♥ 09hr_SC-CUER_sb0273_pt01

Details:

(FORM UPDATED: 08/11/2010)

WISCONSIN STATE LEGISLATURE ... PUBLIC HEARING - COMMITTEE RECORDS

2009-10

(session year)

Senate

(Assembly, Senate or Joint)

Committee on ... Commerce, Utilities, Energy, & Rail (SC-CUER)

COMMITTEE NOTICES ...

- Committee Reports ... CR
- Executive Sessions ... ES
- Public Hearings ... PH

INFORMATION COLLECTED BY COMMITTEE FOR AND AGAINST PROPOSAL

- Appointments ... Appt (w/Record of Comm. Proceedings)
- Clearinghouse Rules ... CRule (w/Record of Comm. Proceedings)
- Hearing Records ... bills and resolutions (w/Record of Comm. Proceedings)

(ab = Assembly Bill)

(ar = Assembly Resolution)

(ajr = Assembly Joint Resolution)

(**sb** = Senate Bill)

(**sr** = Senate Resolution)

(sjr = Senate Joint Resolution)

Miscellaneous ... Misc

^{*} Contents organized for archiving by: Gigi Godwin (LRB) (July/2011)

Senate

Record of Committee Proceedings

Committee on Commerce, Utilities, Energy, and Rail

Senate Bill 273

Relating to: creation of renewable resource credits by electric providers and granting rule-making authority.

By Senators Plale, Cowles, Leibham, Sullivan, Holperin, Taylor, Lassa, Hopper, Darling, Olsen, A. Lasee, Hansen, Kapanke, Schultz, Risser and Lazich; cosponsored by Representatives Zigmunt, Soletski, Ziegelbauer, Kestell, Gunderson, Berceau, Nelson, Milroy, Grigsby, Turner, Montgomery, Huebsch, Van Roy, Nygren, Suder, Townsend, Gottlieb, Spanbauer, Davis, Dexter, A. Ott, Bernard Schaber, Van Akkeren, Hixson, Zepnick, Honadel, Danou, Zipperer, Ripp, Benedict, M. Williams, LeMahieu and Wood.

August 25, 2009

Referred to Committee on Commerce, Utilities, Energy, and Rail.

September 17, 2009 PUBLIC HEARING HELD

Present: (7)

7) Senators Plale, Wirch, Erpenbach, Kreitlow,

Cowles, Harsdorf and Kedzie.

Absent:

(0) None.

Appearances For

- Neal Verfuerth, Manitowoc Orion Energy Systems
- Mike Potts, Plymouth Orion Energy Systems
- Jusin Nickels, Manitowoc Mayor, City of Manitowoc
- Bob Guenther Carpenters Unted
- Bob Guenther, Sheboygan Carpenters Union
- Todd Stuart, Madison Wisconsin Industrial Energy Group Inc
- Phil Prange, Madison Wiscosnin Business Council
- Elizabeth Rich, Plymouth E4

Appearances Against

- Caryl Terrell, Madison Sierra Club John Muir Chapter
- Keith Reopelle, Madison Clean Wisconsin
- Margi Kindig, Madison League of Women Voters of Wisconsin

Appearances for Information Only

• Deb Erwin — Public Service Commission of Wisconsin

Registrations For

• Ted Zigmunt — Representative, 2nd State Assembly District

- Jim Soletski Representative, 88th Assembly District
- Tony Bartol, Manitowoc Orion Energy Systems
- Gregg Barrett, Sheboygan Orion Energy
- Tina Prigge, Manitowoc Orion Energy Systems
- Mike Lanser, Cleveland LTC
- Ken Stubbe, Manitowoc Manitowoc Economic Development Corp.
- Tom Benish, Middleton Carpenters Local 1314
- Randall Reitmann, Merrimac Carpenters 314
- Brian Taffora, Madison Wiscosnin Business Council
- Mark Reihl, Madison Wisconsin State Council of Carpenters
- Ed Huck, Madison Wisconsin Alliance of Cities
- David Boetcher, Waunakee IBEW WI State Conference of **Inside Contruction Locals**

Registrations Against

Dan Kohler, Madison — Wisconsin Environment

Registrations for Information Only

Thad Nation, Madison — Coalition for Clean, Responsible, Energy for Wisconsi's

April 7, 2010 **EXECUTIVE SESSION HELD**

Senators Plale, Wirch, Erpenbach, Kreitlow, Present: (7) Cowles, Harsdorf and Kedzie.

