

Transparent Electricity-Generating Liquid Coatings & Applications

SolarWindow Technologies, Inc.

Symbol: WNDW

Sustainability Presentation Q3 2021



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SOLARWINDOW TECHNOLOGIES, INC.

Company Overview

SolarWindow's Research & Development program includes agreements with the United States Government Laboratories.

With nearly 120 patent claims which are protected in the United States, Europe, China, and elsewhere, SolarWindow's LiquidElectricity™ promises to bring a new form of electrification to the world.



A New Form of Electrification

Transform Ordinary Surfaces into Electricity Generating Products

*14.72% Record Power Conversion Efficiency

Among highest ever published by any commercial OPV developer.

In the world of organic photovoltaics
14%+ PCE has long been considered unachievable.

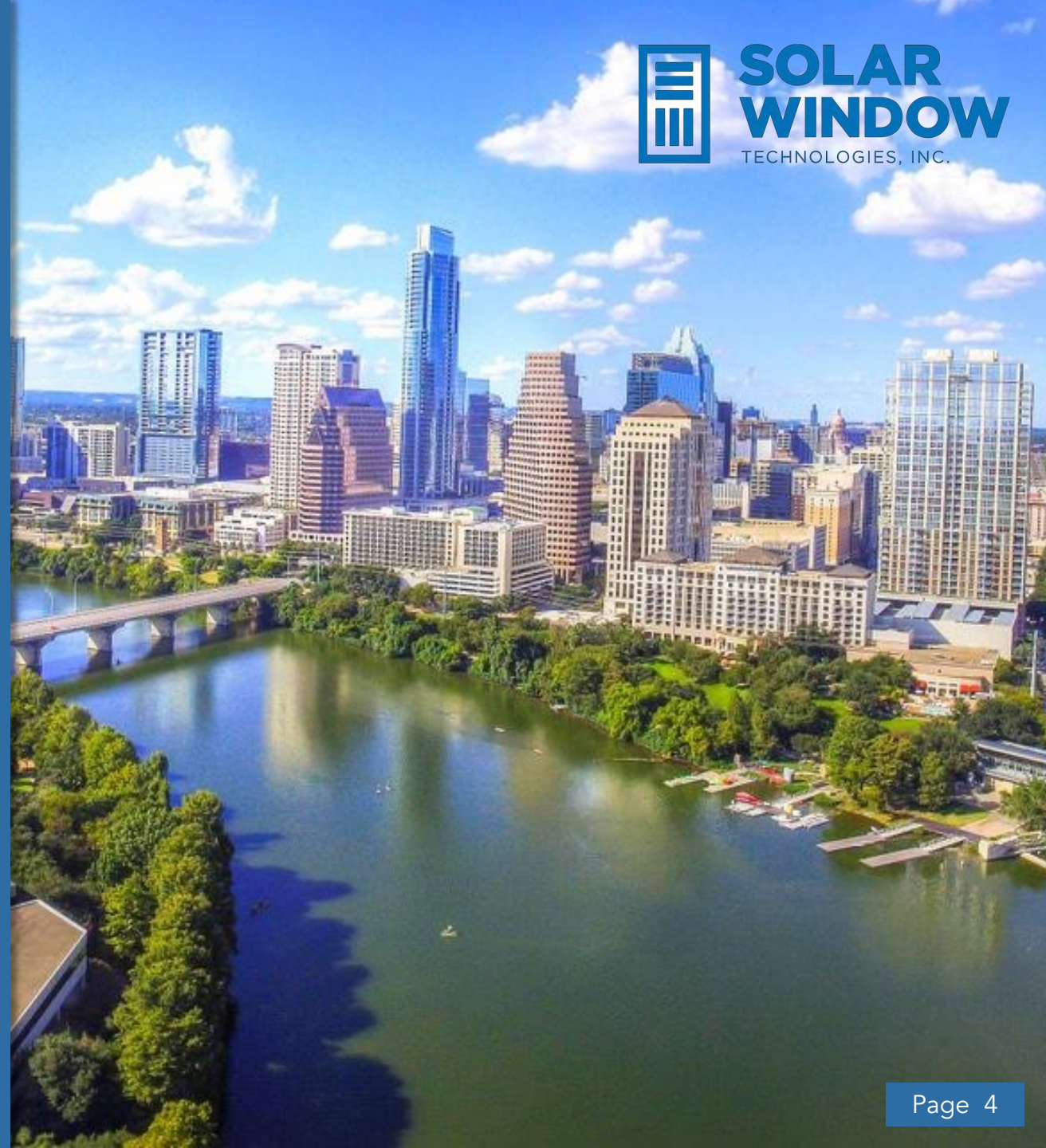
*Independently certified at the U.S. Dept of Energy National Renewable Energy Laboratory

A New Form of Electrification

Transform Ordinary Surfaces
Into Electricity Generating Products

Applying LiquidElectricity™ to Our Lives

Providing the path to a sustainable
future, and powering the world with
clean energy

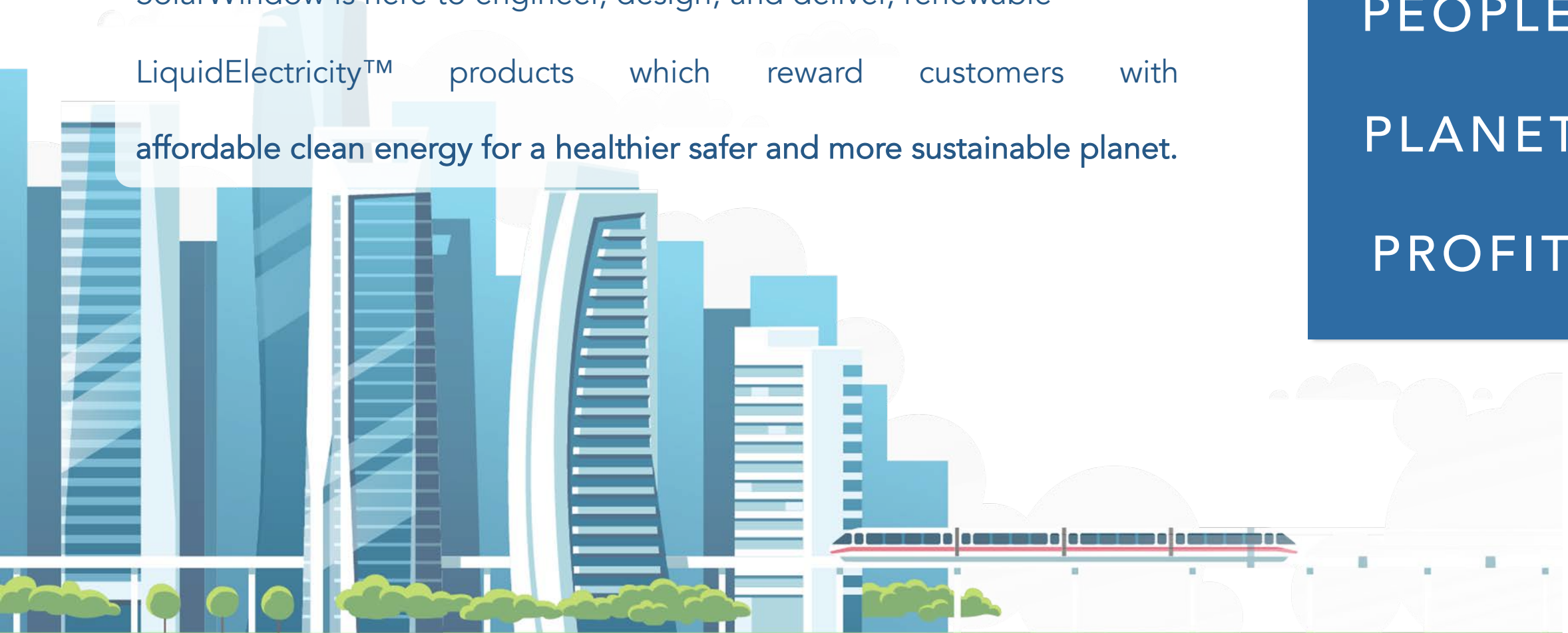


The SolarWindow Promise



SolarWindow is here to engineer, design, and deliver, renewable
LiquidElectricity™ products which reward customers with
affordable clean energy for a healthier safer and more sustainable planet.

