

## Valley Waste Resource Management Kentville, Nova Scotia



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project	Valley Waste Resource Management
client	Valley Waste Resource Management Authority
architect	Solterre Design: Keith Robertson, Jennifer Corson, David Gallagher
lighting designer	Outside! Planning and Design Studio
electrical planning	CBCL
photographer	Solterre Design

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Modifications are possible due to the constant development and improvement of LED technology.

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Selux Corporation, 5 Lumen Lane, P.O. Box 1060, Highland, NY 12528



## Valley Waste Resource Management Kentville, Nova Scotia

The Valley Waste Resource Management Administration building in Kentville, Nova Scotia is the first office building in Canada to be certified by the international Passive House energy standard – a rigorous voluntary energy standard that dramatically reduces the energy requirements for a building. The building uses a variety of recycled and salvaged materials and less than one-third of the energy of a typical office building in Atlantic Canada. It is a candidate for LEED Gold certification under the Canada Green Building Council.

The administration building lies adjacent to the VWRM sorting and recycling depot and contains offices for staff and also serves as the meeting place for the VWRM board. With views to the Annapolis Valley to the north, it is the main point of contact with the public and serves as a focal point for facility tours.

The site has excellent solar exposure to the south – a perfect setting for the high efficiency of the Selux Discera 4 LED Solar luminaires. Selux reintroduced its solar lighting products in 2014 to offer one of the most impressive and well-designed systems available using an advanced Energy Management System (EMS) utilizing SO-Bright controls from SolarOne Solutions, allowing for custom operating profiles. Selux is proud to be an integral part of this green project that raises the bar for energy efficient architecture.



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### Solar - Off-grid luminaire options



Selux Solar lighting products were designed to offer one of the most impressive and well-designed systems available. An advanced Energy Management System (EMS) is the heart of the system - it allows for custom operating profiles, Maximum Power-Point Tracking (MPT), Run Time Extension (RTE), and Wireless Programming. All major components including luminaire, PV modules, and batteries are constantly monitored to ensure reliable operation. No lift required for diagnosing problems, checking component status, or reprogramming - the provided wireless remote does all this from the ground and can even be used as an on/off switch for the luminaire. UL listed PV modules are available up to 320W and Absorbed Glass Matt (AGM) batteries up to 352Ah maintain capacity better in cold climates. Four unique luminaires and optical systems produce precise distributions with maximum visual comfort. All parts of the system are neatly packaged to provide a clean look.

## Discera 4 LED Solar



Construction	Die cast low-copper aluminum housing with hinged door for tool-less access to optical chamber · Powered by 110-320 watts of photovoltaic power stored and supplied to luminaire by 1 or 2 solar specific absorbed glass matt (AGM) batteries
Optic	High purity, precision-formed aluminum reflector · Completely sealed optical chamber
Light Source	LED in 3000K - 5000K · 80CRI minimum
Luminous flux	Up to 6,243lm · Up to 96lm/W
Light Distribution	Type I · Type II · Type III · Type V
Mounting	Steel panel supports solar panels and storage batteries · Integrated pole fitter allows orientation independent of the luminaire
Dimensions	Discera fixture is 15 3/4" wide x 17 5/16" long x 4 1/4" high · Pole heights 12' through 18'
Finish	Tiger Drylac certified polyester powder coat finish
Options	Motion sensor · Single or double luminaire mounting
Certificates	NRTL Wet Location · 5 Year LED Warranty · 1 Year Battery Warranty · ARRA Compliant · RoHS Compliant · Union Made - IBEW Local 363 · ASTM and PCI for finish · IP66 · Dark Sky

## Avanza 450 Solar



Construction	Die cast low-copper aluminum housing with hinged door for toolless access to optical chamber · Powered by 110-320 watts of photovoltaic stored and supplied to luminaire by 1 or 2 solar specific absorbed glass matt (AGM) batteries
Optic	High precision injection molded cross-beam technology reflectors · Completely sealed IP66 optical chamber
Light Source	LED in 3000K - 5000K · 80CRI minimum
Luminous flux	Up to 4,316lm · Up to 77lm/W
Light Distribution	Type III Narrow or Wide · Type V
Mounting	Steel panel supports solar panels and storage batteries · Integrated pole fitter allows orientation independent of the luminaire
Dimensions	Avanza fixture is 16 11/16" wide x 20 3/4" long x 4 1/16" high · Pole heights 10' through 18'
Finish	Tiger Drylac certified polyester powder coat finish
Options	Motion sensor · Single or double luminaire mounting
Certificates	NRTL Wet Location · 5 Year LED Warranty · 1 Year Battery Warranty · ARRA Compliant · RoHS Compliant · Union Made - IBEW Local 363 · ASTM and PCI for finish · IP66 · Dark Sky
[en:]	Exterior

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## Inula Bollard Solar



Construction	Die cast low-copper aluminum extruded housing · Stainless steel fasteners · High-impact UV-resistant encapsulated mono-crystalline solar module
Optic	High flux White LEDs mounted to a metal core PCB · Precision-injection molded lenses inside of a completely sealed optical chamber
Light Source	LED in 3000K or 4500K · 80CRI minimum
Luminous flux	Maximum 4W · 102lm - 205lm · Luminaire efficacy up to 82lm/W
Light Distribution	1Q · 2Q90 · 2Q180 · 3Q · 4Q
Dimensions	Ø8" · Overall bollard height 1 1/2' through 4'
Finish	Tiger Drylac certified polyester powder coat finish
Options	Ground Screw · 3 lighting profiles to choose from
Certificates	NRTL Wet Location · 5 Year LED Warranty · ARRA Compliant · RoHS Compliant · Union Made - IBEW Local 363 · ASTM and PCI for finish · IP65 · IK10 · Dark Sky
[en:]	Interior - Exterior
[en:]	M36 - M60 LED Shapes Acoustic

## SonneLiter LED Solar



Construction	die-cast, low copper aluminum housing and arm with hinged door for easy access to optical chamber · powered by 100-280 watts of photovoltaic power stored · supplied to luminaire by 1 or 2 solar specific absorbed glass matt (AGM) batteries
Optic	precision segmented aluminum reflectors
Light Source	LED 3000K, 4500K up to 30W
Light Distribution	Type I · Type II · Type III · Type IV
Options	motion sensor · single or double luminaire mounting · luminaire arm with adjustable tilt · independent rotation of luminaire and panel assembly
[en:]	Interior - Exterior
[en:]	M36 - M60 LED Shapes Acoustic

