



## Biomass

### A 10,000-acre Kiri Biomass Forest

***...can produce 340,000 tons of sustainable biomass every year  
...to generate up to 40 megawatts of clean and sustainable power***

The Kiri Tree is an ideal species to produce biomass for renewable energy generation. As one of the fastest growing trees on earth, the Kiri Tree can be harvested annually under the right conditions for biomass before naturally growing, thereby creating a truly sustainable biomass supply.

Biomass refers to biological material that can be used to produce electricity or fuel in a sustainable and environmentally friendly manner, usually as input to a gasifier.

A specific Kiri variant has been developed to produce a tree with multiple sprouts and stems that grow so fast they bend outward to compete for sun light. This tree produces the most amount of biomass from a Kiri in the shortest time, allowing for greater energy production from the one harvest.

Once harvested, the Kiri can be either sold in chipped form or processed into small pellet sized pieces (biomass) for efficient transportation to the power plant to produce fuel or electricity. A Kiri tree biomass plantation of 10,000 acres can produce 350,000 tons of wood pellets annually. Most pellet operations would require 200,000 acres over an 8-year period to accomplish the same production and would devastate a traditional forest.

***A Kiri plantation will save 20 acres of natural forest for each acre planted.*** Kiri grows five times faster than normal hardwood. In the right conditions it regenerates for 7 to 10 harvests without needing to be replanted and is annually harvestable, affording a clear production advantage. The sustainability of this model provides a positive environmental and economic impact for the local communities and ECO2 International.

Carbon sequestration in both Kiri Biomass and lumber species, where single stem trees are grown, generates carbon credits for ECO2 International and significantly reduces the amount of greenhouse gases in our atmosphere.

The current commercial per ton price of wood pellets in northern Europe is \$295.00 as of 6-1-2010. Price trends are rising. Using wood pellets to make electricity is among the lowest costs of all energy production, just above coal.

