Brooklyn Solar Canopy Co.

Taking solar to the next level
Urban Habitat for Solar, Space for Urban People
Overview

1. Our Story
2. Canopy Tour
3. Applications
Brooklyn, New York
The Flat Roof Challenge

- Small,
- Crowded,
- Irregular,
- Fire Code Constrained
- Competing uses (ex. decks, green roofs)
The Canopy Solution: Elevating Solar
Design

Robust

Simple

Open

Elegant

Versatile
10 Month Design Collaboration
MADE IN THE USA

Warwick, Rhode Island
November 2015: First Brooklyn Solar Canopy Installed
2018:
100 + Canopy Installations in NYC
Residential Townhomes
Small Commercial
Multifamily Co-ops, Condos and Rentals
Awards

Best of Year
Green Design 2016

Best of NYC,
Product Category (2018)

Popular Choice Winner
Roof Category (2018)

Best of Design Awards,
Smart Home Systems (2018)
January 2018:
Brooklyn Solar Canopy Co. Launch
June 2018

- NYSERDA Megawatt Block Rooftop Solar Canopy rebate introduced in ConEdison Territory

- $.30/watt for commercial meter projects < 25 KW
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Components and Assembly
Truss
Truss

Spliced for easy transport

Right Socket  Splice Bar  Center Piece
Truss

- 26’ Maximum span
- 15’ of unsupported span length
Truss

- 6’ Max module cantilever off front and back truss
- 12” Max module cantilever off side rails
# Module – Truss Ratio

<table>
<thead>
<tr>
<th># of PV Modules*</th>
<th># of Trusses</th>
<th>System Capacity (KW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-21</td>
<td>2</td>
<td>5.4-7.5</td>
</tr>
<tr>
<td>24-30</td>
<td>3</td>
<td>8.6-10.8</td>
</tr>
<tr>
<td>33-39</td>
<td>4</td>
<td>11.9-14.0</td>
</tr>
</tbody>
</table>

* Reference module: LG/SunPower 360 (60 cell)
Leg and Foot
Leg and Foot

- 13’ Max height (determined by specific project requirements)
- Width adjustable to increase and decrease height
- Point load distributed across 2-3 rafters
T-Track
T-Track

- Attached on roof surface within 18' of load bearing wall
- Cut in single or multiple segments depending on roof requirements
Rails and Fasteners

- Truss clamp with channel bolt for rapid assembly
Engineering

Materials

6000 Series Aluminum; Mill Finish [powder coat optional]

Maley Laser manufacturing facility
Warwick, R.I., 2018
Engineering

Load

23,000 lbs per truss

Maley Laser manufacturing facility
Warwick, R.I., 2018
Engineering

Windload

110 mph

Maley Laser manufacturing facility
Warwick, R.I., 2018
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Roof Decks and Amenity Spaces
Ground Mount: Carports
Ground Mount: Backyard Pergolas
Thank You

- **Video 1**: “Introducing the Brooklyn Solar Canopy”
- **Video 2**: “Solar Living”