PEOPLE.
PLANET.
PROFIT.

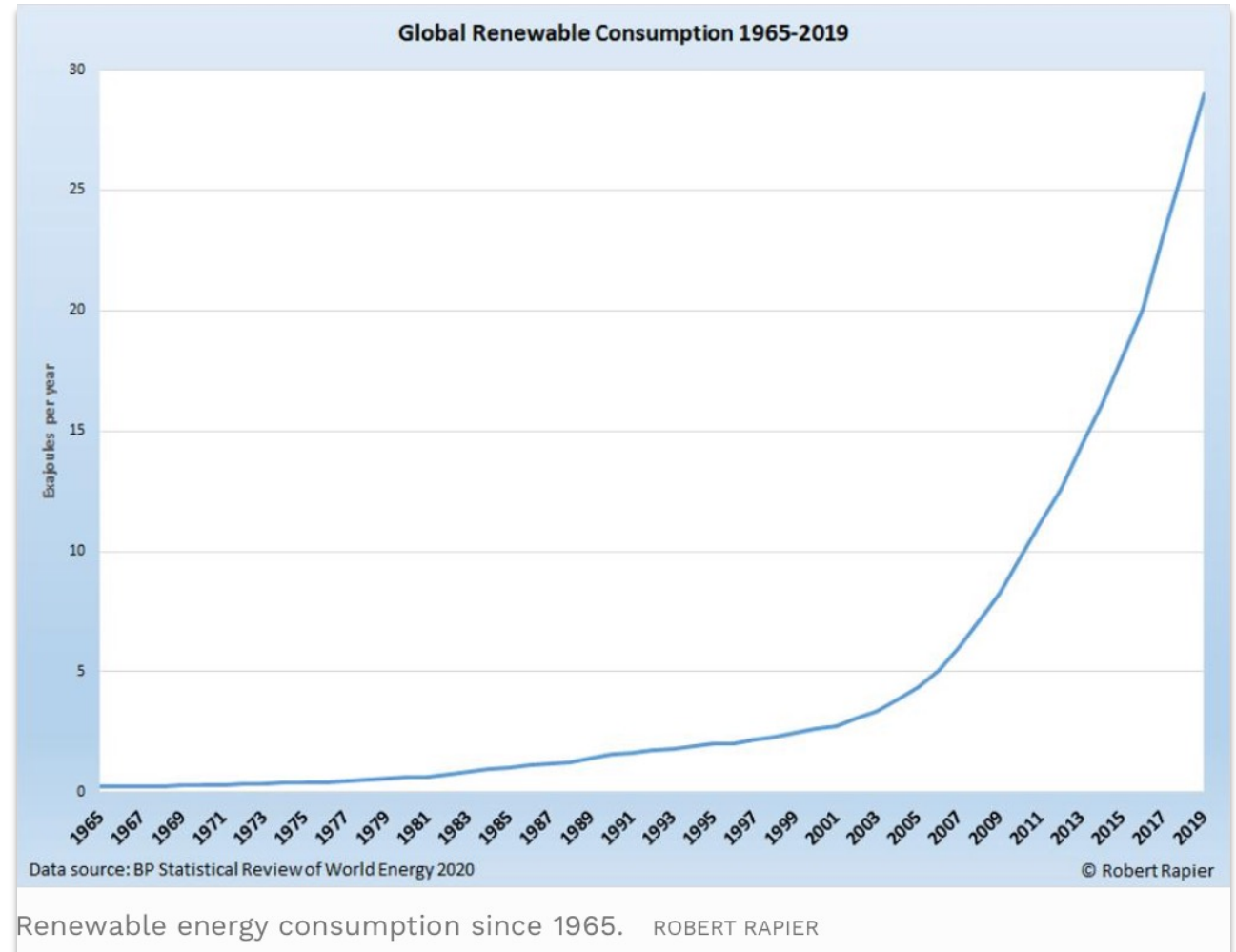




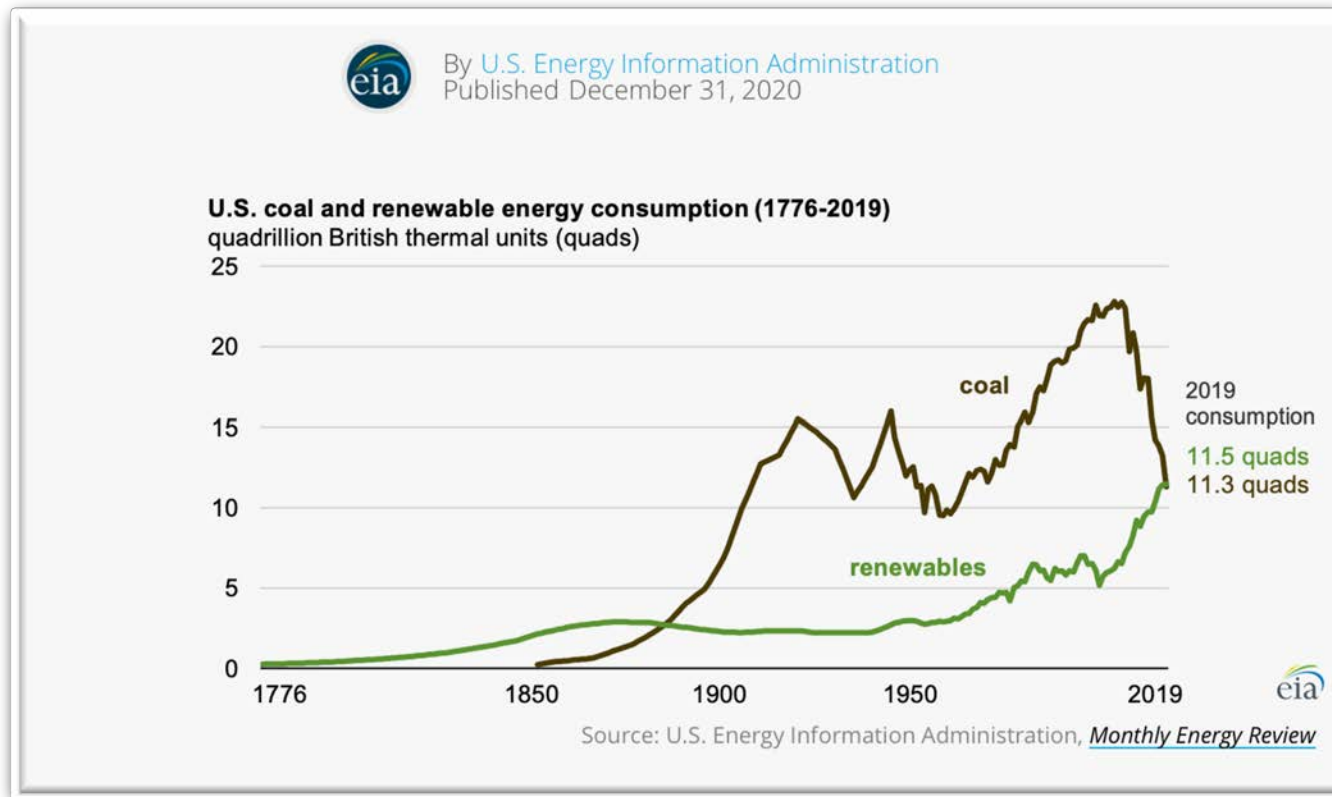
TWO MAJOR FACTORS EFFECTING GLOBAL ENERGY TRENDS

1. ECONOMIC DEVELOPMENT

2. TECHNOLOGICAL ADVANCEMENT



U.S. Renewable Energy Consumption Surpasses Coal



2019 Renewable Consumption **11.5 quads**

This trend is expected to increase
year-over-year

<https://cleantechnica.com/2020/12/31/u-s-renewable-energy-consumption-surpasses-coal-for-1st-time-in-over-130-years/>

A Future Powered by Renewable Energy



LiquidElectricity™ is a revolutionary, transparent, solar technology.

