NEXT Energy Technologies, Inc.

Innovation Showcase Presentation Beaver Creek, Colorado | September 20th, 2018











NEXT Brings Buildings To Life



The Challenge: Net-Zero Buildings

WE LIVE IN A CLIMATE CONSTRAINED WORLD

BUILDINGS ARE A VITAL PART OF THE EQUATION

MOVING TO NET-ZERO REQUIREMENTS

40%

Buildings consume roughly
40% of global energy (more
than industry or
transportation) and represent
40% of greenhouse gas
emissions

#1

Energy is the #1 variable operating expense for commercial buildings

100%

Of new commercial buildings in Europe will be designed to near zero energy standards by 2020

European

Commission



The Opportunity: An Explosive New BIPV Glazing Market

GLOBAL TREND TOWARDS ENERGY NEUTRAL BUILDINGS

SIGNIFICANT MARKET GAP

Regulatory regimes firmly pushing towards zero net energy buildings in the US, Japan, & Europe

The market demands exceptional aesthetics along with performance and cost-effectiveness, an unmet objective in the industry

Glass will play a central role, as it represents up to 100% of commercial building surfaces

HUGE NEW MARKET FOR THE RIGHT TECHNOLOGY

\$370B

by 2035

ZERO ENERGY-RELATED PRODUCTS & SERVICES MARKET FOR GLAZING

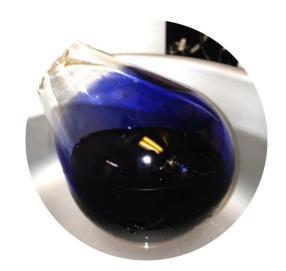
Source: Net Zero Energy Buildings Report, Navigant Research, 2017



Value Proposition: Beautiful. Transparent. Renewable Energy.

AESTHETICS Exceptional transparency Color and light transmissions fully customizable PERFORMANCE Stable materials provide 30 years of reliable energy production, even at high angles and low-light conditions ECONOMICS Reduced encapsulation & BOS costs Incremental BIPV window cost delivers 1-year payback in the U.S. Seamless integration into buildings

Game-Changing Technology & Process



Low Cost

Long Lifetimes Attractive Aesthetics

High Efficiency

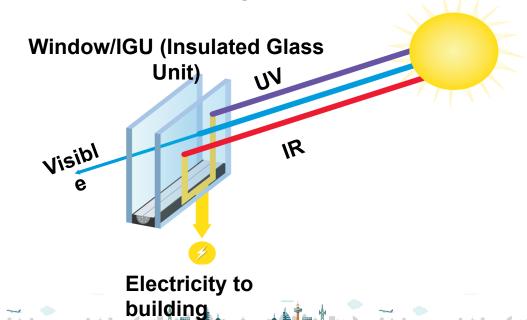
SSM-OPV = Soluble + Small Molecule + Organic + Photovoltaic

TRANSPARENT photovoltaic coatings printed on glass

Transforms UV and IR light into electricity

Eliminates encapsulation costs of solar

Seamless integration into windows





Potential Impact (Energy/Resource Savings)

LOW COST, HIGH EFFICIENCY, SEAMLESS INTEGRATION AND LONG LIFETIME DRIVE ECONOMIC VALUE FOR BUILDINGS

~\$300K Average annual electricity savings

> ~1 **year** Simple-payback

~40% Energy offset (Zero Energy Bldg.)

~36,500 MWh Cumulative Electricity produced

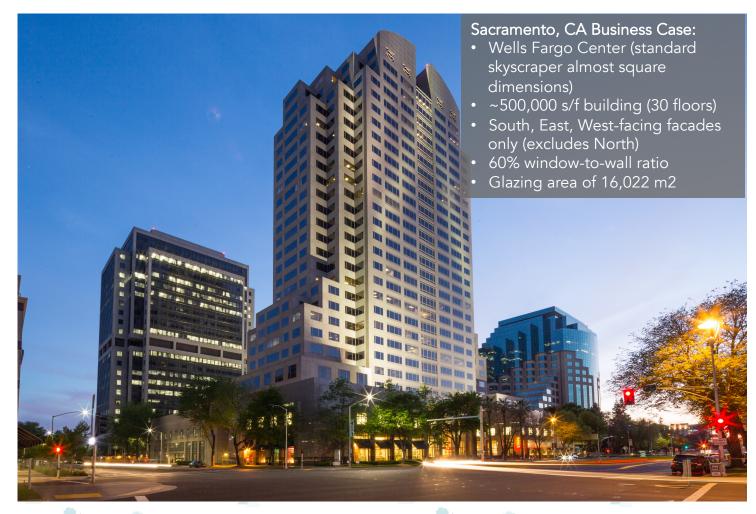
5,817

~27,100Mt Cumulative CO2 savings GHG emissions:

Passenger vehicles driven for one vear

Key assumptions

- Net Zero building energy use per sf is 6.1kwh/sf based on New Building Institute analysis
- Solar insolation based on NASA POWER
- 7% power conversion efficiency
- 0.25% annual degradation
- 30 year lifetime
- \$0.156/kWh blended electricity cost
- Source: **EPA Equivalencies Calculator**





Huge Market Opportunity and Clear Addressable Market

WITHIN A HUGE GLOBAL FABRICATED WINDOW MARKET, NEXT WILL FOCUS ON THE COMMERCIAL NEWBUILD MARKET FOR INSULATED GLASS UNITS (IGU)