Absent: (0)None.

Moved by Senator Cowles, seconded by Senator Wirch that Senate Bill 273 be recommended for passage.

> (7) Senators Plale, Wirch, Erpenbach, Kreitlow, Ayes: Cowles, Harsdorf and Kedzie.

(0) None. Noes:

PASSAGE RECOMMENDED, Ayes 7, Noes 0

Summer Shannon-Bradley Committee Clerk

Vote Record Committee on Commerce, Utilities, Energy, and Rail

Date: 4/4/10						
Moved by:	Seconded b	y:				
AB	243	Clearingho	ouse Rule	e		
			Appointment			

A/S Amdt						
A/S Amdt		Andrew State Control of the Control				
A/S Sub Amdt						
A/S Amdt	to A/S Sub Amdt					
A/S Amdt	to A/S Amdt					
	☐ Confirmation☐ Tabling	☐ Concurrend Nonconcur	ce	Th (2 ^H) □ Indefinite Po	ostponement	
Committee Member		Aye	<u>No</u>	<u>Absent</u>	Not Voting	
Senator Jeffrey Plale, Chair		Ø				
Senator Robert Wirch		ΧĎ				
Senator Jon Erpenbach		X				
Senator Pat Kreitlow		冱				
Senator Robert Cowles)Z				
Senator Sheila Harsdorf		XZI				
Senator Neal Kedzie		Y				
	Totals	s: 7	0			

Brady, Kevin

From:

Kunkel, Mark

Sent:

Thursday, May 28, 2009 1:44 PM

To:

'ray@FederalRelations.com'

Cc:

Brady, Kevin

Subject: RE: RPS Language for Solar Light Pipe

Ray:

In response to your voice mail, thanks for providing the info below. I think I have enough to draft something. I'll try to get something done on this toward the end of next week, as drafting the state budget is our number 1 priority for the next couple of days. If I need anything else, I will email or give you a call.

Once again, thanks for the info.

-- Mark

From: ray@FederalRelations.com [mailto:ray@FederalRelations.com]

Sent: Wednesday, May 27, 2009 10:09 AM

To: Kunkel, Mark Cc: Brady, Kevin

Subject: RE: RPS Language for Solar Light Pipe

Mark:

Thanks for the note, and for your insight and advice.

Allowing an electric provider to create a credit based on the electric provider's use of direct-use renewable energy resources listed below, and use those credits to meet the requirements of (2) (a) 2 makes sense to me. I quess you would amend current law by creating 196.378 (3) (a) 2 to give the PSC the authority to promulgate rules that allow an electric provider to do that and by modifying (1) i to read "Renewable resource credit" means a credit calculated in accordance with rules promulgated under sub. (3) (a) 1., 2. and 3?.

To answer your second question, allowing an electric provider to sell the credit to other electric providers would be consistent with (3) (a) 1.

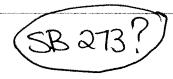
To answer your third question, the electric provider should be allowed a credit equal to 100% of the displaced amount.

To answer your fourth question, I see no reason to make ineligible any customer-sited direct-use renewable energy applications, as long as the electricity displaced can be measured and verified.

To answer your fifth question, solar light pipe technology harvests solar energy and directs that energy to the inside of a building. When the solar energy (direct solar) satisfies the lighting requirements below, the light fixtures that are integrated with the light pipe technology automatically turn off, and the electricity displaced is automatically metered in real time. I have attached a document that illustrates this process and describes the technology in more detail. Please feel free to call me with any clarifying questions.