This ground-breaking technology, can be applied to glass, plastics, and films and will have the ability to generate electricity from natural, artificial, low, shaded, and reflected light. By harnessing endless amounts of solar energy, it has the capacity to produce the power you need to enhance your products immensely & sustainably

LiquidElectricity™

generate electricity when applied to

Glass, Plastics, & Films

ADAPTABLE

Generate clean electricity on transparent glass, plastic surfaces, and flexible substrates.

ULTRA THIN

Only 1/100th the thickness of a human hair.
Engineered for fast throughput manufacturing.

PERFORMANCE

Generate power from natural sunlight, shaded conditions, and artificial lighting.



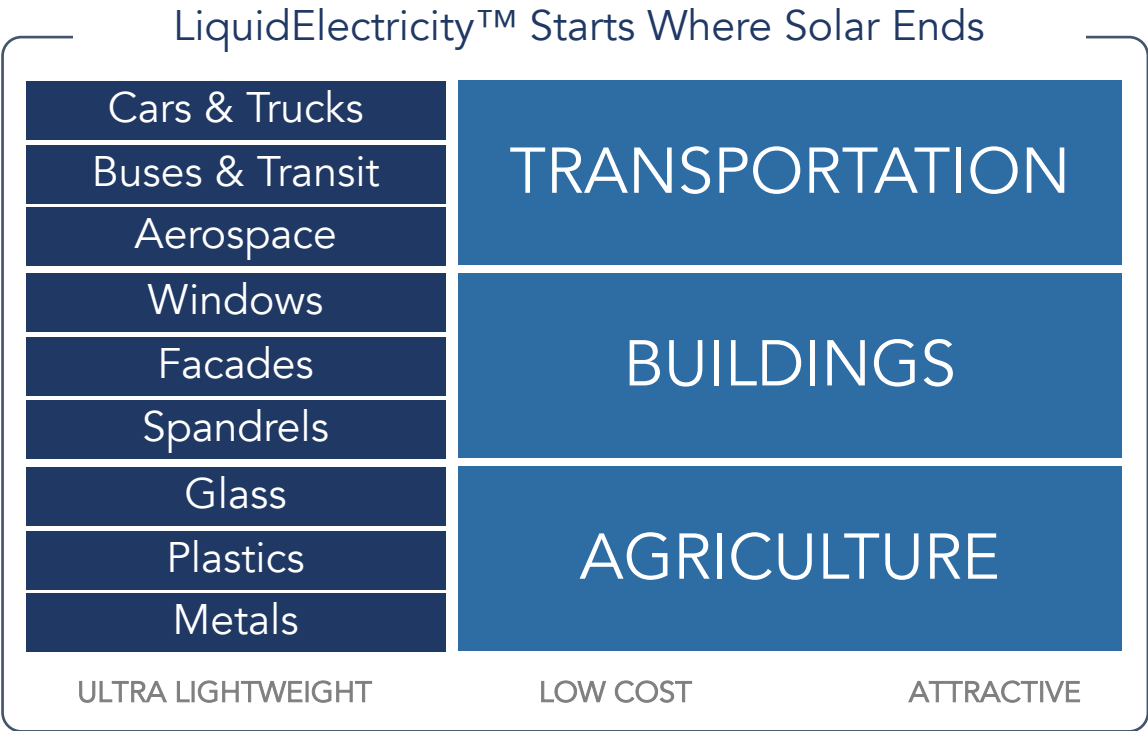


Powering a New Era of Electricity-Generating Products

Conventional Solar = Limited Applications



SolarWindow Products = Unlimited Applications



CLEARLY ELECTRIC™

A Transparent Future

Actual View Through SolarWindow™

Transparent SolarWindow™

Non-Transparent SolarWindow™

Triple Bottomline with Rapid Financial Payback



Winning with LiquidElectricity™

↓ CO₂

Win for
Environment

Single building installation can avoid 2.2 million miles of CO₂ vehicle pollution; 12-times more than solar.

~15%

Power
Efficiency

High-performance, transparent, electricity-generating coatings.

Record achievement for highest OPV power conversion efficiency published by any commercial developer.

01-YR

Rapid Financial
Payback

Under one year, industry's fastest calculated financial return for tall towers.

Works in natural, shaded low-light, and indoor light.



Based on power and financial modeling with SolarWindow installed on a 50-story building.

The Cost of Fossil Fuels

HIDDEN COSTS AND HARMFUL EFFECTS

Fossil fuels emissions are linked to global environmental harm, including global warming and climate change.

Greenhouse Gasses (GHG's)

Climate Change

Health Hazards

Economic Costs

Air Pollution



<https://yaleclimateconnections.org/2019/04/climate-change-could-cost-u-s-economy-billions/>

Benefits of Renewable Energy



Reduced
Global Warming

Reliable and
Resilient

Stable Energy
Prices

Inexhaustible
Energy

Improved Public
Health

Consistent Energy
Access

As renewable adoption increases,
environmental socio-economic
benefits become clear.

A Global Shift to Renewables



Fossil Fuels Will Be
A Thing of the Past

200
COUNTRIES

Almost 200 countries from all over the world have signed to be 100% renewable by 2050.

139
ROADMAPS

139 countries have developed roadmaps to achieve 100% renewable energy efficiency in the coming years.

