

New Energy Technologies, Inc.

(OTCQB:NENE)

Advanced Energy Conference

Jacob K. Javits Convention Center – New York, NY

May 1, 2013



May 2013
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Forward-Looking Statements

This presentation contains forward-looking statements, which involve assumptions and describe our future plans, strategies, and expectations. These statements are expressed in good faith and based upon our current assumptions, expectations and projections, but there can be no assurance that these expectations will be achieved or accomplished.

Such forward-looking statements include statements regarding, among other things: (a) the potential markets for our technologies, our potential profitability and cash flows, (b) our growth strategies, (c) expectations from our ongoing sponsored research and development activities, (d) anticipated trends in the industries in which our technology would be utilized, (e) our future financing plans, and (f) our anticipated needs for working capital.

Although forward-looking statements in this presentation reflect the good faith judgment of our management, forward-looking statements are inherently subject to known and unknown risks and uncertainties. Actual events or results may differ materially from those discussed in forward-looking statements as a result of various factors. In light of these risks and uncertainties, there can be no assurance that the forward-looking statements contained in this presentation will in fact occur. You are urged not to place undue reliance on these forward-looking statements, which speak only as of the date of this presentation.

Why is SolarWindow™ Unique

- World's first-of-its-kind see-through window capable of generating electricity
- Novel, see-through, electricity generating liquid coating applied to glass and other surfaces (14 patents pending)
- Focused very specifically on commercial window applications, initially.
- SolarWindow™ Technology is tuned for good aesthetics balanced with electrical performance
- Coating can be applied by multiple methods and doesn't require high pressure or vacuum, or high temperature processes.
- Can be used in conjunction with existing energy conservation technologies such as low-E coatings.



SolarWindow™ Introduction

- See-through electricity-generating coating applied to glass windows
- Based on organic photovoltaics (OPV)
- Works with multiple light sources:
 - Sunlight
 - Artificial light
 - Reflected
 - Shaded conditions
- Architecturally neutral color
- High throughput production:
 - Spray-on, Other methods
 - Roll to Roll
 - Sheet to Sheet
- Applied at ambient conditions
- Scalable:
 - From a single solar cell 1/4 the size of a grain of rice
 - To a >144 in² array
- Currently under development at NREL
- The subject of (14) patent filings