Ray 202-783-3333







Brady, Kevin

From:

Sen.Plale

Sent:

Wednesday, July 22, 2009 10:02 AM

To:

*Legislative All Senate; *Legislative All Assembly

Subject:

Cosponsorship of LRB-2962/2 relating to: creation of renewable resource credits by electric

providers and granting rule-making authority

Attachments:

09-29622.pdf

FROM: Senator Jeff Plale, Senator Rob Cowles, Senator Joe Leibham, Representative Ted Zigmunt and Representative Jim Soletski

TO: All Legislators

RE: LRB-2962/2 relating to: creation of renewable resource credits by electric providers and granting rule-making authority

Draft is attached below

Under Act 141, Wisconsin's Renewable Portfolio Standard (RPS) requires regulated utilities in Wisconsin to obtain at least 10% of the electricity sold to customers from renewable-energy resources by December 31, 2015. Under Wisconsin's RPS, utilities are able to buy and sell "renewable resource credits" (RRCs) from one another for any electricity generated in excess of the percentage specified for a given year. The Public Service Commission has jurisdiction over Wisconsin's RPS.

Unfortunately, Wisconsin's Renewable Resource Credit Program does not allow electric providers in the State to create RRCs using direct-use renewable energy resources. This means that utilities are unable to maximize their use of renewable energy. In other words, we are currently not able to take full advantage of Wisconsin's renewable energy potential.

LRB-2962/2 would give the Public Service Commission the authority to promulgate rules to allow Wisconsin utilities to use direct use renewable energy to create renewable resource credits that can be used to meet their obligations under the RPS. Renewable resource credits will be created based on the amount of electricity displaced by the renewable energy resources covered by this language. These include direct solar applications such as solar water heating and solar light pipe technology, direct use geothermal applications and other direct use renewable energy resources.

LRB 2962/2 will enable utilities to maximize their use of renewable energy and allow Wisconsin businesses and ratepayers to save significant amounts of money. LRB 2962/2 will help create "green" manufacturing jobs and put hundreds of Wisconsin construction workers, roofers, and electricians to work installing these systems across the state.

If you would like to cosponsor LRB 2962/2 please contact Kevin in Senator Plale's office at 6-7505 or email at Sen.Plale@legis.wisconsin.gov or Jay in Representative Zigmunt's office at 6-9870 or email at Rep.Zigmunt@legs.wisconsin.gov by August 5. You will be signed on to both the Senate and Assembly bills unless you specify otherwise.





Take your Business to the Next Level

July 22, 2009

Senator Jeff Plale PO Box 7882 Madison, WI 53707-7882

RE:

Co-Authorship LRB 2962/2



Dear Senator Plale:

On behalf of the Economic Development Corporation of Manitowoc County, thank you for your co-authorship of and work on behalf of LRB 2962/2 relating to creation of renewable resource credits by electric providers and granting rule-making authority.

LRB 2962/2 will enable utilities to maximize their use of renewable energy and allow Wisconsin businesses and ratepayers to save significant amounts of money.

In essence, LRB 2962/2 is a mini-stimulus bill that will help create "green" manufacturing jobs - including production of innovative direct solar applications such as solar light pipe technology - in addition to putting hundreds of Wisconsin construction workers, roofers, and electricians to work installing these systems across the state.

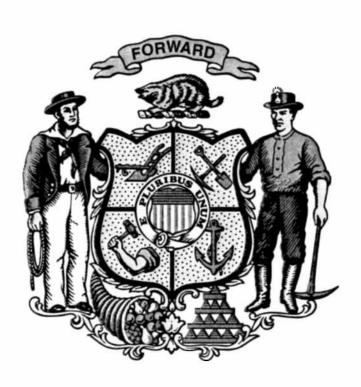
Thank you for your leadership on this important issue.

Sincerely,

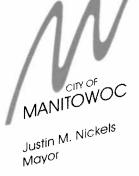
Kenneth L. Stubbe, CEcD

Executive Director

Kenneth L. Stuffe



July 23, 2009



OFFICE OF MAYOR

Senator Jeff Plale PO Box 7882 Madison, WI 53707-7882

RE: Co-Authorship LRB 2962/2 -> \$\infty\$ 27

Dear Senator Plale,

On behalf of the City of Manitowoc, I want to thank you for your co-authorship of - and work on behalf of - LRB 2962/2 relating to creation of renewable resource credits by electric providers and granting rule-making authority.

