



DAGR
Case Study

BL420 LED Bay Lights
FL570 LED Flood Lights

Lakeland Mills

Prince George, BC

>70% reduction in energy consumption
>\$500,000 in 5-year energy savings
1-year project payback

Three-years after being destroyed by a devastating explosion and fire, Sinclar Forest Products has rebuilt Lakeland Mills in Prince George, BC. The new sawmill, which opened in early 2015, is a showcase of modern equipment and technology, safety features and energy efficiency.





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THE CHALLENGE

In April 2012, the original Lakeland sawmill was destroyed by a catastrophic explosion and fire. Sawdust accumulation was found to be a contributing factor. When the decision was made to rebuild the mill, the Sinclair Group committed to designing a facility that would create the safest possible work environment for their employees.

Lighting for the new mill needed to be certified for hazardous, dust-explosive environments. It also needed to be energy efficient and create a bright, safe and functional space for workers. This high-profile project involved multiple stakeholders and tight timelines.

THE SOLUTION

Working closely with the Sinclair Group's Energy Manager and project team, DAGR proposed a lighting solution that would not only improve safety standards at the mill, but would also significantly reduce energy consumption and improve lighting quality. Throughout the process we worked with key stakeholders to ensure all aspects of LED technology were understood the the tight construction and delivery timelines were met.

DAGR Industrial Lighting installed 294 x **BL420 LED bay lights** and 95 x **FL570 LED flood lights** at Lakeland Mills. The fixtures are all Class II – certified for hazardous, dust-explosive environments.

RESULTS

With Lakeland Mills, the Sinclair Group has set a new standard for safety in the Canadian sawmill industry. The facility is well-lit, contributing to a safe and positive work environment. It is estimated that energy consumption has been **reduced by 72%** over conventional lighting, with a projected **energy savings of approximately \$540,000** over five-years. With energy and maintenance savings, the lighting project will pay for itself in one-year.