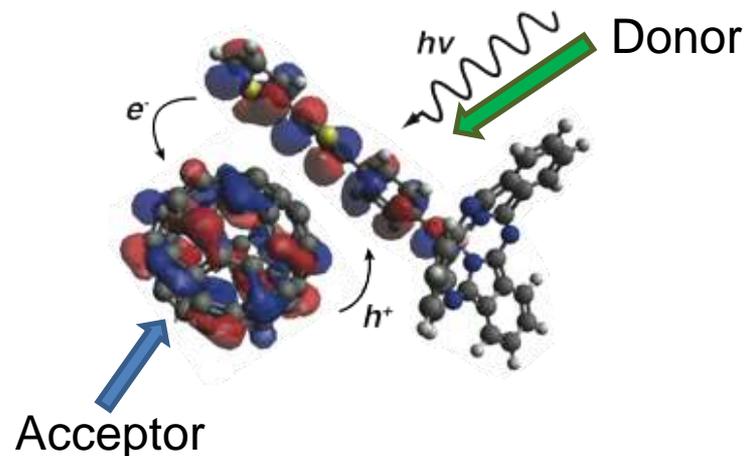


*Image of 100 North Tampa
Building, Tampa, FL*

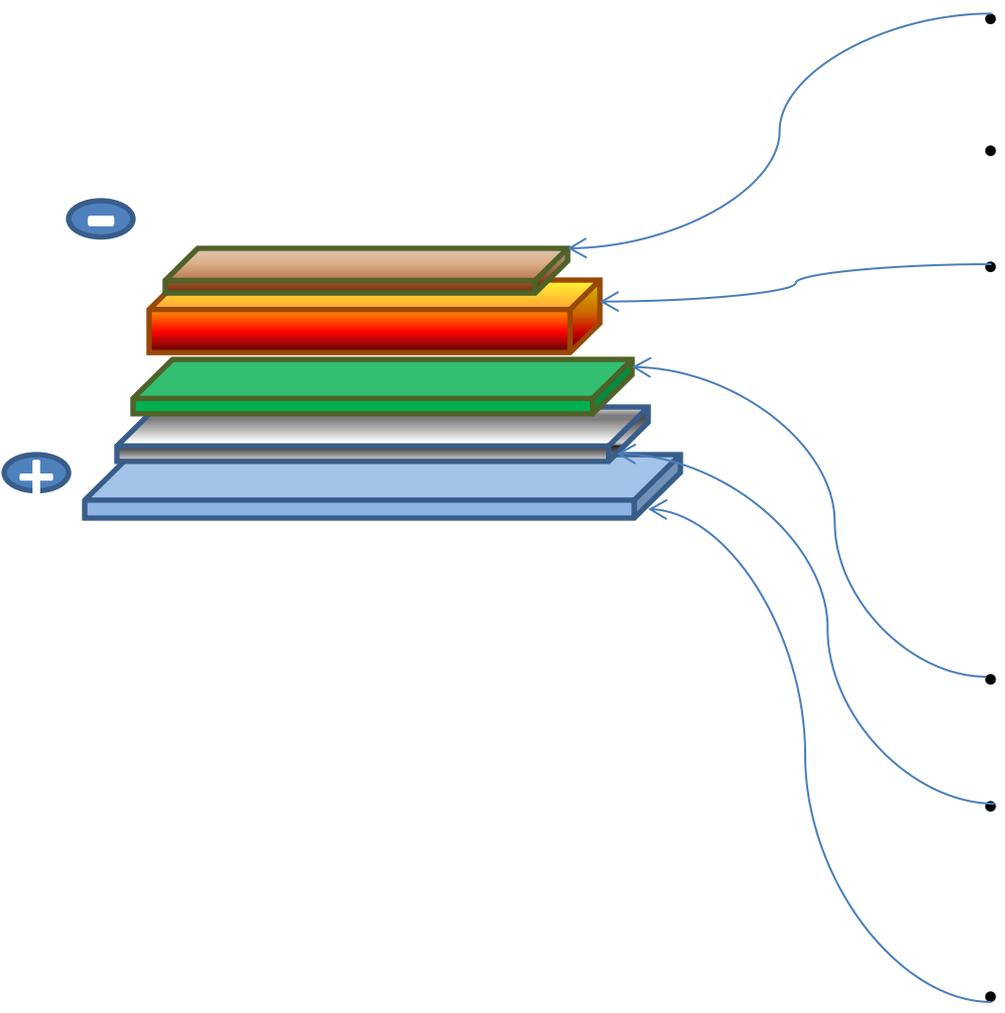
Basis for Polymer OPV

Ultrafast photo-induced electron transfer

- Conjugated polymers and a fullerene
- Discovered in 1992 ¹
- Can retain high Visual Light Transmission (VLT)
- Organic chemistry can *tune* the:
 - The open circuit voltage (V_{oc})
 - The absorption/color
- Allows develop materials for specific commercial and industrial applications
- Donor/Acceptor components can be analogous to the conventional P-N junction function of semiconductors



Generic OPV Cell Architecture



- Transparent metal contacts extract the charge from the device
- The donor and acceptor transport holes and electrons, respectively, to the contacts
- Active Layer (Color):
 - An intimate blend of photo-absorbing electron donor and acceptor
 - Ultrafast photo-induced electron transfer generates free electrons and holes
 - Polymer donates excited-state electrons to electron acceptor
- Contact layer(s):
 - Create charge selective contacts
- Transparent conductor(s):
 - Allows extraction of charge
 - Permits transmission of light
- Glass or transparent plastic substrate



SolarWindow™ Commercial Application

- Conventional PV (c-Si, thin film):
 - Higher power conversion efficiency (PCE) than current OPV
 - Limited rooftop application area, particularly with skyscrapers
 - Opaque, not see through
 - Requires elaborate racking and mounting systems
 - Produces power with natural sunlight, only
- SolarWindow™:
 - Architecturally neutral color
 - See-through, High Visible Light Transmission (VLT)
 - Abundance of vertical surface area. Windows/facades are integral parts of tall buildings
 - Adds functionality to necessary building infrastructure
 - Capable of offsetting some or all of building's power needs
 - Produces power with natural artificial light
 - Sunlight
 - Artificial light
 - Reflected
 - Shaded conditions

Distributed Generation/Micro-Grids

Why Distributed Generation (DG)?*

- Smart Grid technologies will benefit from DG
- Less vulnerable to catastrophic failures/terrorist attack
- Increased redundancy, reliability

Why Micro-Grids?

- Reduce losses from long distance transmission
- Generate/consume within the same location/facility
- Better balance between generation/use to increase efficiency
- Many enabling technologies becoming cost effective
- Also enables other new technologies to be cost effective

Why SolarWindow™?

- Planned to provide value before smart grid integration
- Creates multiple points of energy generation in the same structure. Design basis is that it will be tie-in compatible with other energy sources
- Can provide aesthetic and architectural value additions to current window configurations
- Can be used to create micro-grids within micro-grids for dedicated task specific electricity generation
- May provide Centralized Electrical Power Distribution System for Electric Emergency Action Plans
- May assist with managing risk and increasing resilience in a catastrophe

Pike Research estimates micro grids to be a \$2.5 billion market by 2015

* US Dept of Energy EPCAct SEC. 1817. Study of Distributed Generation

Summary

SolarWindow™

- Allows energy generation from a necessary building component
- Provides tunable, attractive aesthetics and architectural features
- OPV performance is rapidly developing
 - Lab scale prototypes $\geq 10\%$ PCE
 - SolarWindow™ currently the largest see-through OPV module fabricated at NREL to date
- Infrastructure upgrades will enable distributed sources of energy
- Building systems being designed to generate/use energy locally
- SolarWindow™ can provide one of many sources of energy
 - Interior
 - Exterior

SolarWindow™ may become an integral part of a building envelope and reduce or offset the need to provide large amounts of power to commercial structures



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THANK YOU

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