LRB 2962/2 will enable utilities to maximize their use of renewable energy and allow Wisconsin businesses and ratepayers to save significant amounts of money.

In essence, LRB 2962/2 is a mini-stimulus bill that will help create "green" manufacturing jobs – including production of innovative direct solar applications such as solar light pipe technology – in addition to putting hundreds of Wisconsin workers, roofers, and electricians to work installing these systems across the state.

Thank you for your leadership on this important issue.

Date

Justin M. Nickels – Mayor

City of Manitowoc







WISCONSIN STATE LEGISLATURE





City of Kiel

July 24, 2009

City of Manitowoc

City of Two Rivers

Town of Cato

Town of Centerville

Town of Cooperstown

Town of Eaton

Town of Franklin

Town of Gibson

Town of Kossuth

Town of Liberty

Town of Manitowoc

Town of Manitowoc Rapids

Town of Maple Grove

Town of Meeme

Town of Mishicot

Town of Newton

Town of Rockland

Town of Schleswig

Town of Two Creeks

Town of Two Rivers

Village of Cleveland

Village of Francis Creek

Village of Kellnersville

Village of Maribel

Village of Mishicot

Village of Reedsville

Village of St. Nazianz

Village of Valders

Village of Whitelaw

Senator Jeff Plale

P.O. Box 7882

Madison, WI 53707-7882

RE:

Co-Authorship LRB 2962/2 --

Dear Senator Plale:

On behalf of The Chamber of Manitowoc County, thank you for your co-authorship of and work on behalf of LRB 2962/2 relating to creation of renewable resource credits by electric providers

and granting rule-making authority.

LRB 2962/2 will enable utilities to maximize their use of renewable energy and allow Wisconsin businesses and ratepayers

to save significant amounts of money.

In essence, LRB 2962/2 is a mini-stimulus bill that will help create

"green" manufacturing jobs – including production of innovative direct solar applications such as solar light pipe technology – in addition to putting hundreds of Wisconsin

construction workers, roofers, and electricians to work installing

these systems across the state.

Thank you for your leadership on this important issue.

Warm regards,

Karen Szyman

Executive Director

Kared Sym

The Chamber of Manitowoc County





To: Members of the Wisconsin State Legislature

From: Mark Reihl, Executive Director

Date: July 28, 2009

Re: LRB 2962/2 — \$\ \$\ 273 \ \)

I am writing on behalf of the Wisconsin State Council of Carpenters to encourage your co-sponsorship of LRB 2962/2 relating to creation of renewable resource credits by electric providers and granting rule-making authority.

LRB-2962/2 would give the Public Service Commission the authority to promulgate rules to allow Wisconsin utilities to use direct use renewable energy to create renewable resource credits that can be used to meet their obligations under the RPS. Renewable resource credits will be created based on the amount of electricity displaced by the renewable energy resources covered by this language. These include direct solar applications such as solar water heating and solar light pipe technology, direct use geothermal applications and other direct use renewable energy resources.

Direct solar renewable energy technologies represent a relatively new and effective way to provide free, renewable and carbon-free energy. The light pipe in particular uses direct solar energy to illuminate the inside of buildings, eliminating the need for electrical light fixtures during many of the daylight hours, thereby maximizing available energy savings, significantly reducing carbon emissions, and saving U.S. companies and government at every level millions of dollars each year.

Equally important is the fact that installation of these technologies would support thousands of construction jobs. By including direct-use renewable energy resources in the RPS, countless companies would install this technology and effectively put hundreds of our members to work. In fact, the Carpenters Union is working with Manitowoc based light pipe manufacturer, Orion to develop an installation training program that will create jobs for carpenters in Wisconsin and across the country.

Please co-sponsor and support LRB 2962/2. Your help is appreciated.



