TRUE ZERO ENERGY DESIGN

LAGI 2020 RANCH COMPETITION DESIGN

OVERVIEW DESCRIPTION
Our planet is dying. We are killing it. We are destroying it for our own convenience. Life on Earth is currently in a state of crisis. We need to take immediate action to save it. Our policies have failed. We need to radically change our approach.

The design of the Lagi 2020 Ranch Competition Design is a visionary concept for a sustainable and regenerative community that aims to demonstrate the potential of an eco-friendly lifestyle. The design integrates green architecture, renewable energy systems, and innovative sustainable technologies to create a self-sufficient and zero-energy environment.

1. TRUE ZERO ENERGY DESIGN
   - The design focuses on the concept of true zero energy, where the community produces all the energy it needs, and any excess is stored for future use.
   - It includes a combination of passive solar design, energy-efficient materials, and a central power plant that generates electricity from renewable sources.

2. SELF-GENERATED ELECTRICITY
   - The design features a solar panel array that provides the community with all the electricity it needs. The excess power is stored in batteries for use during periods of low sunlight.

3. SELF-SUFFICIENT HABITAT
   - The design includes a series of buildings that are designed to be self-sufficient in terms of water and food. The buildings are equipped with rainwater harvesting systems, and the community grows its own food using hydroponic and aeroponic techniques.

4. CLIMATE DURABLE CONSTRUCTION
   - The design incorporates climate-adaptive strategies to ensure the long-term durability of the buildings. The buildings are designed to withstand extreme weather conditions and are made from durable, locally-sourced materials.

5. TECHNOLOGIES THAT DO NOT HARM THE EARTH
   - The design includes a range of technologies that do not harm the environment, such as solar panels, wind turbines, and geothermal heating and cooling systems.

6. NEXT OPEN AT DAY TIME.
   - The design is open to the public for visitors to experience the innovative design and technology firsthand.

N. A TRICK PUMPOW-65 D. SHEETS
   - The design features a series of sheets that are designed to be used as a solar panel array. The sheets are lightweight and flexible, making them ideal for use in a variety of locations.

7. ENSURING STRONGER AND GREATER RESISTANCE
   - The design incorporates a series of structural elements that are designed to ensure the strength and durability of the buildings. These elements include advanced materials and innovative construction methods.

8. TECHNOLOGIES FOR SELF-SUFFICIENT BUILDING
   - The design includes a range of technologies that are designed to support the self-sufficiency of the buildings. These technologies include solar panels, wind turbines, and geothermal heating and cooling systems.

9. NEXT CLOSE AT NIGHT TIME.
   - The design is designed to be energy-efficient at night, with minimal reliance on external power sources.

Figure 1: (3D) An exterior view showing the proposed design. The building is designed to be self-sufficient and energy-efficient, with solar panels, wind turbines, and geothermal heating and cooling systems.

Figure 2: A view of the interior showing the sustainable design features, such as solar panels, wind turbines, and geothermal heating and cooling systems.

Figure 3: A view of the exterior showing the innovative design features, such as solar panels, wind turbines, and geothermal heating and cooling systems.