

Solar LED Site Lighting

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Department of Public Works & Engineering
Division of Engineering & Traffic Safety
Facilities Section

Advanced Lighting Technology

- Lighting:
 - LED
 - Lifetime: 10+ years
- Batteries:
 - Lithium Iron Phosphate
 - 100% recyclable
 - Up to 5,000 charge cycles
 - Lifetime: 10+ years
- Solar:
 - High efficiency even on cloudy days



System Benefits

- Eliminates the need for grid-powered electricity in outdoor lighting
- Reduces installation costs
- Reduces greenhouse gas emissions

Pilot Program

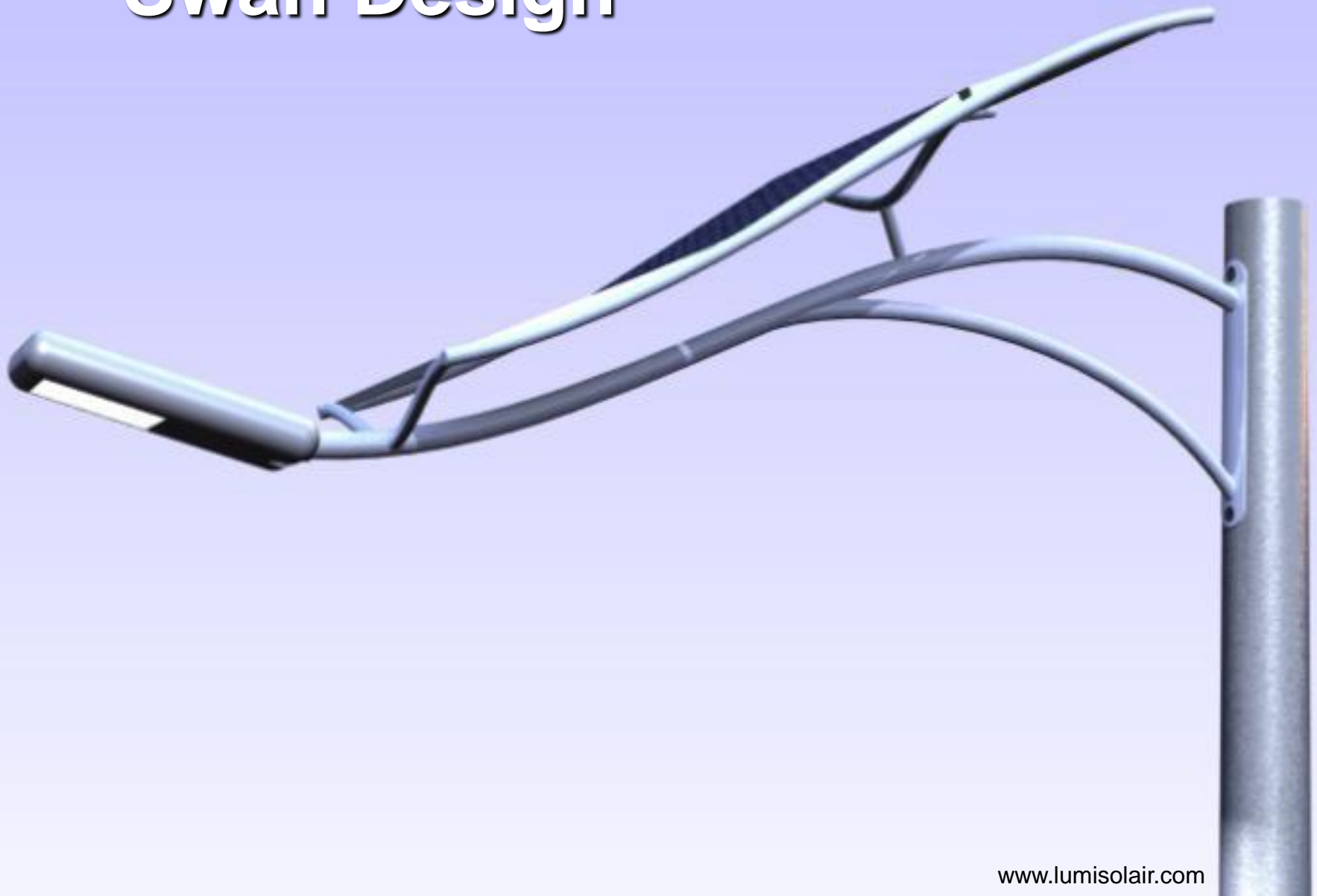
- Install Solar LED system at two locations



Western Branch Library



Swan Design



Courthouse – Monument Park



Classic Design



Goals

- To determine the feasibility of off-grid lighting for County facilities
- To reduce greenhouse gas emissions from electric generation
- To reduce electricity costs for outdoor lighting at County facilities

Potential Sites

- Highway Districts
- Belford Ferry Terminal
- Monmouth County Park System
- New construction



Solar Traffic Light Project



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SPEED LIMIT
25

CASE



834 HIGHLANDS

834

6138

859-CJA

East Rd

← 516 → Leonardville Rd

NO TURN ON RED

STOP

25



Tindall Rd →

Cherry Tree Farm Rd

LEFT LANE
MUST
TURN LEFT

STOP

35

INSURANCE VAN PELT & SONS

INSURANCE



Courtesy of LumiSolair, LLC

Next Steps

- Traffic Signal Model
- Performance and load testing
- Structural analysis
- Pilot Program



Questions?

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