

Response to RFQ – Solar Carport Installation

Submitted by: National Energy Control

Date: 12/03/2025

1. Carport Manufacturer & System Specifications

Manufacturer: Terrasmart

Headquarters: Cincinnati, OH

Site 1

- **Modules:** 168
- **System Size:** 84 kW
- **Azimuth:** 183°
- **Tilt:** 7°
- **Module Dimensions:** 56 × 3
- **Array Dimensions:** 211.9 ft × 22.8 ft
- **Clearance:** 14 ft minimum

Site 2

- **Modules:** 102
- **System Size:** 56 kW
- **Azimuth:** 183°
- **Tilt:** 7°
- **Module Dimensions:** 34 × 3
- **Array Dimensions:** 128.7 ft × 22.8 ft
- **Clearance:** 14 ft minimum

Site 5 (Existing Carport)

- **Modules:** 70
- **System Size:** 35 kW
- **Azimuth:** 183°
- **Tilt:** 7°

- **Module Dimensions:** 10 × 7
 - **Array Dimensions:** 26.4 ft × 76 ft
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2. Carport Pillar Design & Placement

- **Foundation:**
 - 10 ft depth, 36" diameter, drilled below ground
 - **Above-Ground Options:**
 - 36" raised pier, *or*
 - 20" steel pillar
 - **Placement Plan:**

The current engineering plan situates all pillars **north of the parking spaces**, ensuring **no loss of parking**. NEC is fully willing to accommodate any placement preferences requested by the City of Bexley.
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3. Project Timeline

- **Engineering, Fabrication & Permitting:** 116 days
 - **Construction Duration:** Approximately 2–4 weeks depending on array count
 - **Completion Schedule:**

If contracted by **December 31, 2025**, installation will be completed by **June 1, 2026**.
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4. Project Cost – Sites 1, 2, and 5

- **Total System Size:** 175 kW (52% offset)
 - Site 1: 84 kW
 - Site 2: 56 kW
 - Site 5: 35 kW
- **Price per Watt:** \$2.50/w
- **Total Contract Cost: \$437,500**
 - **Federal ITC (30%): \$131,250**
 - **SRECs: \$52,350**
 - **Net system cost: 253,900**