



## WOODEN CAR PARTS

**Tekle Technical Services** (TTS) implemented a new manufacturing process to produce the world's first engineered wood fibre mat for use in automotive manufacturing and green building applications.

- process enables wood and agricultural fibre residues to be made into ultra light-weight interior trim car parts and environmentally-friendly building insulation materials
- there is a strong and growing demand in North America for automotive composite mats and building insulation



## UTILIZING CANADA'S FORESTS: RESULTS EXPECTED



ASPEN, SPRUCE, PINE AND FIR FIBRE RESIDUES



ENGINEERED  
FIBRE MATS



**11,250 TONNES**  
OF NATURAL FIBRE MATERIALS PER YEAR



**23**  
**NEW**  
**JOBS**

### INNOVATING WITH WOOD

- TTS's unique technology utilizes wood and agricultural fibre to manufacture engineered mats
- large portfolio of more than 500 natural fibre blending formulas

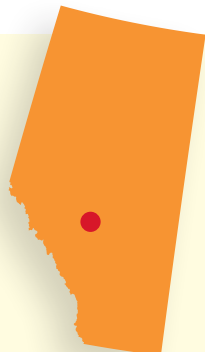
### POTENTIAL OPPORTUNITIES

**ECONOMIC:** SIGNIFICANT DIRECT AND INDIRECT ECONOMIC BENEFITS TO COMMUNITY

**ENVIRONMENT:** REPLACES FIBREGLASS AND PETROCHEMICAL-DERIVED PLASTICS WITH RENEWABLES

**MARKET:** STRONG AND GROWING DEMAND IN NORTH AMERICA FOR NATURAL FIBRE AUTOMOTIVE COMPOSITE MATS AND BUILDING INSULATION

**ENVIRONMENT:** 50,000 TONNES OF GHG EMISSIONS OFFSETS



**TEKLE TECHNICAL SERVICES IS A FOREST PRODUCTS DEVELOPMENT AND TESTING COMPANY THAT DEVELOPS NOVEL GREEN BUILDING PRODUCTS**

**PROJECT LOCATION:**  
DRAYTON VALLEY, ALBERTA

*Transforming current waste fibre into advanced and environmentally friendly biomaterials creates new revenue streams for the Canadian forest industry. It is a sound approach towards enhanced environmental and social stewardship coupled with economic advantages.*

— Tamrat Tekle, President  
Tekle Technical Services

**Investments in Forest Transformation Program:** In 2010, Natural Resources Canada's Canadian Forest Service created the Investments in Forest Industry Transformation Program (IFIT) 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](http://www.nrcan.gc.ca/forests/federal-programs/13139)

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