



SOUTHERN GROUP OF STATE FORESTERS  
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European Commission  
Brussels, BELGIUM  
ENER-REDII-REVIEW@ec.europa.eu

Re: European Commission Energy Taxation Directive Consultation

To Whom It May Concern,

The Southern Group of State Foresters (SGSF) is pleased to offer these comments on the current Consultation on the Review of Directive 2018/2001/EU on the promotion of the use of energy from renewable sources. SGSF represents the interests of the state government forestry agencies from a 13-state area of the southern United States. A majority (roughly 60%)<sup>1</sup> of the wood pellets currently supplied to the EU to help meet its renewable energy and climate goals come from our region. Our members, the State Foresters, are responsible for managing state forests and supporting landowners with privately-owned forests as they simultaneously supply wood products and provide ecosystem services that benefit our country and the world. The SGSF mission is to provide leadership in sustaining the economic, environmental, and social benefits of the South's forests.

As our area of expertise is forestry norms in the United States, we have kept our comments narrowly focused on the topic of bioenergy sustainability as it relates to this Consultation. Thus, we offer comment only on elements 3.7.1 (*Do you think the sustainability criteria for the production of bioenergy from forest biomass in RED II should be modified?*) and 3.7.3 (*Do you think that there should be limits on the type of feedstock to be used for bioenergy production under REDII?*) **In short, we do not think the biomass sustainability criteria need to be modified, nor should limits be placed on the type of feedstock used for bioenergy production.**

We applaud the EU for its forward-thinking and ambitious drive to reduce greenhouse gas emissions by at least 55% by 2030. Research shows that these levels of emission reduction are only possible with the use of sustainably sourced woody biomass, including from the southern United States. While the EU has upwardly revised its emissions reduction target, it does not necessarily follow that the RED II biomass sustainability criteria need to be revised. Procedurally, the current RED II policy has yet to even be implemented so we find it curious that

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<sup>1</sup> <http://biomassmagazine.com/articles/16371/report-eu-demand-for-wood-pellets-continues-to-grow>

discussion exists about needed revisions. The process for developing the RED II biomass sustainability criteria was robust and science-based. We are not aware of any new science or evidence to suggest that the well-founded policy developed in RED II will be insufficient in ensuring forest sustainability in our part of the world.

SGSF appreciated the opportunity to serve as a technical expert and resource throughout the RED II development process for the European Union. Our staff visited numerous Commission and Parliamentary offices in Brussels, we hosted a tour in the United States for interested members of Parliament to meet state forestry personnel and see our forests for themselves, and we participated in numerous public consultation processes. We believe that the final RED II biomass sustainability criteria listened to all that we had to say, and represents an efficient and science-based way to ensure that forest sustainability is monitored and perpetuated while sourcing woody biomass.

In our region, the growth of the wood pellet industry to supply the decarbonization efforts of the European Union has had the co-benefit of improving the health of the forests. Markets for forest products in general have been shown to have positive impacts on forest cover and forest management in the US South. The largest positive impact comes from the market incentive provided to private landowners, who own 86% of the forests in the South, to keep their forests as forests and not convert them to other potentially more profitable land uses such as agriculture and development. The positive impact of strong forest products markets on forest retention has been shown historically, as the acreage of forests in the US South has grown in the past 50 years despite a significant increase in wood harvested for a variety of products. This trend has also been modelled into the future with studies showing beneficial forest cover and carbon impacts from wood pellet market growth. Simply put, markets for their wood encourage landowners to plant more trees.

However, these markets need strong policy signals to develop and remain. Revising the RED II biomass sustainability policy before it even begins its implementation would send exactly the opposite signal. The mills that produce wood pellets are capital investments that can take a decade or more to be paid off. Frequently changing the policy that impacts their profitability deters investment in these mills, as well as in the supply chain that supports them and in planting the fiber that goes into them. Frequent market policy shifts have negative impacts in the health of our region's private forests and the rural economies that rely on them.

Currently, USDA Forest Service Forest Inventory and Analysis data show that significantly more trees are growing in southern forests than are being harvested.<sup>2</sup> Across the area where pellet mills have opened, forests are growing 60 percent more volume than is being removed through all causes including harvest, insects & disease, and wildfire. The same trends remain when examined at smaller scales, with individual states showing between 40 and 100 percent more growth than removal. Simply put, there is an abundance of trees on the landscape. Some of this abundance can be attributed to the loss of paper production capacity in our region. There has been a decline in the pulp and paper market as a result of the 2008 recession and waning global

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<sup>2</sup>[https://www.forest2market.com/hubfs/2016\\_Website/Documents/20151119\\_Forest2Market\\_USSouthWoodSupplyTrends.pdf](https://www.forest2market.com/hubfs/2016_Website/Documents/20151119_Forest2Market_USSouthWoodSupplyTrends.pdf)

demand for printed materials. The wood pellet mills are helping to fill that market void, even siting in some of the exact same woodbaskets that have lost paper mills.

