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International Design Challenge

# SELF SUFFICIENT SANCTUARY I

Designing off the grid residences

First Edition

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## **Self Sufficient Sanctuary: Designing off the grid residences**

## Introduction

As our cities expand and populations grow, the demand for sustainable living solutions becomes increasingly critical. The urban landscape, characterized by its sprawling infrastructure and resource consumption, contrasts sharply with the ideal of a harmonious relationship with nature. This dichotomy underscores the need for a paradigm shift in how we design our homes and communities.

Off-the-grid residences represent a bold and visionary response to this need. These homes are designed to operate independently of public utilities, integrating renewable energy sources, water management systems, and waste reduction strategies into their core design. By doing so, they offer a path to reduce our ecological footprint and foster a lifestyle rooted in self-reliance and environmental stewardship.

The "Self-Sufficient Sanctuary: Designing Off-the-Grid Residences" competition invites architects, designers, and visionaries to explore this transformative approach. Participants are tasked with creating residential designs that transcend traditional concepts of living spaces. These designs should not only address the practicalities of self-sufficiency but also embody a holistic vision of well-being and harmony with the natural world.

In this competition, we challenge you to envision homes that are more than just shelters. We seek designs that function as sanctuaries—spaces that harmonize with their environment, support a sustainable way of life, and demonstrate resilience in the face of contemporary challenges. Your design should reflect an innovative approach to living off-the-grid, incorporating advanced technologies and thoughtful design strategies to create a residence that is both beautiful and functional.

As we confront the realities of climate change, resource depletion, and environmental degradation, this competition represents an opportunity to rethink and redefine the future of residential architecture. We invite you to join us in shaping this future, creating spaces that not only serve their inhabitants but also contribute positively to the world around them.

## Objective

The primary aim of this competition is to foster innovation in the design of self-sufficient residences that operate entirely off the grid. Participants are invited to create a comprehensive architectural solution that seamlessly integrates various systems to achieve full independence from conventional utilities. The core objectives are as follows:

- **Self-Sufficiency:** Design a residential environment that operates autonomously, without reliance on external power, water, or waste management systems. The design should incorporate renewable energy sources, such as solar, wind, or geothermal, and innovative methods for water harvesting, storage, and purification.
- **Integrated Systems:** Develop a holistic approach where energy, water, waste, and food production systems work together harmoniously. This integration should demonstrate how these elements can function efficiently in tandem, contributing to the overall sustainability and resilience of the residence.
- **Functional Design:** Address all functional aspects of residential living, including comfortable and practical spaces for daily activities. The design should include well-planned areas for living, sleeping, cooking, and relaxation, while maintaining high standards of functionality and efficiency.
- **Promoting Well-Being:** Create a living environment that enhances the physical and mental well-being of its occupants. This involves incorporating elements that foster relaxation, reduce stress, and create a sense of connection with the natural world. Consideration should be given to natural light, ventilation, acoustics, and spatial layout.
- **Connection to Nature:** Ensure that the design establishes a strong connection between the residence and its natural surroundings. This can be achieved through thoughtful landscaping, the use of natural materials, and design strategies that integrate indoor and outdoor spaces.
- **Resilience:** Design with resilience in mind, addressing potential challenges such as climate variability, natural disasters, and resource scarcity. The residence should be adaptable and robust, capable of withstanding environmental stresses and maintaining functionality under various conditions.

- **Innovation:** Encourage the exploration of cutting-edge technologies and creative design solutions. Participants should push the boundaries of conventional residential design, incorporating novel approaches to sustainability and self-sufficiency.
- **Environmental Impact:** Minimize the environmental footprint of the residence through careful selection of materials, energy-efficient systems, and sustainable practices. The design should contribute positively to the local ecosystem and reduce overall resource consumption.

By meeting these objectives, participants will contribute to the advancement of sustainable living practices and help shape the future of off-the-grid residences. The competition seeks to highlight designs that are not only functional and innovative but also contribute to a more resilient and harmonious way of living with the environment.

