

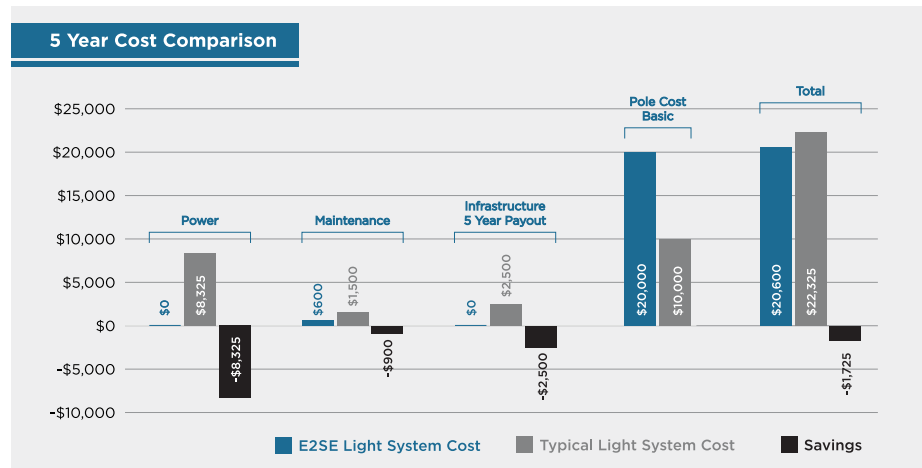
**Illuminate** your facilities, homes, and public areas with safe and secure off-grid, net-zero solutions by Elements2Sustainable Energy (E2SE). Our wind turbine, solar panel and battery combination installed on an engineered light pole provides reliable dual method of battery charging – powering two 100 watt LED lights, or 4200 – 8400 lumens depending on the configuration.

Offering 24/7 cloud-based management in partnership with Illumiant’s Smart Off-Grid controller, we deliver reliable and manageable power solutions for your lighting, security, and monitoring applications.



### Benefits of Wind and Solar Light Poles:

- Cut your power costs and ensure low maintenance costs
- Monitor the performance of the system remotely via cell or web
- Charge the batteries rain or shine, low or high wind, night or day
- Vertical axis turbines that are compact and noiseless
- No underground electrical infrastructure required



### Technical Details of Wind and Solar Light Poles:

- Custom engineered pole system supports the turbine and solar panels
- Exclusive turbine system provides 400 watts coupled with one 265 watt solar panel providing the battery system charge
- Pole and accessories are painted to ensure rust free durability
- Vertical axis turbines generate power in low and high wind situations
- Designed for over 20 year run time
- The lighting solution offers high output, high efficiency, LED lights individually tested for shock, vibration, water resistance, extreme temperatures, reliability and longevity

## Top Features - Wind and Solar Energy Light Poles



### Remote Monitoring and Programming

- 24/7 cellular and web monitoring available
- Programmable parameters



### Savings

- Does not require power company maintenance
- No expensive underground electrical grid supply or transformers
- Low power consumption with dim down and motion sensor features



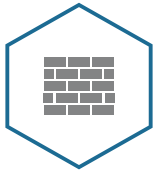
### Environmentally Friendly

- No noise
- No risk of transformer oil spillage
- No carbon footprint
- No vertical rotating blades – thus no migratory bird or animal issues



### Safety

- Safe and attractive design with no vertical rotating blades
- Grounding system allows connection to your grid or grounding rod as needed
- DC voltage
- Security camera compatible



### Structural Integrity and Quality

- Engineered poles provide wind support to the entire structure
- Poles are designed to accept standard 'in ground' bases for ease of installation
- High quality, superior components meet the highest technical standards and product longevity



### Quality Specifications

- Standard pole 27'6" high plus turbine to 31'4.5"
- Pole heights, lights and aesthetics are adjustable to customer requirements
- All metal is welded in a solid plate
- All materials are high strength

## About E2SE

At E2SE, we are changing the Western Canadian energy market – focusing on unparalleled service and value for off-grid, net-zero energy with lighting options. We deliver value and service focused on the latest technologies and technical proficiency to meet your requirements for alternative energy and high efficiency lighting.

Whatever your unique need, we stand by our remarkable service and the value of our wind turbines, solar panels and battery systems. Our systems are technologically advanced, durable, efficient, cost effective, and environmentally sound.

**Contact us** today at:

403-559-8788 or email  
[info@e2se.energy](mailto:info@e2se.energy)

