



Project Title: Vertical Solar Generator (VSG)  
 Team: Kunfirm Technologies

- Unique Value:
- Vertical design reduces land use by 90%
  - Scalable from small installations to large projects
  - Reduces energy costs by up to 30%
  - Built-in energy storage ensures continuous power

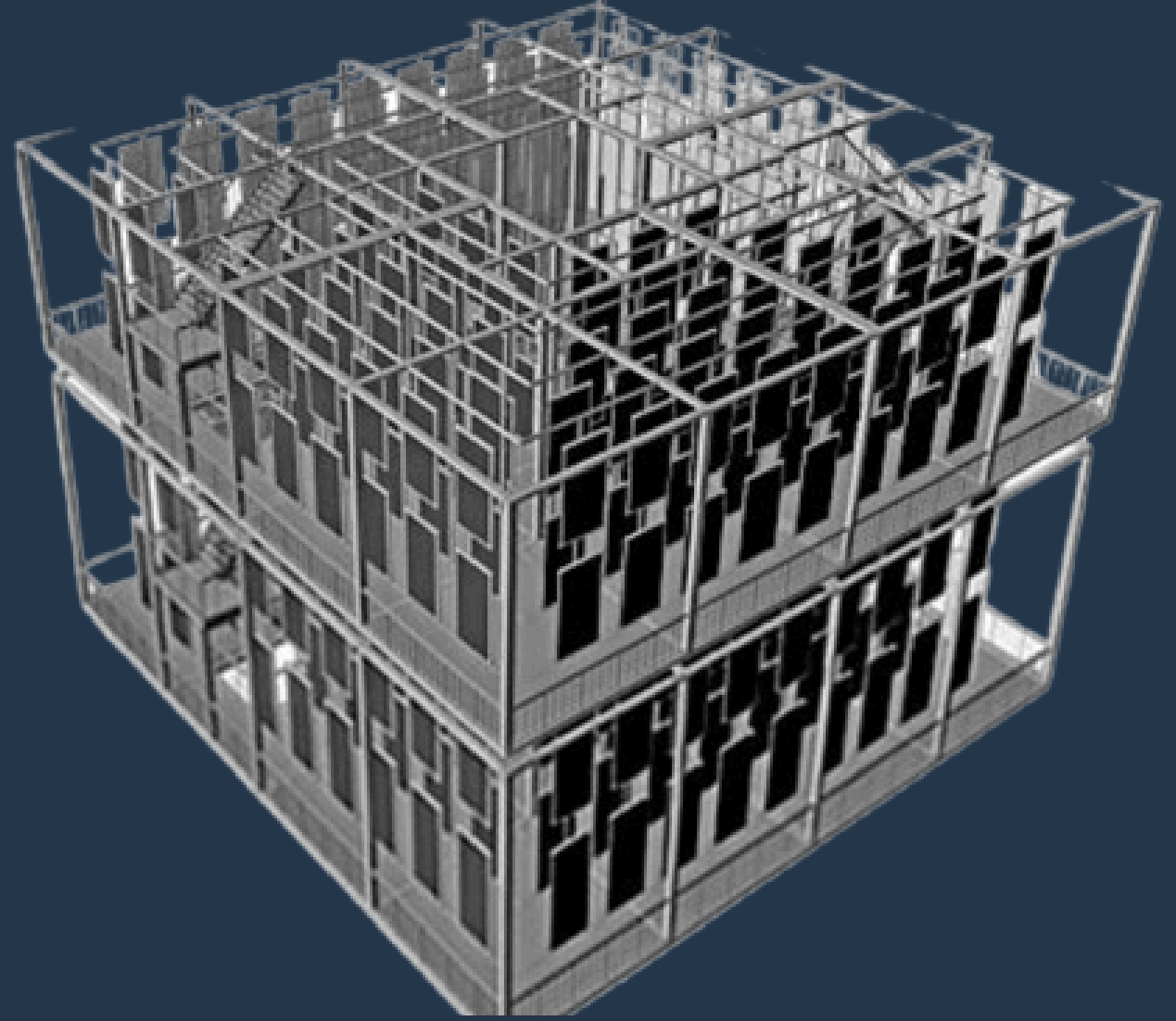
**Problem:**

Traditional solar farms require vast amounts of land (100+ acres for 20MW), making them unsuitable for urban environments. Additionally, they suffer from efficiency loss during variable weather conditions and are vulnerable to environmental damage.

**Solution:**

VSG is an innovative vertical, multi-tiered solar system that maximizes solar energy capture with a minimal footprint. It uses reflectors and magnifiers to optimize light penetration, delivering up to 25% increased energy efficiency while reducing land use by 90%. VSG is designed for dense urban areas and off-grid rural regions, allowing communities to generate clean, reliable energy without sacrificing valuable land.

**This diagram illustrates the internal stacking configuration of the VSG.**



**Team Expertise:**

Kunfirm Technologies is a minority- and women-owned business combining over 60 years of entrepreneurship and scientific experience. Our team of renewable energy experts is dedicated to creating equitable and sustainable clean energy solutions.



Yvonne Ukwu



Victoria Omachi



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