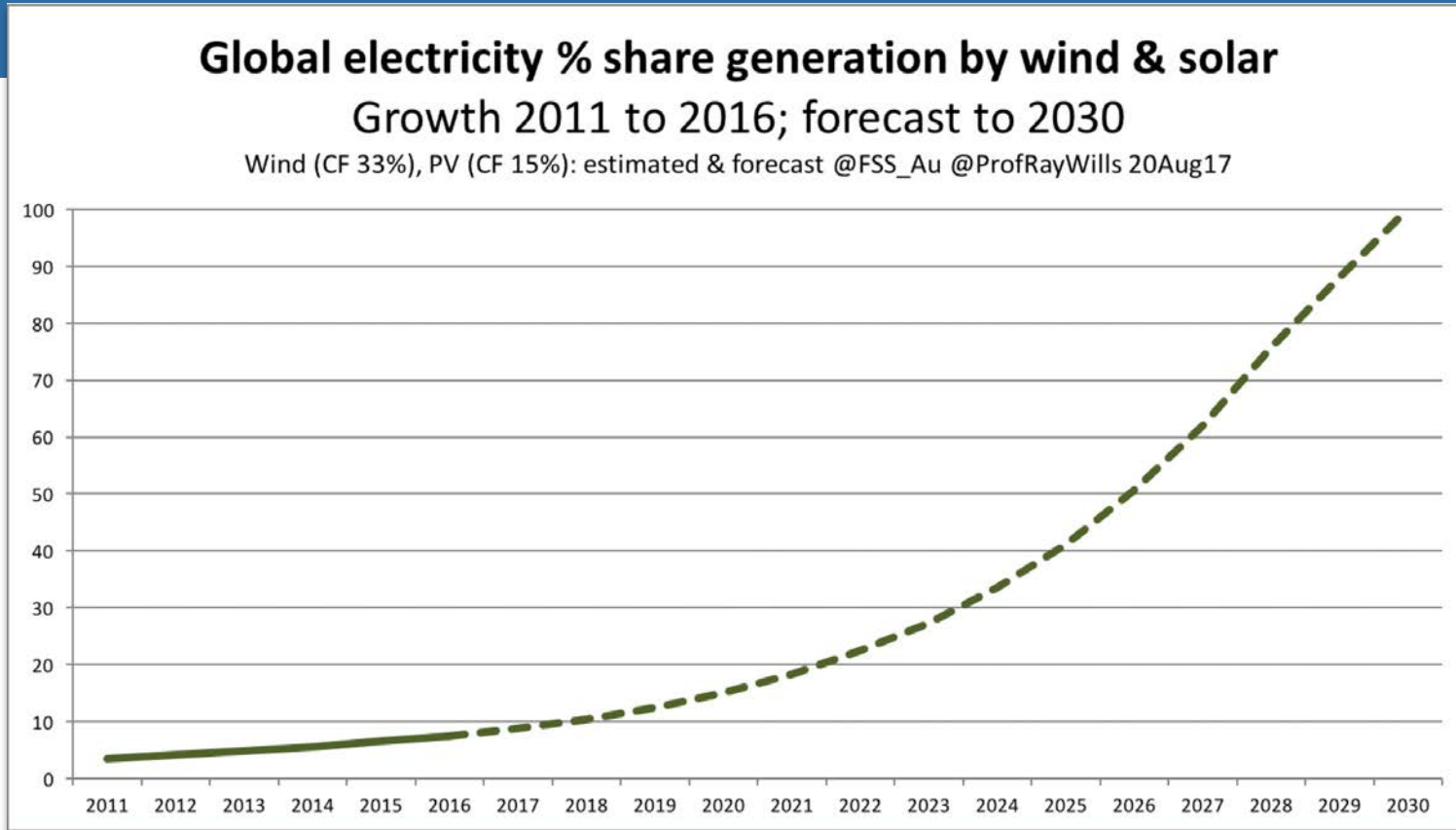
100%
RENEWABLE

Researchers have found that, with current technology and industrial capabilities we could be 100% renewable by the year 2050.

Global Renewable Energy Growth in the Next 10 Years



The Train is Leaving – Time to Invest in Renewables



World Energy: 50% Renewable by 2025

1,200GW growth in the next 5 years;
equal to the total electrical capacity of the US

Solar cost to decrease by 35% by 2024

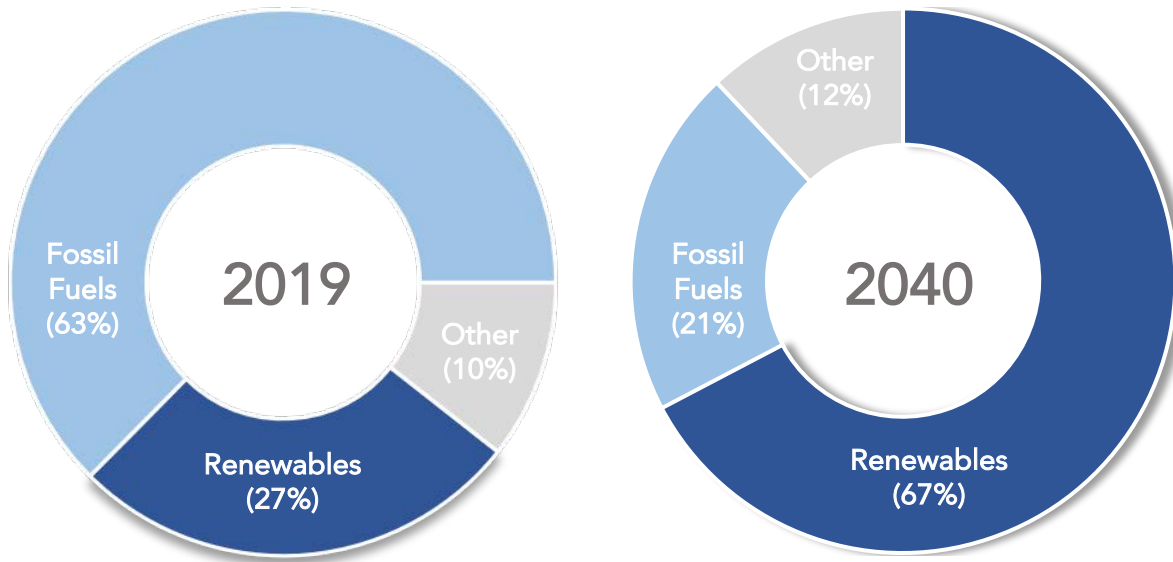
Sustainable Energy, Powering Today, Protecting Tomorrow



Renewables will be the Dominant Source of Energy by 2040

Accounting for 67% of Global Electricity Generation

Electricity Generation by Source



Source: IEA (Tracking Power June 2020 Report)

"Solar and Wind Capacity will Overtake both Gas and Coal Globally by 2024"

- International Energy Agency (Nov 2020)

"Solar is Now the Cheapest Form of Electricity for Utility Companies to Build"

- International Energy Agency (Oct 2020)

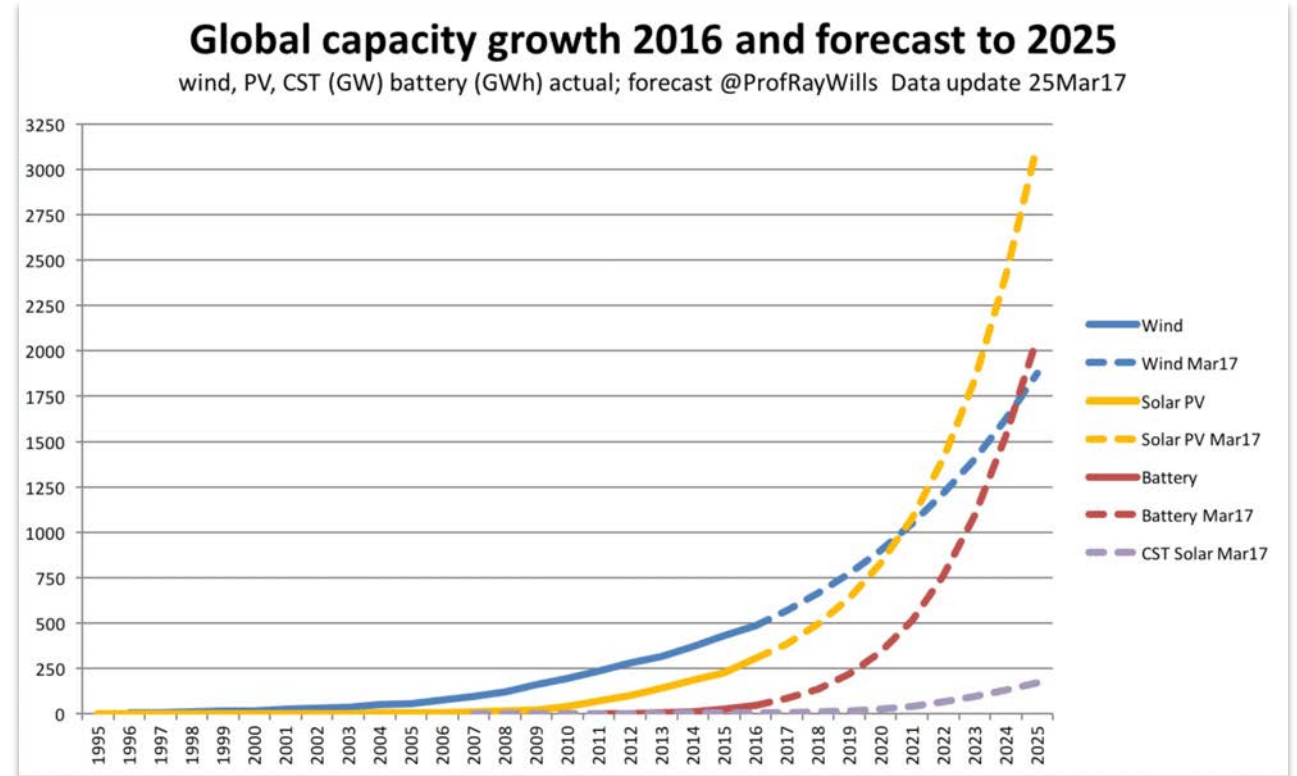
"Global investors managing nearly \$7 trillion (AUM) plan to almost double their spending on renewable energy infrastructure over the next five years."

