

Ticaboo Community Solar Project

Hybrid Microgrid Energy Project – Torus Proposal

Project Structure

- Torus will **finance, design, build, own, operate, and maintain** a hybrid microgrid (solar, battery storage, and Nova Spin flywheel).
 - **No upfront capital cost to TUID.**
 - Delivered through a **20-year Power Purchase Agreement (PPA).**
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Energy Cost

- Fixed rate: **\$0.24/kWh for 10 years**
 - Current diesel generation typically exceeds **\$0.40+/kWh.**
 - Provides **predictable long-term energy pricing and fuel cost protection.**
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Reliability Improvements

- Nova Spin flywheel provides **sub-250 millisecond response** for grid stability.
 - Greatly improved battery life.
 - Reduces generator dependence and improves power quality in the remote microgrid.
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Community & Environmental Benefits

- Reduces **diesel fuel use and CO₂ emissions.**
 - **EV charging stations installed at no cost** for residents and visitors.
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Key Contract Terms

- **Term:** 20 years (optional 5-year extensions).
 - **Escalation:** 10% price adjustment in year 10.
 - **Minimum Volume:** 75% of projected energy (~\$101,700 minimum annual payment).
 - **Performance Guarantee:** Torus must remediate or reimburse if generator use exceeds 25%.
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Implementation Timeline

- Engineering begins **immediately after approval.**
- Project completion expected within **2–4 months.**