Brady, Kevin

From: Tina Prigge [tmp@oesx.com]

Sent: Tuesday, August 04, 2009 9:28 AM

To: Brady, Kevin **Subject:** CALL to sign on

Hi Kevin:

Kevin met with the following members' staff he suggests that Sen. Plale follow up with a phone call to the member asking them to sign on:

- 7/24/09 Sen. Sullivan
- 7/24/09 Sen. Lasee
- 7/28/09 Sen. Fitzgerald
- 7/28/09 Sen. Decker
- 7/28/09 Sen. Harsdorf
- 7/28/09 Sen. Kreitlow
- 7/29/09 Sen. Lehman
- 7/30/09 Sen. Ellis
- 7/30/09 Sen. Miller
- 8/3/09 Sen. Hansen

Today 8/4/09 he is meeting with the following and you may wish to follow up with phone calls tomorrow:

- Sen. Jauch
- Sen. Robson

And on Wednesday

• Sen. Lassa

And on Thursday

• Sen. Erpenbach

Tina

Tina Prigge | tmp@oesx.com | www.oesx.com Executive Assistant | Orion Energy Systems



2210 Woodland Dr. | Manitowoc, WI 54220 | ph 920.482.1978

CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL.



Brady, Kevin

From:

Brady, Kevin

Sent:

Monday, August 10, 2009 10:27 AM

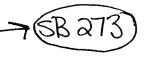
To:

Ferus, Jay, Kevin Crawford

Subject:

Co-Sponsors

Here's a list of who I have as co-sponsors of LRB 2962/2: • Let me know if am missing anyone



<u>Senate</u>

Plale

Cowles

Leibham

Sullivan

Holperin

Taylor

Lassa

Hopper

Darling

Olsen

Lasee

Hansen

Kapanke

Schultz

Assembly Zigmunt

Soletski

Ziegelbauer

Kestell

Gunderson

Berceau

Nelson

Milroy

Grigsby

Turner

Montgomery

Huebsch

Van Roy

Nygren

Suder

Townsend

Gottlieb

¥



WISCONSIN STATE LEGISLATURE



GREEN BAY ELECTRICAL WORKERS



IBEW, Local #158

1570 Elizabeth Street, Green Bay, WI 54302-2036

(920) 432-0158

August 10, 2009

Governor Jim Doyle Members of the Wisconsin State Legislature 115 East State Capitol Madison, WI 53702

RE:

LRB 2962/2

I am writing on behalf of the Green Bay Electrical Workers, IBEW Local 158 with our endorsement of the legislation now known as LRB 2962/2 relating to creation of renewable resource credits by electric providers for "direct-use renewables" and granting rule-making authority. This legislation needs to be acted upon now.

LRB 2962/2 would give the Public Service Commission the authority to promulgate rules to allow Wisconsin utilities to use direct use renewable energy to create renewable resource credits that can be used to meet their obligations under the Renewable Portfolio Standard (RPS). Renewable resource credits will be created based on the amount of electricity displaced by the renewable energy resources covered by this language. These include direct solar applications such as solar water heating and solar light pipe technology, direct use geothermal applications and other direct use renewable energy resources.

Direct solar renewable energy technologies represent a relatively new and effective way to provide free, renewable and carbon-free energy. The solar light pipe in particular uses direct solar energy to illuminate the inside of building, eliminating the need for electrical light fixtures during many of the daylight hours, thereby maximizing available energy savings, significantly reducing carbon emissions, and saving US companies and government, at every level, millions of dollars each year.

Equally important is the fact that installation of these technologies would foster jobs creation in the thousands across the state of Wisconsin including members of the IBEW, manufacturers, United Brotherhood of Carpenters and roofers organizations. By including direct-use renewable energy resources in the RPS, countless companies would install this technology and effectively put hundreds of our members to work.

Now is not the time to delay action on this important legislation.

The IBEW joins many labor and other organizations in encouraging you to support LRB 2962/2. Your leadership on this important issue is greatly appreciated.

Singerely

David Jungbluth
Business Development

Cc: Senator Joseph Leibham

State Representative Jim Soletski State Representative Ted Zigmunt State Representative Robert Cowles Kevin Crawford, Orion Energy Systems



WISCONSIN STATE LEGISLATURE





Please Sign SB 273

Manitowoc, WI 54220 Orion Energy Systems 2210 Woodland Dr.