- IEA Renewable Energy Market Update (Outlook for 2020 and 2021)

SOLAR IS THE FASTEST GROWING CLEAN ENERGY

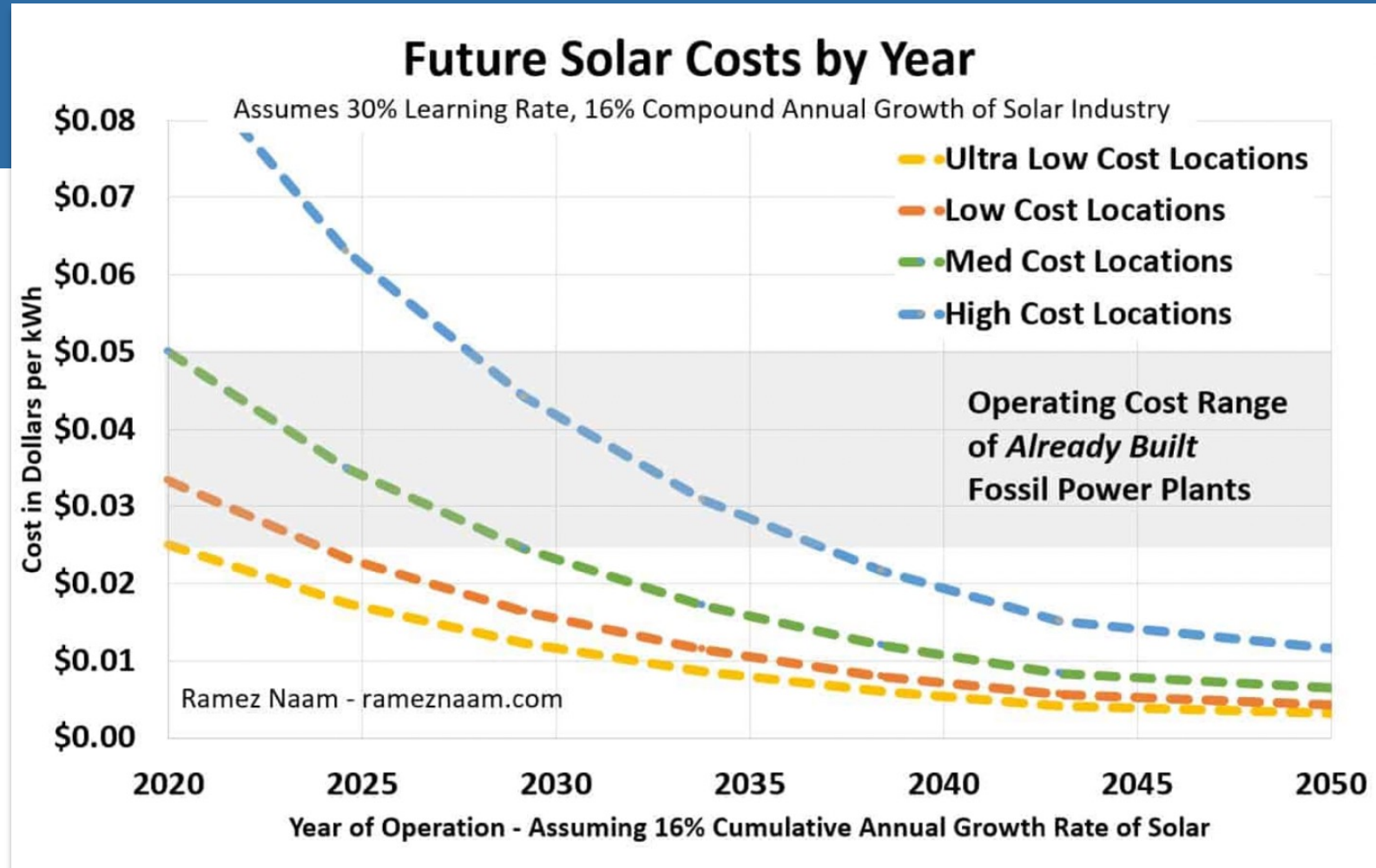


The average cost of solar energy has decreased drastically, making it one of the most competitive sources of clean energy.



<http://www.raywills.net/rtwtechadopt.html>

Solar Is An Affordable Energy Source



<https://www.theguardian.com/environment/2020/oct/22/us-renewable-energy-costs-savings-study-report>

Conventional Solar has Limited Applications

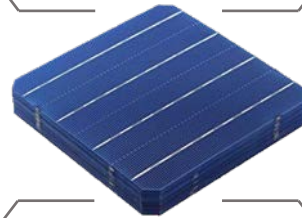
Next-generation solar technology is needed to drive further growth in the industry

"Regardless of their composition, solar energy is poised to be a significant part of our future as society transitions away from fossil fuels. As a result, we can expect increased production of solar panels in the coming decades, and potentially, large amounts of hazardous waste to boot."

- Discover Magazine, Solar Panel Waste: The Dark Side of Clean Energy, Dec. 2020

Unattractive,
Hard Form Factor

Requires Large Dedicated Footprint; Rigid, Heavy Panels



Fragile
Direct Light

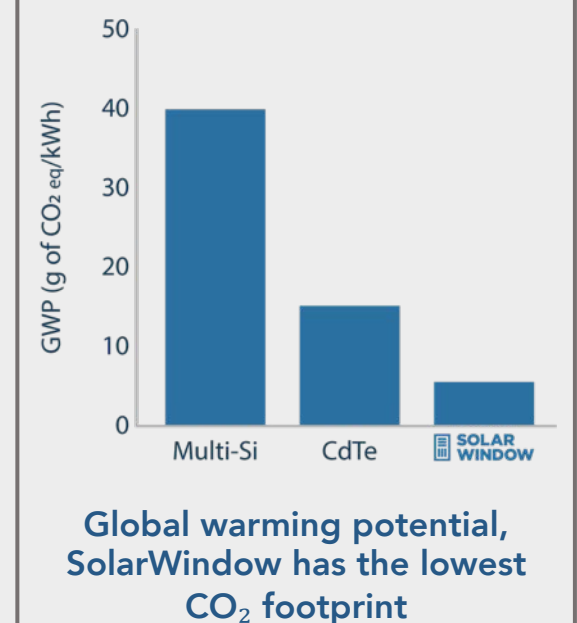
Sensitive to Damage;
Dependent Upon Direct Sunlight

Costly Materials
& Manufacturing

High Cost of Raw Materials & Manufacturing;
Energy Intensive Processes

Harmful to
Environment

May Rely on Toxic Heavy Metals;
Difficult to Recycle



LiquidElectricity™ by SolarWindow

Transform Ordinary Surfaces
into Electricity Generating Products

The Solar Energy Industries Association reported that solar is an \$18 billion industry. Solar currently supplies 3% of the country's electricity. It is expected to reach 20% by 2030.

By 2030, the sector would employ 600,000 people and add \$345 billion to the national economy while offsetting carbon emissions by 35%.

