Sealaska Plaza Building – Juneau, AK

**Background**
The 58,000-square-foot Sealaska Plaza building is the headquarters for the Sealaska Corporation, a Tlingit, Haida and Tsimshian-owned Native Corporation.

**The Viessmann Solution**
A Pyrot wood-fired boiler was commissioned to replace the building’s two outdated oil-fired boilers.

**Installation Details**
The fully-automatic Pyrot KRT-220 wood-fired boiler is fed by a 19-ton, custom-built and painted fuel pellet storage silo. With a rated output of 751 MBH, it handles the building’s space and domestic hot water (DHW) heating loads.

The Pyrot is equipped with the industry-leading control and safety devices to ensure reliable and safe operation. Its advanced rotary combustion process, triple-pass heat exchanger and modulating output control enable the boiler to achieve an efficiency of 85% while maintaining low emission levels. An automatic deashing system keeps maintenance to a minimum, and a web interface allows remote system monitoring.

**The Results**
The Pyrot boiler consumes 260 tons of fuel annually, displacing 31,560 USG of fuel oil each year and representing a carbon savings of 330 tons.

**Project Details**

<table>
<thead>
<tr>
<th>Project Year</th>
<th>2010</th>
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<tbody>
<tr>
<td>Equipment</td>
<td>Pyrot KRT-220</td>
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<tr>
<td>Rated Output</td>
<td>751 MBH / 220 kW</td>
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<td>Mechanical Contractor</td>
<td>Behrends Mechanical Inc., Juneau, AK</td>
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</tbody>
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Wood pellet fuel is delivered to the storage silo

A state-of-the-art Pyrot wood-fired boiler replaced Sealaska’s outdated oil-fired boilers

The Pyrot boiler displaces 31,560 USG of oil fuel each year