Aurora Energy Solutions, LLC provides a meaningful solution to help improve community’s air quality

**THE PROBLEM:**

- Fairbanks designated "Serious Non-Attainment Area" for PM2.5
- Burning of wet firewood major contributor to PM2.5 levels
- Aurora Energy power plant was facing expensive control technology mandate
• Purchase and install a wood kiln to dry firewood

• Aurora Energy power plant can connect kiln to existing district heat system = zero new emissions

• Utilize expertise of Superior Pellet Fuels to grow firewood business, enhance pellet and compressed log products

THE SOLUTION

Locally-made, locally-harvested high-quality heating options that are efficient, reliable, and environmentally friendly.
Superior Pellet Fuels has been a leader in biomass/renewable energy products for Interior Alaska since 2010

- Acquisition finalized in June 2020
- Wood pellet and compressed log manufacturer, located in North Pole
- Products will be sold under Superior Pellet Fuels brand packaging; new packaging
- Products can be purchased at our North Pole facility, the downtown Fairbanks kiln location, Lowe’s Home Improvement stores, and other smaller retailers
- New packaging for all products will be launched later this year

Proudly manufacturing products!
MADE WITH LOCALLY HARVESTED TIMBER or SAWMILL RESIDUALS
LOW-ASH, LOW-MOISTURE CONTENT
INSECT-FREE
NO ADDITIVES OR BINDING AGENTS
HIGH-QUALITY
ENVIRONMENTALLY-FRIENDLY
YEAR-ROUND SUPPLY
DELIVERY AVAILABLE TO LOCAL AREA

PREMIUM-GRADE WOOD PELLETS
Sold by individual 40-lb. bags or by the full ton (50 bags)

COMPRESSED LOGS
Sold by individual 5-log packages or by the full ton (515 logs)
Fairbanks First-Ever Wood Drying Kiln is Announced
Kiln-Dried Firewood Process

Thermal energy from Aurora Energy co-generation power plant provides energy for kiln operations; no new emissions will be created.

Birch trees are primarily harvested from within 100-miles of the greater Fairbanks area.

The logs are processed and cut to length in 16-inch sections and put into drying baskets.

Series of coils and fans transfer heat through the wood-kiln. 48-cords of firewood can be dried in a 48-hour drying cycle.
Benefits of Kiln-Dried Firewood

- Consistent, low-moisture content wood that can be burned immediately
- Free from bugs, fungus, and mold
- Lower moisture = better fireplace/wood stove efficiencies = less wood burned = savings for consumer + improved air quality
- Burning <20% moisture wood as compared to 40% moisture wood = 25% reduction in PM2.5

2018 Fairbanks Air Quality Stakeholders Group Task Force unanimously supported a wood-kiln that would allow for production of reliable, clean-burning supply of dry firewood.
Kiln-dried firewood, pallets and compressed logs will be available at the Fairbanks & North Pole locations.
Meet Our Leadership Team

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THANKS

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