\$235B (30B ft²)
GLOBAL FABRICATED WINDOW MARKET
GROWING AT 5% PER YEAR

~\$50B (~6.5B ft²)
GLOBAL COMMERCIAL IGU MARKET FOR NEWBUILD & MAJOR RENOVATION

In 2027, NEXT conservatively targets 0.8 % of this market, representing 0.5B in sales





Seamless Supply Chain Integration - At Fabricator Level

Reduces Risk | Removes Barriers | Accelerates Speed To Market



Partner Highlights:

- Fabrication partner closely involved in defining product specs based on knowledge of customer preferences and requirements
- Installs final production line at its manufacturing facility using NEXT technology
- Dedicates resources and leads sales and marketing efforts for NEXT PV-IGUs

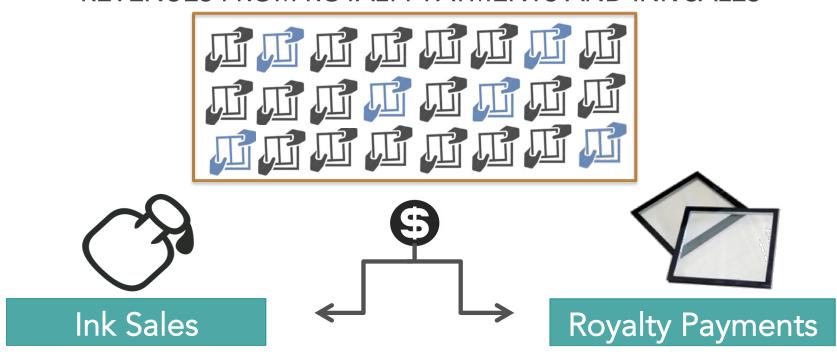




Capital Efficient Business Model

TECHNOLOGY LICENSING TO GLASS FABRICATION PARTNERS

REVENUES FROM ROYALTY PAYMENTS AND INK SALES



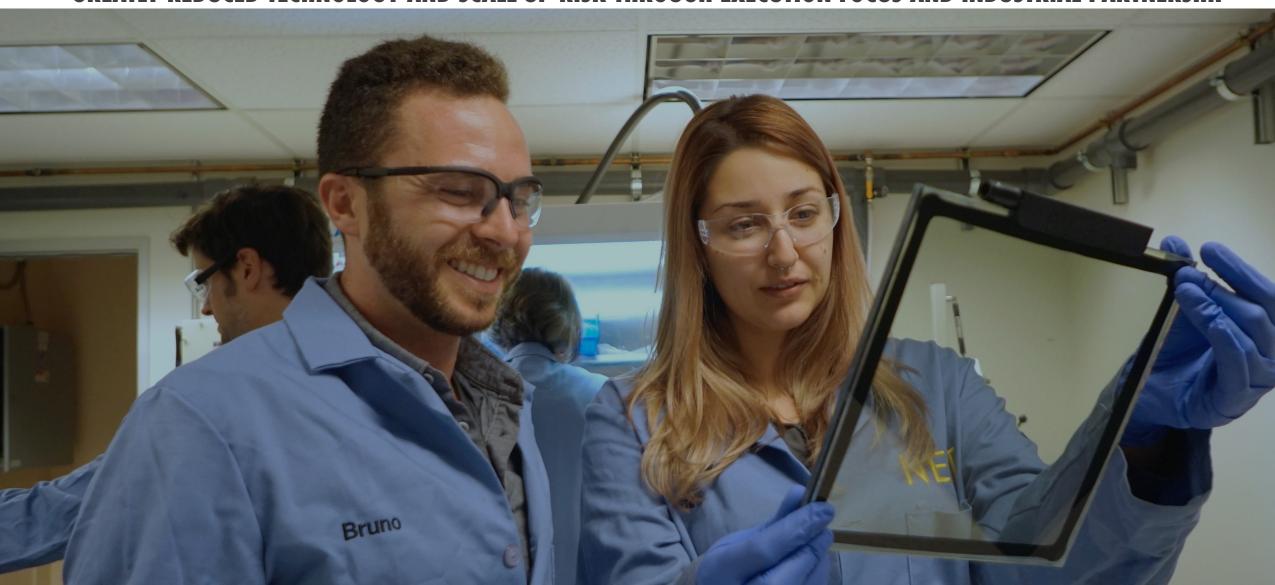
JOINT DEVELOPMENT & LICENSE AGREEMENT IN PLACE WITH TOP U.S. WINDOW FABRICATOR





Current Status: Prototypes & Scaling to Large Area

GREATLY REDUCED TECHNOLOGY AND SCALE-UP RISK THROUGH EXECUTION FOCUS AND INDUSTRIAL PARTNERSHIP



Other Milestones & Achievements

NEXT IS FUNDED BY THE U.S. DOE & NSF SBIR PROGRAMS. THESE EXTREMELY COMPETITIVE GRANT PROGRAMS ARE AN INDEPENDENT VALIDATION OF NEXT'S TECHNOLOGY, TEAM AND COMMERCIALIZATION PLAN

GRANT AWARDS AND VALIDATION













Recognized as 2018 HIVE 50 Innovator Honoree

Invited to California Energy Commission's state-wide initiative to drive energy innovation





Grand Prize (overall winner) at the 1st Sustainable Cities Tech Challenge, a global competition sponsored by the **USGBC-LA**

\$5.4 million in grant funding awarded









Next Steps CLEAR MILESTONES TO COMMERCIALIZATION

- Product Specifications
- Industry Qualifications & Certifications
- Demonstration Installations
- Demonstrate Pilot Production Line
- Additional Licensees for new regions and market segments