## The Building Program

Participants must design a residence that includes the following:

- **Living Area:** Comfortable and aesthetically pleasing spaces for daily activities such as living, dining, and relaxation.
- **Sleeping Quarters:** Bedrooms designed for privacy and rest, accommodating a family of 4-6 members.
- **Kitchen and Food Production:** A fully functional kitchen coupled with an integrated system for local food production (e.g., greenhouse, vertical gardens, aquaponics).
- **Water Management:** Systems for rainwater harvesting, greywater recycling, and clean water storage.
- **Energy Generation:** Integration of renewable energy sources like solar, wind, or geothermal to power the residence.
- **Waste Management:** Solutions for waste minimization, recycling, and composting.
- **Connection to Nature:** Design elements that enhance the relationship between the occupants and the surrounding natural environment, such as outdoor spaces, natural light, and views.

## Site

Participants are free to select a site for their design. The site can be urban, rural, or remote, but it must present a challenge that requires a truly off-the-grid solution. Participants should provide a rationale for their site selection, considering factors such as climate, topography, access to natural resources, and the potential for self-sufficiency.

## Sustainability

Sustainability is at the core of this competition. Proposals should demonstrate a comprehensive approach to sustainability, addressing:

- **Energy Efficiency:** Maximizing passive design strategies and integrating renewable energy systems.
- **Material Selection:** Using sustainable, locally sourced, or recycled materials.
- **Water Conservation:** Innovative water management and conservation techniques.
- **Biodiversity:** Enhancing local biodiversity through thoughtful landscaping and habitat creation.
- **Resilience:** Designing for resilience in the face of climate change, natural disasters, or resource scarcity.

## Project Proposal Requirements

Participants must submit a detailed project proposal including the following elements:

- **Design Concept:** A narrative explaining the design philosophy, inspiration, and how the project meets the objectives of the competition.
- **Site Analysis:** A thorough analysis of the chosen site, including environmental conditions, resource availability, and challenges.
- **Architectural Drawings:** Plans, sections, elevations, and any other drawings necessary to explain the design.
- **Visualizations:** High-quality renderings, diagrams, and/or models that convey the design concept.
- **Technical Documentation:** Details of systems used for energy, water, waste management, and food production.

## Timeline

- Registration Deadline: 26<sup>th</sup> January 2026
- Submission Deadline: 5<sup>th</sup> February 2026
- Winners Announcement: 6<sup>th</sup> May 2026

## Submission Requirements

### File Format:

- All entries must be submitted as a single PDF document.

### Sheets:

- Minimum of 3 sheets, maximum of 6 sheets.
- Each sheet should include designs, drawings, and views that effectively communicate the project concept.

### Text Explanation:

- Each sheet must contain explanatory text that describes and supports your design decisions.
- Text should be clear and concise, highlighting the main ideas and features of the project.

### Content to Include (per sheet):

- Design Concepts: Conceptual drawings, diagrams, and sketches.
- Plans, Elevations, and Sections: Architectural plans, cross-sections, and elevations.
- Views and Renderings: 3D views, perspectives, or rendered images of the project.
- Diagrams: Illustrations explaining circulation, spatial relationships, environmental or structural concepts.

### Resolution and Quality:

- All sheets should be high-quality, legible, and visually clear.

### File Size:

- The total file size should not exceed 20 MB.

### Naming Convention:

- The file should be named as: CompetitionName\_ParticipationCode.pdf

### Anonymity:

- No names, logos, or identifying marks should appear on any of the submitted sheets to ensure anonymity during judging.

## Submission Guidelines

### Sign in to Your Account:

- Visit the Archiol website and sign in to your account.

### Access Your Competition Submissions:

- In the header, click on the arrow beside your profile picture. Select the option labeled "My Competition Submissions."

### Submit Your Entry:

- Click on the "Submit My Entry" button.

### Select Competition:

- Choose the competition name for which you wish to submit your entry.

### Enter Participation Code:

- Input the participation code that was generated during your registration.

### Title Your Submission:

- Provide a title for your submission.

#### Upload Title Image:

- Upload the image that will represent your project.

#### Upload Design PDF:

- Submit your project in PDF format (ensure it meets the competition's requirements).

#### Consent:

- Check the box to agree to the competition terms and conditions.

#### Submit:

- After filling in all required fields, click "Submit."

#### Confirmation:

- Your submission will appear in "My Competition Submissions" within 24 hours.

### **Eligibility**

The competition is open to all architects, designers, students, and creative individuals globally. There are no restrictions on age or nationality.

### **Contact Details**

For any inquiries or further information, please contact us at:

- Email: [info@archiolcompetitions.com](mailto:info@archiolcompetitions.com)
- Website: [www.archiolcompetitions.com](http://www.archiolcompetitions.com)