



CLEANER RESIDUES FOR GREENER FUELS

Pacific BioEnergy Prince George LP is the first company in North America to design and install a system to clean forest residues, making a viable feedstock for their pellet plant located in Prince George, British Columbia.

- Wood pellets are an efficient, cost-effective alternative source of energy that can be used in power and heat applications. They are a renewable, solid fuel consisting of dried, compressed wood fibres.
- This new cleaning system for raw materials removes debris such as dirt and rocks. Integrating it into the existing system will allow the use of a more accessible and diverse fibre supply at more competitive costs.
- Forest biomass and unused wood, including material left in the forest following conventional logging operations, become a new, low cost feedstock for the pellet production process.



UTILIZING CANADA'S FORESTS: RESULTS EXPECTED



NEW AND ACCESSIBLE FIBRE SUPPLY AT MORE COMPETITIVE COSTS



REDUCED MAINTENANCE AND ASSOCIATED DOWNTIME RESULTING IN A PLANT PRODUCTION INCREASE WITH AN ADDITIONAL **35,000 METRIC TONNES** OF OVEN-DRIED WOOD PELLETS ANNUALLY



ENHANCED JOB SECURITY FOR 52 EMPLOYEES AT THE FACILITY AND UP TO 14 NEW JOBS CREATED IN THE PRINCE GEORGE AREA

INNOVATING WITH WOOD

- new system based on an advanced application of material classification and separation technologies that will combine screening and cleaning in a single unit. The result will be a cost-effective solution that makes a viable feedstock out of previously unusable raw materials.
- will allow for the use of more diverse sources of forest biomass. These include sources currently left to decompose in the forest or currently not economically beneficial to collect and process because of the high level of contaminants.
- can process 1,000 tonnes of biomass per day, maximizing the wood pellets available from the Pacific BioEnergy production process

POTENTIAL OPPORTUNITIES

ENVIRONMENTAL: REDUCE THE POTENTIAL OF WILDLAND FIRES BY REMOVING FOREST BIOMASS OTHERWISE LEFT IN THE FOREST TO DECOMPOSE

ENVIRONMENTAL: INCREASED CLEAN ENERGY PRODUCTION THAT DISPLACES FOSSIL FUELS AND REDUCES GHG EMISSIONS

MARKET: INCREASE THE PRODUCTION OF WOOD PELLETS TO SUPPLY THE GROWING MARKET IN EUROPE AND ASIA

ECONOMIC: PROFITABILITY AND SUSTAINABILITY OF THE MILL RESULTING FROM INCREASED PELLET PRODUCTION

COMMUNITY: SUSTAINABILITY OF EMPLOYMENT AT THE MILL AND NEW INDIRECT JOBS



PACIFIC BIOENERGY PRINCE GEORGE LP IS A NORTH AMERICAN LEADER IN THE PRODUCTION OF WOOD PELLET FUEL WITH OPERATIONS IN THE HEART OF BRITISH COLUMBIA'S FOREST REGION.

PROJECT LOCATION:
PRINCE GEORGE, BRITISH COLUMBIA

The project will result in an expansion of the value chain in the forest industry – converting what is a cost today into an asset and resulting in a valuable product that will reduce greenhouse gas emissions by burning a renewable resource in lieu of fossil fuels.

— Ewan D. Moir, President & COO
Pacific BioEnergy Corporation

Investments in Forest Industry Transformation Program: In 2010, Natural Resources Canada's Canadian Forest Service created the Investments in Forest Industry Transformation (IFIT) Program to support Canadian companies to develop and grow markets for new and innovative high-value products using Canada's forest resources. *For more information: www.nrcan.gc.ca/forests/federal-programs/13139*

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