



Corporate Fact Sheet

TreeFree Biomass Solutions Inc. (TBS) provides cost effective solutions for the biomass market place. TFBS spent 12 years partnering with research organizations, scientists and Universities establishing a closed-loop biomass crop that is superior to existing biomass options. What sets TFBS apart from other biomass companies is that TFBS has targeted Arundo Donax as a centrifuge for its patents due to its unique properties and superior yields as a feedstock crop supplying a multitude of end users in markets spanning the globe.



We deliver feedstock to a diverse group of major industries that use Nile Fiber™ as a component in the production of products like pulp and paper, bioenergy, building and composite materials, sugars, forage, cosmetics, bio-chemicals and biofuels.



Nile Fiber™ under optimal conditions.

BUILDING SUSTAINABLE AGRICULTURAL SYSTEMS

Using our patented technology, per acre biomass production yields can be increased 15 times that of equivalent acreages of tree crops. We can design a sustainable agriculture system specifically for a multitude of industrial uses. This represents a clear winner in the industry and a clear choice over the use of trees. Nile Fiber™ rarely needs replanting and will continue to grow indefinitely, allowing the harvesting process to be repeated every 9-12 months. This results in substantially reduced labor costs to the farmer and less acres needed under cultivation. Nile Fiber™ can grow up to 30 feet in height in less than one year under optimal conditions, or almost 5" a day. Nile Fiber™ is the clear choice as a green renewable crop and a hardwood replacement in the industry.

TreeFree Biomass Solutions Inc. spent the last 12 years researching Arundo Donax as a sustainable biomass feedstock. In addition to confirming Nile Fiber™ as a replacement for wood fibers in producing pulp and paper, TreeFree discovered additional applications in other major industry sectors. TreeFree owns or controls an intellectual property portfolio of Nile Fiber™ products and processes. After over a decade of research and development, Treefree is now commercializing its product and operational methods to guarantee success moving forward.

Our products include proprietary plant cultivars and on site infrastructure development, as well as supply, delivery and logistical incorporation of our feedstocks into the end users' process. TreeFree produces Nile Fiber™ cultivars, plants that have specific growth characteristics and specialized end uses. TreeFree also grows and harvests our own crops. We have the technology to plant, grow, harvest and deliver this feedstock in a most competitive manner to end users anywhere in the world.

TreeFree produces Nile Fiber™ cultivars, plants and grows Nile Fiber™ grass, we harvest Nile Fiber™ crops, prepare Nile Fiber™ raw biomass feedstock in the form the end-user requires and deliver it to the end-user. TreeFree is forging relationships with governments, communities, Universities, and public and private companies to launch an aggressive effort to confirm and develop Nile Fiber's™ potential as a critical part of the solution to energy dependency, replacing fossil fuels, protecting, enhancing and sustaining the environment and provide economic development opportunities for rural communities.



2000-2011 MILESTONES

- \$100,000 DOE grant with Auburn University
- Established test growing plots at Auburn University
- 1st Commercial pulp trial at Samoa pulp mill
- 2nd Successful commercial trial at Samoa pulp mill
- Established test growing plot at WSU
- Patent issued on pulp, paper, composites
- Development of a nodal propagation system
- Established propagation research center at Machias, WA
- Development of a low cost micro ramet propagation system
- \$400,000 Grant funded by UW, DOE, EPA
- Established propagation research center – Kona, HI
- Selection of elite, productive cultivars and ecotypes of Nile Fiber™
- Developed system for planting large acreages
- Proof of concept: using patented propagation system
- Patent filings to expand pulp, paper, composites
- Patent filings based on feedstock propagation
- Patent filing based on chemical extraction
- Received exclusive license for UW yeast and xylitol
- Successfully removed multiple acres of Nile Fiber from a farm in Touche, WA proving ease of crop removal
- Development: large propagation facility Hamakua Coast, Hawaii
- Successfully planted 17 acres in South Carolina
- Capacity to ship planting materials to cultivate thousands of acres a month
- Our propriety propagation method is capable of producing exponential platelets is 6 week cycles

**WE DELIVER
FEEDSTOCK.**

NILE FIBER™
ONE PRODUCT, MANY SOLUTIONS.

www.nilefiber.com

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SUSTAINABLE FEEDSTOCK SYSTEMS