ORION

5/5/2010 MP4 video

58 213

DEAR GOVERNOR.

LRBs legal library collection.)







Apollo™ Light Pipe

First Law of Thermodynamics

Energy can neither be created nor destroyed, it can only be converted to heat, vibration and work.

Holistic Energy Management System

Orion Energy Systems developed and integrated programmable logic controls that match supply and demand throughout the day to deliver optimal energy utilization with user-defined setpoint optionality

Maximum Light Harvest Collector

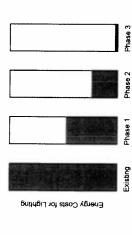
Proprietary collector dome is designed specifically to interrupt the process ensures a water-clear finish with minimal surface tension low sun angles associated with seasonal change, early morning, and late afternoon angles of incidence. Our proprietary molding

Minimal Conversion Loss

Delivers best results when demand on the energy grid is greatest Harvests sunlight and delivers usable light energy almost five times more efficient than a photovoltaic system.

Base & Peak Energy Load Reduction

platforms and controls, lighting energy consumption can be reduced to near zero. With complete integration of the Orion Power Technology



Phase 1 - Switch from HID to Orion HIF fixtures Phase 2 - Incorporate Orion controls

Phase 3 - Install Apollo Light Pipes

Orion Virtual Power Plant

Control, measure and verify all phases using the Orion Virtual Power Plant for the maximum in energy and cost savings, It also provides verifiable accountability for innovative financing plans and carbon emissions trading.

Glazing Quality Acrylic Collector Dome

Patent-pending process to manufacture an acrylic dome with the highest possible transmission rating.

construction grade materials. No galvanic corrosion or One-piece .080 spun aluminum roof flashing ensures a waterproof installation. All components are made of Seamless Flashing rusting is possible.

Light Pipe Reflector Tube

Large diameter aperture made of highly polished material provides over 98% total reflectivity. **Proprietary Diffuser**

Delivers maximum zonal cavity light distribution.

Patents Pending

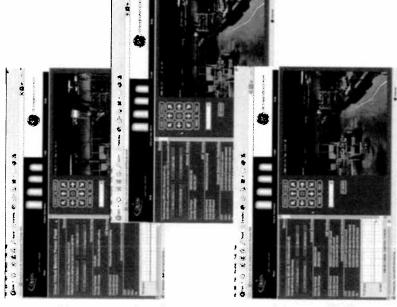
Base Load Reduction Phase



Measurable and Verifiable

500 are using Orion technology to deliver millions of dollars in annual facility. The ultimate validation is the fact that over 75 of the Fortune show the improved light quality and verify energy savings for your The base load energy reduction project starts with a circuit test to savings without compromise.

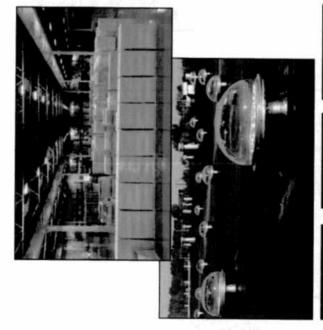
Peak Demand Response Phase II



Wireless Peak Load Shedding

You can't manage what you can't measure. The price of peak power is becoming more expensive as utilities reach their reserve margin. This measurement and verification system will allow you to understand your energy use in real time and be responsive to your peak load demands.

Off The Grid Phase III





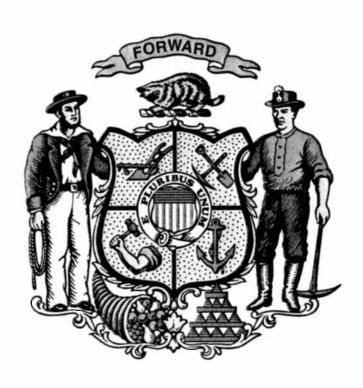




Direct Renewable

renewable technology. There is no conversion loss because you the light pipe into the Orion High Performance Lighting system in We will work with your local roofer and introduce you to direct are leveraging the natural light from the sun. We will integrate order to provide maximum peak load savings.





