



1600 South Second Street  
Mount Vernon, WA 98273-5202  
ph 360.428.1617  
tel 800.622.4627  
fax 360.428.1620  
[www.nwcleanair.org](http://www.nwcleanair.org)

## 2015 Gold awards

To win Gold, businesses must comply with all applicable air quality regulations for at least three years and employ additional clean air practices in at least two of these categories: Energy efficiency; emissions reductions; air pollution prevention practices related to their specific business sector; and transportation, such as reducing commute trips, having no-idling policies and switching to cleaner vehicle fleets.

<u>Business name</u>	<u>Location</u>	<u>County</u>	<u>Clean air action highlights</u>
Chemtrade Sulex Inc.	Mount Vernon	Skagit	<b>Energy efficiency –</b> <ul style="list-style-type: none"><li>• Upgraded lighting to LED and installed daylight timers.</li></ul> <b>Emissions reductions –</b> <ul style="list-style-type: none"><li>• Reduced hydrogen sulfide emissions by adding hydrogen peroxide to liquid sulfur product.</li></ul>
Island Hospital	Anacortes	Skagit	<b>Energy efficiency –</b> <ul style="list-style-type: none"><li>• Upgraded to more efficient lighting in parking lot, cafeteria, and Admitting department, and continuing lighting upgrades throughout facility.</li><li>• Installed motion controlled lighting.</li><li>• Consolidated computer network switches.</li><li>• Installed automatic power-save mode on 600-plus desktop computers.</li><li>• Switched to virtual computer servers to reduce power used by physical servers.</li></ul> <b>Emissions reductions –</b> <ul style="list-style-type: none"><li>• Limited emergency generators to run for 45 minutes once a month, per code, or as needed.</li><li>• Shut down kitchen fans when not in use.</li><li>• Programmed chillers to ramp up slowly to run more efficiently and help limit peak usage.</li><li>• Lowered set-points for chillers.</li><li>• Purchased new HEPA vacuums to reduce dust.</li></ul>

			<p><b>Sector specific –</b></p> <ul style="list-style-type: none"> <li>• Replacing two 50-horsepower steam generators with two 10-horsepower steam generators.</li> <li>• Moved new generators closer to sterilizers, reducing steam line by 600 feet.</li> <li>• Fine-tuned HVAC settings to shut down when buildings are not in use.</li> <li>• Installed on-demand natural gas hot water heater for kitchen use.</li> </ul> <p><b>Transportation –</b></p> <ul style="list-style-type: none"> <li>• Reduced trips to pick up supplies from local vendors.</li> <li>• Scheduled regular tune-ups and oil changes for company vehicles and forklift.</li> <li>• No-idle zones for freight deliveries.</li> </ul>
Lakeside Industries Asphalt Plant	Belleville	Burlington Skagit	<p><b>Energy efficiency –</b></p> <ul style="list-style-type: none"> <li>• Installed variable frequency drive on baghouse fan, resulting in significant reduction in power usage.</li> </ul> <p><b>Emissions reductions –</b></p> <ul style="list-style-type: none"> <li>• Started producing warm-mix asphalt, which requires less fuel to achieve final product temperature.</li> </ul> <p><b>Transportation –</b></p> <ul style="list-style-type: none"> <li>• Storing truck fleet closer to plant to reduce miles driven.</li> </ul>
North Hill Resources		Burlington Skagit	<p><b>Energy efficiency –</b></p> <ul style="list-style-type: none"> <li>• Upgraded to all LED lighting.</li> </ul> <p><b>Transportation –</b></p> <ul style="list-style-type: none"> <li>• Newer trucks equipped with idling auto-shutoff.</li> <li>• Idling policy: trucks may not idle more than 10 minutes.</li> </ul>
Rothenbuhler Engineering	Sedro Woolley	Skagit	<p><b>Energy efficiency –</b></p> <ul style="list-style-type: none"> <li>• Upgraded lighting to energy efficient LED.</li> <li>• Replaced soda machine with an Energy Star-rated soda machine. When not in use, the machine goes into a power-saving mode.</li> </ul> <p><b>Emissions reductions –</b></p> <ul style="list-style-type: none"> <li>• Designs electronic equipment to comply with Restrictions of Hazardous Substances Directive, limiting materials such as lead, cadmium, and mercury in manufacturing processes, parts, materials, and labor. Also purchases RoHS certified products or their equivalent.</li> </ul>