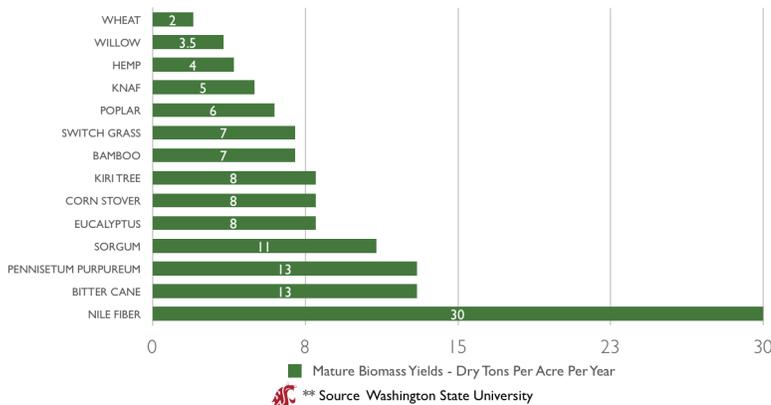


About Nile Fiber™ - Nile Fiber™ is truly a remarkable plant. It is a perennial grass that grows so vigorously it can be harvested annually. When grown as a crop, it drastically reduces soil erosion compared to annual crops because annual plowing and seeding are not necessary. Nile Fiber™ is a fast growing grass that proliferates during the warm seasons of the year. During colder months it becomes dormant, and in this state it is able to survive temperatures below freezing. It also returns essential nutrients to the soil.

Environmental Benefits - Nile Fiber™ offers many environmental benefits. First and foremost, its use for pulp, paper and building materials will reduce the threat to ancient indigenous forests, thus preserving some of the most valuable and unique treasures of the world. Secondly, it appears that this plant is resistant to pests and diseases and requires little or no fertilizer. Therefore, use of pesticides, herbicides and large amounts of chemical fertilizer is considerably reduced, along with the associated environmental hazards of over fertilized soils and chemical runoff.

Competitive Outlook Biomass Yields

Nile Fiber is the highest yielding, most cost effective, non-food crop biomass available.



Competitive Outlook Dry Tonnage
Competitive Outlook Dry Tonnage Yields of Nile Fiber Compared to other Biomass Crops.

The Advantages of Nile Fiber™ - Finally, due to its very rapid growth (rates of 3 - 6 inches per day are common in the growing season), Nile Fiber™ is one of the most efficient plants available for removing carbon dioxide from the atmosphere and "fixing" it into plant tissue and soil above and below the ground. This process is known as carbon sequestration and it is fundamental to the mitigation of global climate change currently induced by excessive combustion of fossil fuels.

TreeFree is forging relationships with governments, communities, universities, public and private companies to launch an aggressive effort to confirm and further develop Nile Fiber's™ potential as a critical part of the solution to energy dependency, replacing fossil fuels, protecting, enhancing and sustaining the environment and providing economic development opportunities for rural communities.

Our production system allows TreeFree to meet diverse feedstock specifications that vary by industry, such as liquid biofuels, materials used for thermal conversion into electrical energy, low impact, sustainable pulping material for use in paper manufacturing, building materials and many other uses. TreeFree's ongoing product development program continues to explore future uses that maintain emerging high demand for this crop. Such futures uses include bio-plastics, chemical extracts, manufacturing of fertilizers and pharmaceuticals.

NILE FIBER™ FACTS

- **Inexpensive propagation**, as much a 60% less than other techniques with great survivability and more plants per acre.
- Uses standard planting and harvesting techniques.
- Yields per acre exceed other biomass plants by as much as **300%**.
- Adaptable to many industries: energy, fuels, glycol's, pulp and paper, composite boards, phytoremediation, carbon sequestration.
- Ability to propagate thousands of acres at a time.
- **Sustainable** - Low impact, Self-Sustaining Yields.
- Grows on Marginal Land.
- **0% Displacement** of food crops on agricultural acreage.
- **Harvest on Demand** - Only Harvest the acreage you need when you need it.
- High Yield with ambient rain fall.
- Minimizes crop soil erosion.
- **High Value Forage** - Forage for Cattle. (9% -14% crude Digestible Protein)
- Low Cost of Planting & Harvesting.
- **Localized Economic Investment** - Keeping your Community dollars in your Community.
- **Localized Job Creation** - Creating family wage jobs for the Community.
- **Carbon Negative** - Removes carbon from the atmosphere.
- Minimal fertilizer or pesticide required.