



*All of the lighting throughout the new addition is LED lighting on motion sensor to both conserve energy and to be more efficient. The initial investment was a bit more than a traditional lighting scheme but the ROI will be extremely progressive and the conservation of energy is huge for a facility that is in use 24/7.*



*The siding inside and out is a blend of real maple siding and TruGrain composite siding. The material is comprised of rice husks, agricultural waste by-product, and synthetic plastics. TruGrain is 100% recyclable and has a much longer life span than wood.*



*Rustbelt Reclamation created multiple tables for the facility. Rustbelt is the industry leader in the scalable production of furniture made from reclaimed wood. These tables were constructed from reclaimed tobacco barn wood in Kentucky.*



*All ECO-friendly gas for refrigeration needs*



*Both facilities have a cardboard baler located in the warehouse. Every department in the company helps by recycling cardboard and paper.*





# Sirna & Sons Produce Goes *SOLAR!*



## Sirna and Sons 453 kW Solar System

Our 452.5 kW system on the HQ roof provides approx. 35% of our annual electricity. Why Solar:

- Sustainability & social responsibility are important parts of Sirna's culture & values
- Reduce our carbon footprint
- Increase employee morale
- Reduce consumption of fossil fuels lowering greenhouse gases & pollution
- Reduce our operating costs - 40 years of energy at fraction of the cost
- Minimal maintenance in providing clean energy for decades

Uses 1,331 SolarWorld 340w modules.



**PV Modules** A photovoltaic module, or solar panel, is a packaged, interconnected assembly of light-sensitive semiconductors known as solar or photovoltaic cells. Solar panels are used as components in a larger system to generate electricity for commercial and residential applications.

## HOW IT WORKS?

**Inverters** An inverter is an electrical device that converts direct current (DC) to alternating current (AC). Converted AC is set to usable voltage and frequency levels through the use of appropriate transformers, switching, and control circuits.

**Measurement** An electric meter or energy meter is a device that measures the amount of electrical energy supplied to or produced by a residence, business or machine.

It will cut carbon emissions by 650 tons per year as company's clean, renewable energy replaces electricity generated by coal-burning.

**The Grid** The fundamental principles describing generation of electricity were discovered during the 1820s and early 1830s by the British scientist Michael Faraday. His basic method, called electromagnetic induction, is still used today: electrical current is generated by the movement of an electrical conductor within a magnetic field.