

A low-angle photograph of a forest, looking up at the canopy of tall trees with green leaves against a bright sky.

The Environmental Benefits of **Mirá Biotech's** Proprietary Biofuel Pellets

Mirá Biotech's biofuel pellets offer a sustainable alternative to traditional energy sources, presenting a multitude of environmental benefits. By replacing coal with our proprietary biofuel pellets, each ton mitigates approximately **2.9 tons of CO2 emissions**. This is a significant reduction that can contribute greatly to combating climate change.

Addressing the Deforestation Challenge

One of the major environmental concerns associated with traditional wood pellets is deforestation. The sourcing of wood pellets often leads to the depletion of forests, particularly impacting species such as the white pine. These trees are heavily logged and take about **25 years to regenerate**, emphasizing the long-term negative impact on forest ecosystems and CO2 levels.

Each year, energy-related deforestation results in the loss of **5 to 7 million acres of forest**, releasing between **750 million and 1.05 billion tons of CO2**. On average, this equates to 150 tons of CO2 per acre. This data highlights the urgent need for sustainable alternatives.

Mitigating CO2 Emissions with Biofuel Pellets

If a portion of the millions of acres currently deforested for energy use were replaced with Mirá Biotech's biofuel pellets, the impact on CO2 emissions would be substantial. We could mitigate hundreds of thousands of tons of CO2 emissions, contributing positively to the environment.

Sustainable Sourcing from Byproducts

Mirá Biotech's biofuel pellets are sourced from byproducts, which eliminates the need for deforestation entirely. This not only preserves vital forests but also reduces landfill waste. By utilizing byproducts, we transform potential waste into a valuable energy resource, underscoring our commitment to sustainability and environmental stewardship.



In summary, the adoption of **Mirá Biotech's** biofuel pellets can have far-reaching positive effects on both CO2 emission reduction and forest conservation, paving the way for a more sustainable future.



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