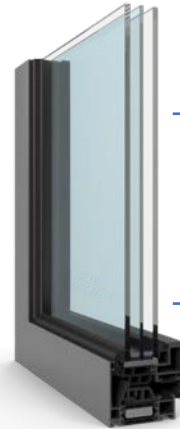
- Forbes Magazine, Nov. 2020

Transparent, Non-Intrusive

Ultra-thin; Ultra-lightweight;
Transparent; Electricity-Generating Coatings

Ease of Manufacturing

Low-Cost Materials; Solution Processable;
Roll-To-Roll and Sheet-To-Sheet;
High Throughput Manufacturing

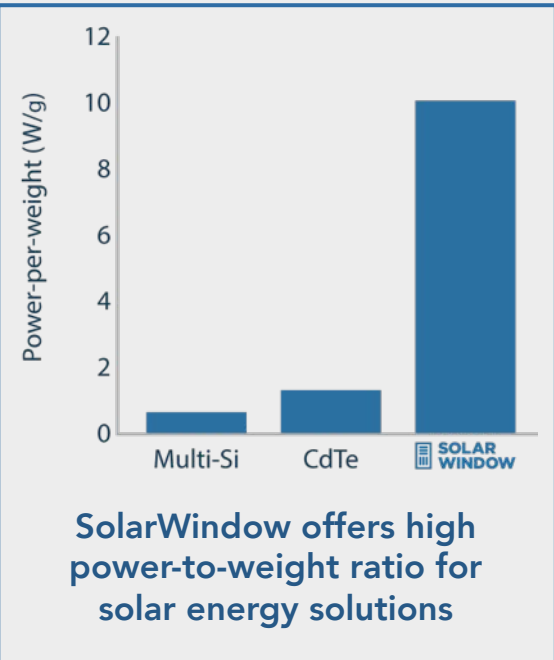


Wide Ranging Utility

Generates Power from Sunlight,
Shaded Low-light, and Artificial Lighting;
Apply to Glass, Flexible Plastics, & Films

Good for the Environment

Earth Abundant; Safe;
Raw Organic & Inorganic Materials;
Lowest CO₂ Footprint of All Solar Energy



Exponential Growth in Global Investments in Renewables



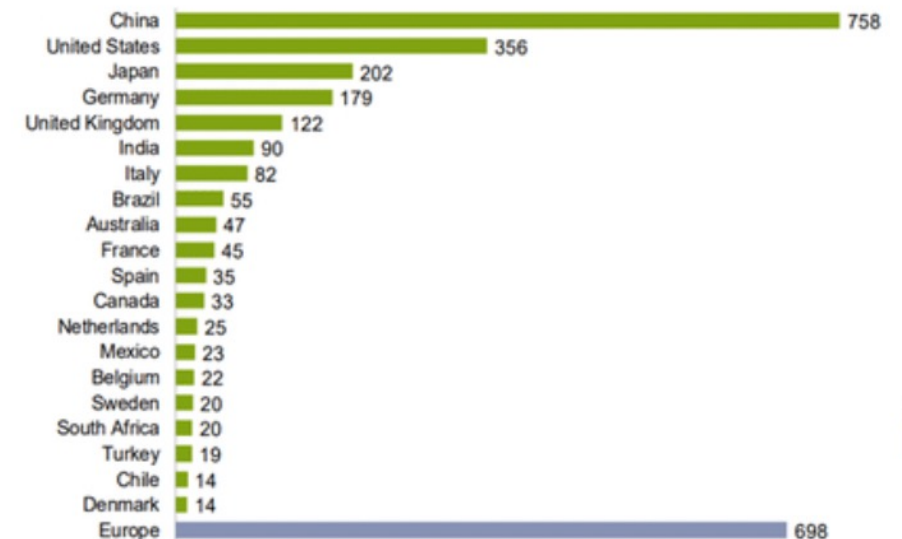
In 2019, the total new investment in renewable energy amounted to approximately \$302 billion worldwide.

China, Europe and the US are top investors in renewables

<https://www.statista.com/statistics/186807/worldwide-investment-in-sustainable-energy-since-2004/>

https://www.researchgate.net/figure/a-Renewable-energy-capacity-investment-by-various-countries-from-2010-to-the-first-half_fig1_341203774

World Superpowers are Leading the Way



a) Renewable energy capacity investment by various countries from 2010 to the first half of 2019, in United States Dollar (\$) billions; b) Global capacity in renewable power from 2004-2018 in gigawatt (GW) [2].

Market Expectations

In 2020, Global Energy Transition Investments Hit \$500 Billion



THE WORLD'S MOST INFLUENTIAL COMPANIES HAVE MADE
A COMMITMENT TO GO 100% RENEWABLE



Clean Energy Saves America \$321 Billion Per Year



Renewable & Abundant

Affordable Access, Stable Energy Prices

Reduced Dependence on Imported Fuel

Economic Development, Jobs Creation

Uninterrupted Energy Supply

Clean Energy, Reduce Air Pollution



An aggressive push towards 100% renewable energy would save Americans as much as \$321B in costs, while also slashing planet-heating emissions



LiquidElectricity™ is an Organic Photovoltaic (OPV)

OPV is solution processable, highly tunable, low-temperature manufacturable, inexpensive, and lightweight

Further, OPV has low material toxicity, cost, and environmental impact

Finally, OPV can make power in a transparent state utilizing sunlight and artificial light sources