---

Trident Seafoods

Anacortes

Skagit

**Energy efficiency –**

- Developed a certified industrial refrigeration specialist program to train technicians, managers, and other refrigeration professionals to manage energy use.
- Replaced metal halide bulbs with LED space lighting.
- Monitored and replaced defective valves and piping in ammonia system, resulting in reduced energy use.
- Tracks energy use per pound of product, showing an average 9 percent reduction per month in energy use while increasing production 12 percent.
- Implemented 44 of 45 Puget Sound Energy recommendations to optimize industrial systems, reducing the plant's energy use.
- Retrofitting 48 evaporator motors to reduce energy use, and heat, in cold storage.
- Ongoing installation of automatic light switches – 42 areas completed in 2013, 18 completed in 2014.
- Installed automatic control system on three plant hydraulics. The new system controls flow and pressure, and starts and stops hydraulic pumps as plant load changes.
- Installed devices to more precisely control temperature during food processing, increasing usable product while using less energy and creating less waste.

**Emissions reductions –**

- Upgraded fryer exhaust system, reducing natural gas consumption by more than 90 percent and reducing fryer odors; natural gas savings paid for project within one year; reduced carbon footprint.

**Sector specific –**

- Reduced waste, including reuse and recycling of paint and solvents, waste oils, cardboard, and paper. Fish block liner is composted. Excess breaching and batter is recovered and used for animal feed. Wastewater sludge is sent to a Lynden digester that produces methane gas that generates electricity for a local farm.

**Transportation –**

- Refrigeration trucks run only when needed for cooling.
  - No idling onsite.
  - Uses only electric forklifts.
-

CDI Custom Design	Bellingham	Whatcom	<p><b>Energy efficiency –</b></p> <ul style="list-style-type: none"> <li>• In 2014, converted all lighting company-wide to energy efficient florescent lamps and ballasts. Also converted exterior nighttime security lighting to energy efficient LED.</li> <li>• 80 percent of all new sign projects include LED technology, replacing neon tubes and transformers, reducing energy consumption by as much as 80 percent.</li> </ul> <p><b>Emissions reductions –</b></p> <ul style="list-style-type: none"> <li>• In 2014, modified paint booth to accept activated charcoal filter panels, reducing odor emissions significantly.</li> </ul> <p><b>Sector specific –</b></p> <ul style="list-style-type: none"> <li>• In 2013, eliminated all use of a metal-etching chemical that contains heavy metals in manufacturing and painting process.</li> </ul>
Granite Construction Co. Singer Asphalt Plant	Everson	Whatcom	<p><b>Energy efficiency –</b></p> <ul style="list-style-type: none"> <li>• Ongoing work on insulation projects to reduce heat loss from asphalt production and storage.</li> </ul> <p><b>Emissions reductions –</b></p> <ul style="list-style-type: none"> <li>• Tunes asphalt plant burner seasonally to optimize combustion and maintain efficiency.</li> </ul> <p><b>Sector specific –</b></p> <ul style="list-style-type: none"> <li>• Uses a natural gas fired heating system to maintain liquid hot oil temperatures in the storage tanks.</li> </ul> <p><b>Transportation –</b></p> <ul style="list-style-type: none"> <li>• Continues to enforce a five-minute idling policy for equipment and trucks.</li> <li>• Uses low-sulfur diesel in all mobile equipment onsite.</li> <li>• Moving entire fleet of material transport trucks to pit site, eliminating 45 minutes of run time per day, per truck traveling between sites.</li> </ul>