SOLAR LIGHT PIPE TECHNOLOGY IS A RENEWABLE ENERGY TECHNOLOGY

Orion Energy Systems knows energy efficiency. Their energy efficient lighting fixtures reduce electricity demand by 50-60% while supplying twice as much light. The reason Orion's lighting fixtures are considered energy efficiency is because they use less electricity to do a job, and that job is to illuminate the inside of a building. Orion's solar light pipe technology, on the other hand, uses solar energy (the sun) to do the same job, to illuminate the inside of the same building.

To be more precise, energy efficiency is about getting more output for less input. For example:

- When you make a car more efficient, you get more miles for the same tank of gas.
- When you make a light fixture more efficient, you get more light for less energy.
- When you make a business more efficient, you get more widgets for same capital expenditure.

Solar light pipe technology provides facility illumination over a period of time from an entirely new source (solar power) versus traditional approaches. Therefore, the light pipe is not about getting more output from less input, but the same amount of output (light) from an entirely new input (solar radiation).

It is also worth noting that the electricity displaced by direct solar energy can be physically metered, while energy efficiency is normally measured using stipulated savings factors.

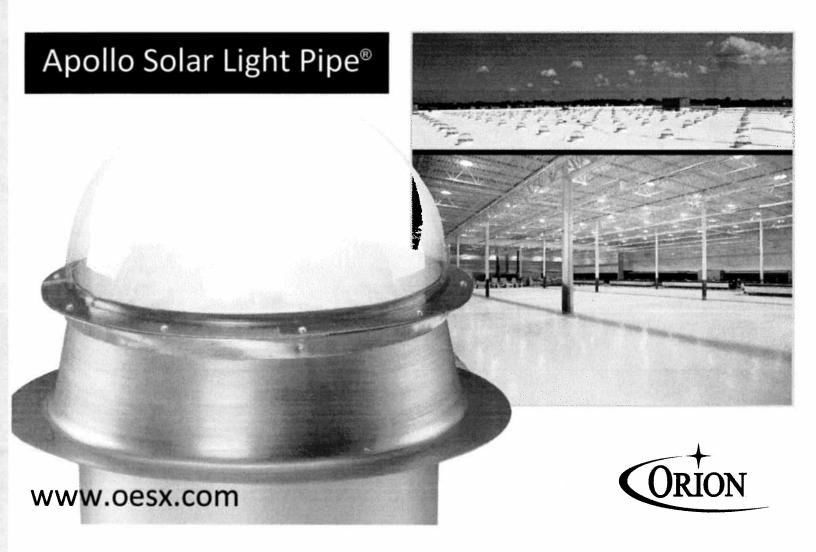
Solar Light Pipe Technology: Purest Form of Solar Energy Available

In a sense, direct solar renewable energy applications such as solar light pipe technology create the purest form of renewable energy available. Because solar light pipe technology does not require that solar energy be converted into electricity, there is not a conversion loss, and because the solar light pipe is sited at the load source, there is there a transmission loss. In other words, direct solar renewable energy applications such as solar light pipe technology maximizes the use of the sun's energy, and in so doing, meet the fundamental goal of a national renewable energy standard: to significantly reduce carbon emissions.

Practical Benefits of Solar Light Pipe Technology

Direct solar renewable energy applications such as solar light pipe technology will lead to lower, not higher electricity rates, and these technologies will help companies significantly lower their electricity bills, which makes this an economic development engine. Further, direct solar renewable energy technology can be utilized anywhere in the country, even where other renewable energy resources may be scarce. Not only that, including direct solar renewable energy applications in the RPS will put thousands of roofers, electricians and other contractors to work across the US and in Wisconsin.

Energy derived from these direct solar technologies is generally measured by assessing the amount of fossil fuel consumption they displace; or by measuring the quantity of renewable energy certificates to which the user is entitled determined by the equivalent kilowatt-hours saved.



Contact:

Ray Bucheger, Orion Energy Systems
Ray@FederalRelations.com | 202-783-3333

Kevin Crawford, Orion Energy Systems kmc@oesx.com | 920.917.9119