Flexible Ultra-Thin Glass Coated Using LiquidElectricity™

Tune for Power Output by Managing Color and Transparency



Available in Variety of Colors

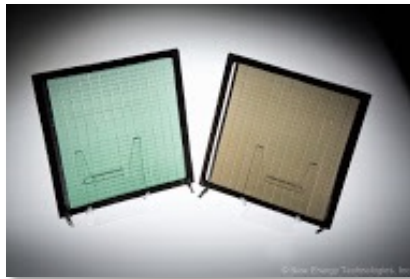


Grey

Green

Blue

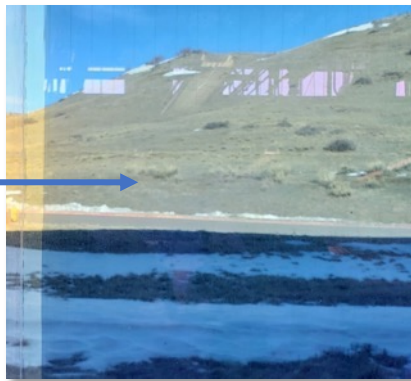
Brown



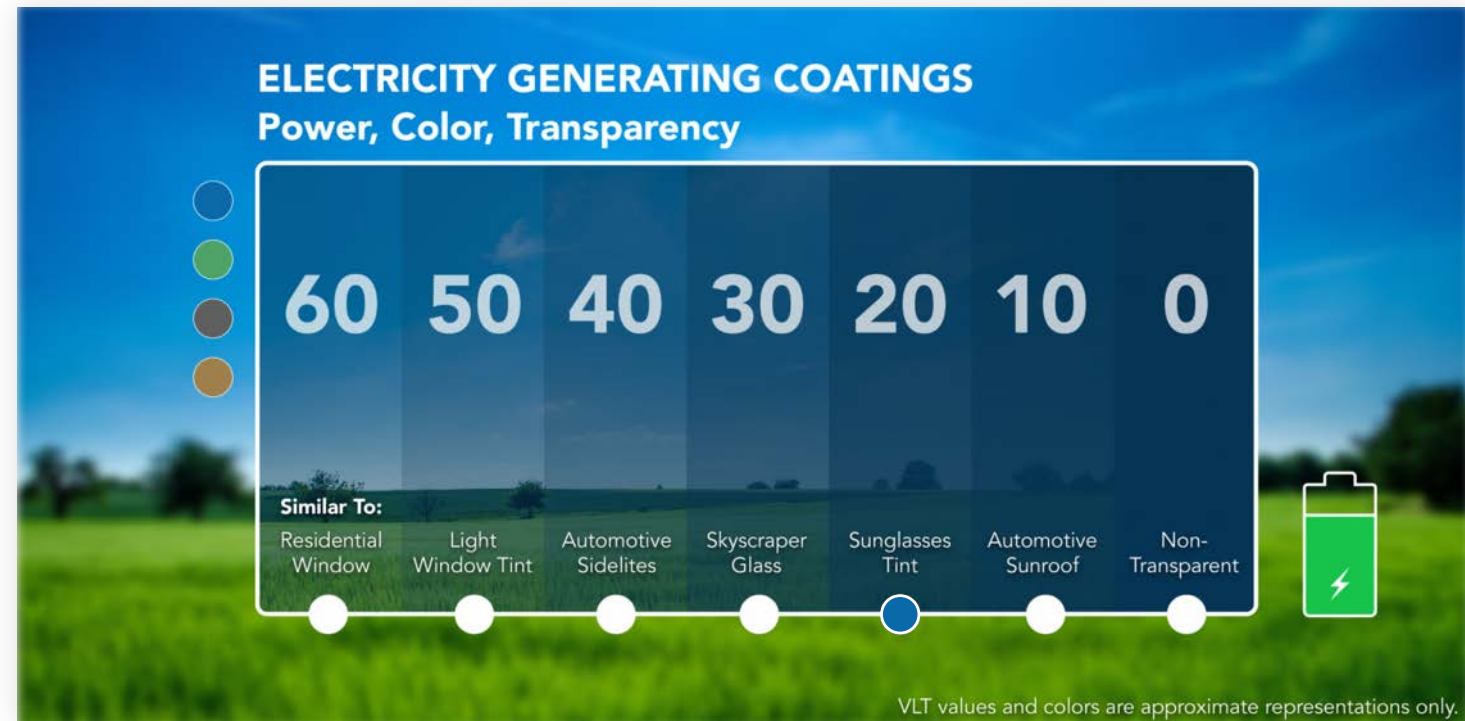
80 % VLT



35 % VLT



Deep blue colors generate the greatest power output.



Transparency (Visible Light Transmission) Ranges from 60% to 0%. Power increases as VLT decreases.

*Color and transparency are estimated illustrations. The actual and level of transparency will vary from actual coated devices.

LiquidElectricity™ is an Organic Photovoltaic (OPV)



Stacking Layers for Power

Our LiquidElectricity™ (coatings and application processes) generates electricity on glass, flexible plastics, and films.

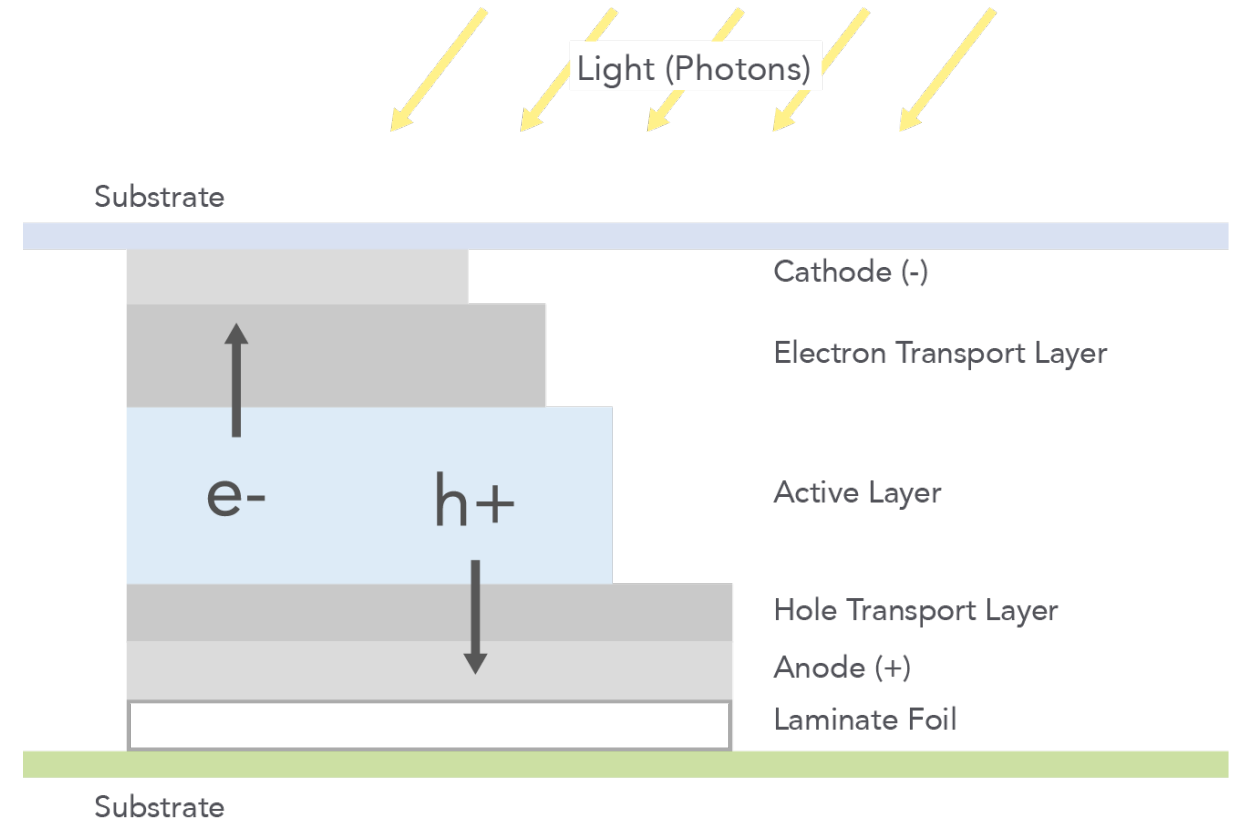
First, LiquidElectricity™ is customized for color and transparency based on the specific application, and then applied in layers to a substrate (glass, plastic, or film).

Next, light hits LiquidElectricity™, generating holes (+) which are positively charged, and electrons which are negatively charged (-).

Holes (+) and electrons (-) are attracted to the hole/electron transport layers, where they migrate through to the conductive layers known as 'anode' and 'cathode'.

Holes (+) move to the anode and electrons (-) move to the cathode.

Positive and negative charges are directed to their respective conductors, and an electrical circuit is generated, resulting in the flow of electricity.



Our Coatings Come to Life

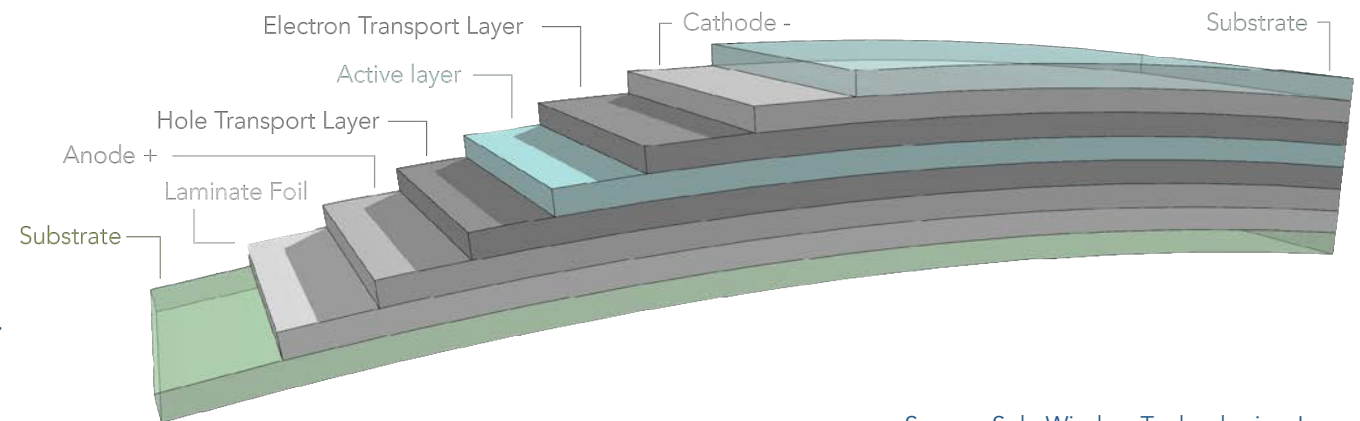


TRANSFERRING ELECTRICITY FROM GLASS TO MAKE IT USABLE

(+) (-) Currents & Circuits

Extremely flat transparent conductive oxide (TCO) wires are used to remove positive and negative currents from electrical circuits. These wires are wide enough to transfer power to thicker, more visible wires called bus bars, and subsequently onto copper wires in plastic housing.

