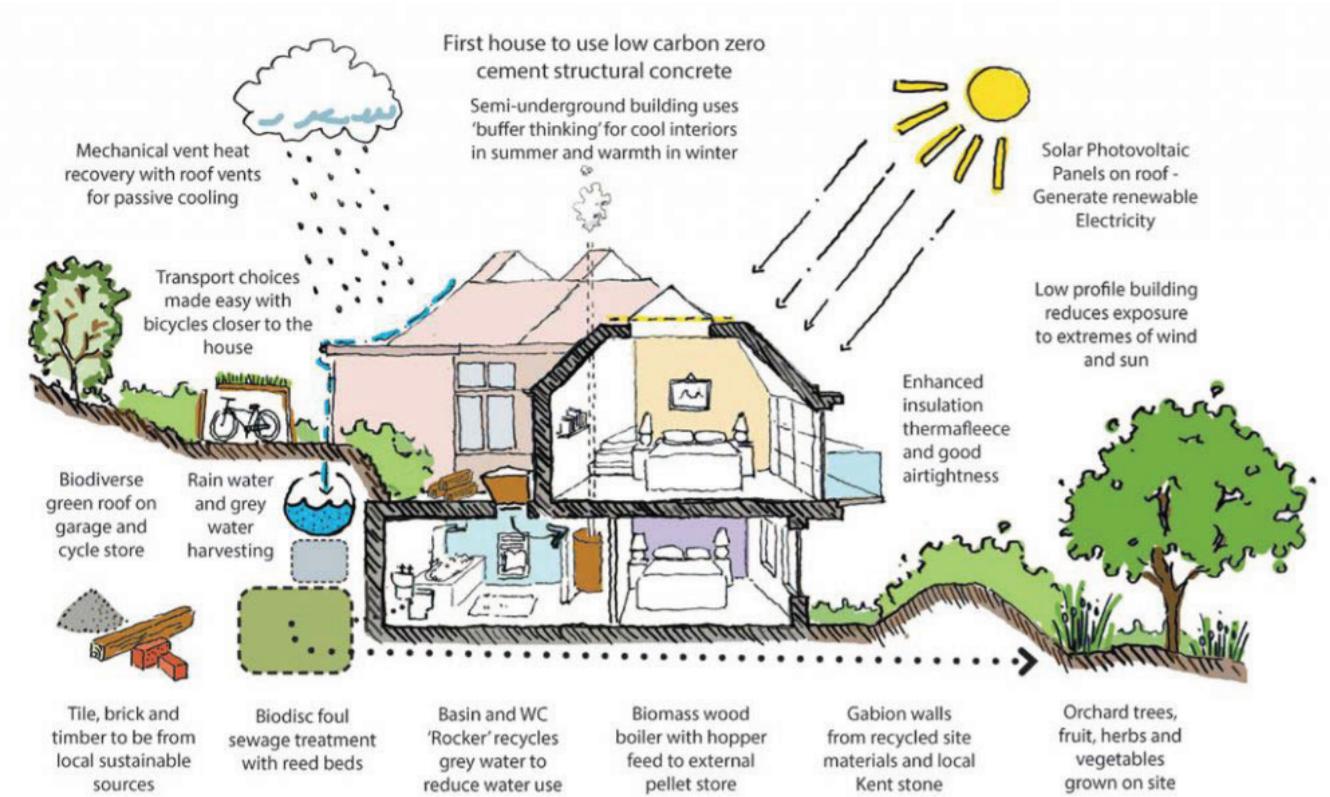


# SUSTAINABILITY



Figure\_1: <https://bluprint-onemega.com/wp-content/uploads/2021/06/ANATOMY-1.jpg>

**Sustainable housing** refers to the design, construction, and operation of residential buildings that prioritize environmental, social, and economic sustainability throughout their lifecycle. All of these activities aim to minimize the negative impact of human activity on the environment as well as promoting health and well-being for occupants, and conserve natural resources.

## 1. Location and Cultural Context.



Figure\_2: [https://www.japan-experience.com/sites/default/files/images/content\\_images/kyotoatt20192.jpg](https://www.japan-experience.com/sites/default/files/images/content_images/kyotoatt20192.jpg)

Geographic location and cultural background of a region influence the design of the building, in sustainable housing design to ensure that buildings are responsive to the natural environment, respectful of cultural heritage, and reflective of the values and aspirations of the community. This approach leads to the creation of truly sustainable homes that enhance the well-being of both residents and the surrounding ecosystem. This is the building that reflects Japanese architecture and the culture's heritage.

## 2. Renewable energy.



Figure\_3: [https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.bluelineplumbers.com.au%2Frainwater-tanks&psig=AOvVaw2e5QI4ogcl\\_qm18djzWEN&ust=171234266313800&source=images&cd=vfe&opi=89978449&ved=0CBIQjRxqFwoTCOCq8YycqYUDFQAAAAAdAAAAABAE](https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.bluelineplumbers.com.au%2Frainwater-tanks&psig=AOvVaw2e5QI4ogcl_qm18djzWEN&ust=171234266313800&source=images&cd=vfe&opi=89978449&ved=0CBIQjRxqFwoTCOCq8YycqYUDFQAAAAAdAAAAABAE)

Sustainability in housing design encompasses a holistic approach to building that prioritizes environmental responsibility, occupant health and comfort, and resource efficiency. By implementing energy-efficient design, using renewable materials, and adopting water conservation techniques, sustainable housing projects can minimize their environmental impact while providing healthy, comfortable, and resilient living spaces for occupants.

## 3. User-Centric Design.



Figure\_4: <https://bluprint-onemega.com/wp-content/uploads/2021/06/ANATOMY-1.jpg>

User-centric design is essential in sustainable housing to create living spaces that are responsive to the needs and aspirations of occupants while promoting environmental sustainability and resource efficiency. By integrating features that enhance comfort, health, and happiness, sustainable homes can contribute to a higher quality of life for residents while minimizing their ecological footprint on the planet.

## 4. Architectural Quality.



Figure\_5: <https://www.thegreensideofpink.com/wp-content/uploads/2023/06/view-city-with-apartment-buildings-green-vegetation.jpg>

Sustainable architecture extends beyond aesthetics to include functionality, durability, and resilience. Sustainable design integrates high-quality materials and craftsmanship to ensure long-term performance, exemplified in projects like the Bullitt Center in Seattle, Bosco Verticale in Milan, and Earthship Biecture community in Taos. These buildings prioritize environmental sustainability, user well-being, and innovative design to create structures that are both beautiful and resilient, serving as inspiring models for sustainable living.

## 5. Human Experience.



Figure\_6: <https://bluprint-onemega.com/wp-content/uploads/2021/06/ANATOMY-1.jpg>

Sustainable housing enhances the quality of life and well-being for residents by providing healthy, comfortable, and socially connected living spaces. By prioritizing human experience in the design process, sustainable homes contribute to healthier, happier, and more resilient communities, fostering a sense of belonging and improving overall quality of life for individuals and families.