Two wires are always part of each of our systems: one negative and one positive. When connected, power will flow to all power-using devices.



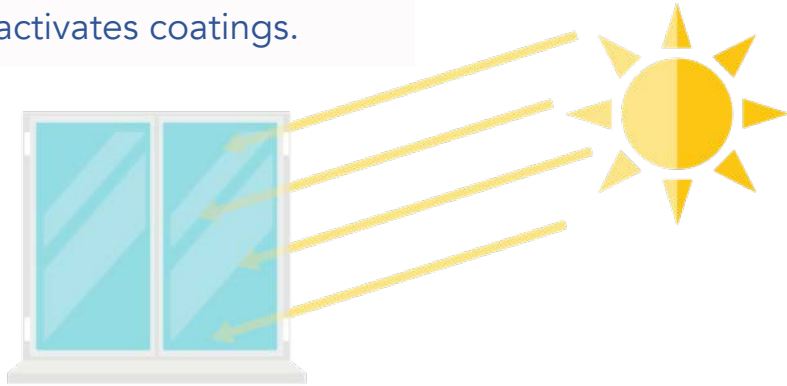
Source: SolarWindow Technologies, Inc.

How LiquidElectricity™ Comes to Life



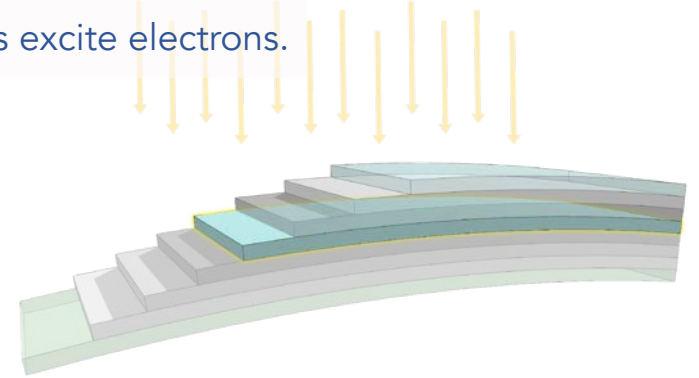
1. Light Energy is Collected

Light energy activates coatings.



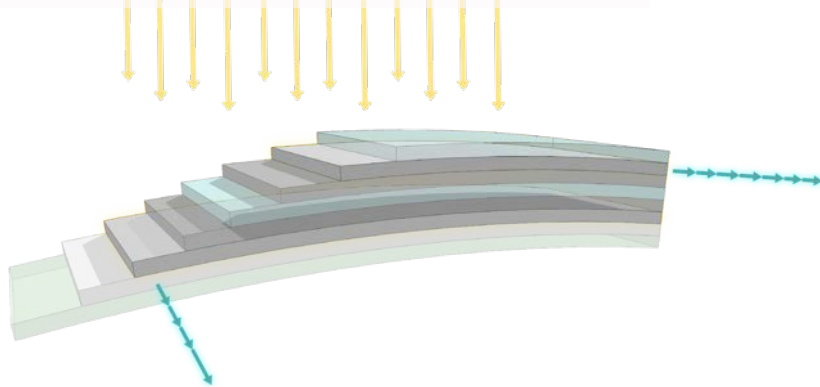
2. LiquidElectricity™ Comes to Life

Layers of light activated coatings excite electrons.



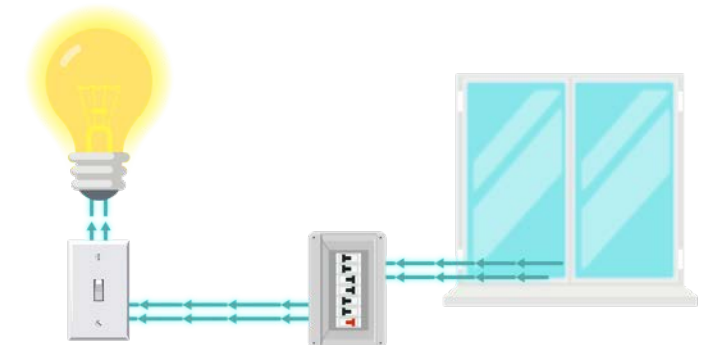
3. Electrons begin to flow

Electrons move along the Anode (+) and Cathode (-)



3. Electricity is Generated

Electricity is generated and flows to power devices.



Diverse Applications



2,563 kWh annual energy*
with electricity
generating coatings

COMMERCIAL



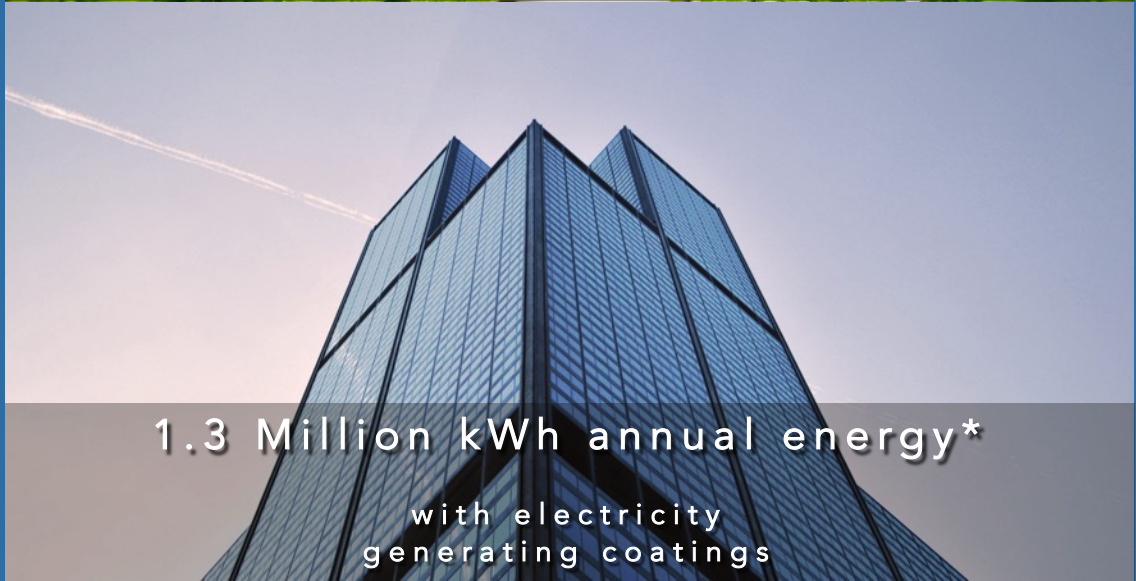
1.8 Million kWh annual energy*
with electricity
generating coatings

AGRIVOLTAIC



1,013 kWh annual energy*
with electricity
generating coatings

AUTOMOTIVE



1.3 Million kWh annual energy*
with electricity
generating coatings

ARCHITECTURAL

*These statements are based on the Company's independently validated Power Production Modeling.

THE SOLARWINDOW PROMISE



Economic and Environmental Benefits

Clean Energy

Lower Greenhouse Gasses
and Harmful Emissions

Eco-Friendly

Positive Impact on Climate
Change & Global Warming

Viability

Increased Economic Growth
with Sustainable Energy Prices

SOLARWINDOW'S COMMITMENT TO SUSTAINABLE DEVELOPMENT

Engineer, design, and deliver LiquidElectricity™ products which reward customers with affordable clean energy for a healthier, safer, and more sustainable planet.



Based on power and financial modeling with SolarWindow installed on a 50-story building.



A Next Generation Solar Solution

Revolutionizing the World's Energy Sector

bringing
LIQUID
ELECTRICITY
to life



Innovation. Powered by **SolarWindow.**

WE INVITE YOU TO BECOME A PART OF THE INVISIBLE ENERGY REVOLUTION.

Thank You

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**SOLAR
WINDOW**
TECHNOLOGIES, INC.