While the wood pellet manufacturers in our region use forest residues (tree branches, tops, etc) as well as sawdust and other mill residues, a portion of their feedstock is comprised of “whole trees”. As markets for small-diameter thinnings and otherwise unmerchantable trees (small, low value due to form, diseased, of an unmarketable species, etc) have decreased over the past decade due to the paper mill closures, private landowners have been put in a bind with what to do with their unmarketable trees when they harvest. Our forests typically include both high value and low value trees growing together. Sawmills will always take the high-quality trees and pay top dollar for them, but if a landowner has no place to sell their low value trees, then they are left with either a partial forest that is not able to regenerate successfully or they are forced to burn the remaining trees and biomass on their land so they can replant. In taking these trees, the wood pellet industry helps private landowners find markets for all of their trees, big and small, and allows them to reforest their land in a way that is ecologically and economically sound.

For this reason, we caution the EU against any policy that limits the feedstocks for wood pellet production, including “whole trees”. The reality on the ground here in our forests is that the pellet industry is taking the abundant wood fiber that has few if any other markets. From a price standpoint, if the fiber has a higher value usage such as lumber, veneer, or paneling it will end up as a feedstock at those mills. However, if there is no other market that will take the fiber, it is to the benefit of the forest, both in the short-term and long-term, that it goes into wood pellet production. It is carbon-beneficial to use any type of wood fiber in displacing fossil fuels through pellet production if the alternative fate is burning it on site in the forest or in a worst-case scenario incentivizing a landowner to convert their land to non-forest uses. In any EU policy discussions, we would encourage the recognition of the complex interactions between economics and the environment in our region, and that the policy levers that the EU might be familiar with for sustainability of public forests in other parts of the world are very different from, and at times counter-productive to, those that are most successful in our region – a region that is dominated by private forest owners that have many options for the use of their land.

I have attached our recent Policy Brief on this topic, which includes more information on southern forest sustainability, particularly related to the nascent wood pellet industry. Thank you for your consideration of these comments and our expertise in southern US forestry, especially our recommendation to not revisit the RED II biomass sustainability criteria at this time. If you should require any additional information on forestry norms in the US, please do not hesitate to reach out to us at any time.

Sincerely,

A handwritten signature in blue ink that reads "Scott L. Phillips". The signature is written in a cursive, flowing style.

Scott Phillips  
State Forester, South Carolina  
Chair, Southern Group of State Foresters



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## **Southern Group of State Foresters Policy Brief:** **Forest Sustainability and Wood Pellets in the Southeastern United States**

The Southern Group of State Foresters (SGSF) represents the interests of the state foresters from across a 13-State area of the southern United States. In each of their states, the state forester is charged by state government with monitoring and ensuring the sustainability and vitality of the state-owned and private forest resources. As an association, the SGSF mission is to provide leadership in sustaining the economic, environmental, and social benefits of the South's forests, and thus we are very interested in the potential impacts of a growing wood pellet industry on the forests and forest owners within this region, as well as any discussions surrounding southern forest sustainability.

The forest landscape in the southern United States is markedly different from that found in the European Union. The crux of this difference lies in the fact that the majority (86%) of forest land in the South is under private ownership, with 66% of that owned by non-industrial private forest (NIPF) owners<sup>1</sup>. This means that any conversation on forest policy and environmental or sustainability outcomes must inherently center on discussion of how those NIPF owners currently manage their land, and how incentives and markets might change that management into the future. Research indicates that the vast majority (over 70%) of NIPF owners own land for reasons of nature protection and aesthetics<sup>2</sup>. This indicates a strong desire to be good stewards of the land and for their forests to be well-managed, making it in their best interest to make informed decisions about their land before any active management.

The United States, and in particular the South, has a strong system of monitoring, reporting and regulating the sustainability of its forest landscapes. The Clean Water Act, Clean Air Act, Endangered Species Act, and many other federal and state regulations are in place to guide sustainable outcomes on private forest landscapes. Additionally, through Federal, State and Tribal investments in forest inventory monitoring, harvest tracking, public lands conservation, and State-driven efforts at Best Management Practices and State Forest Action Plans, monitoring is ongoing regarding the impacts of all harvesting activities, including bioenergy harvesting, as well as processes for addressing any sustainability challenges if they emerge. Monitoring data and reports from the national Forest Inventory and Analysis program and other efforts are subject to ongoing quality assessment and are publicly available, allowing robust real-time public dialogue and policy responses to advance the sustainability of forest management.

### **Forestry Best Management Practices (BMPs)**

BMPs exist in every southern state to minimize impacts to water quality and other resources from silvicultural activities. Categories of activities for which BMPs exist in most states include harvesting, site preparation, forest roads, stream crossings, and streamside management zones. State forestry agencies developed BMPs starting in the 1970s, and they have been actively evaluated, tested, revised, and adapted over time. The Clean Water Act recognizes BMPs as the most viable

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<sup>1</sup> Wear, D.N. and Greis, J.G. (2013) Southern Forest Futures Technical Report, [http://www.srs.fs.fed.us/pubs/gtr/gtr\\_srs178.pdf](http://www.srs.fs.fed.us/pubs/gtr/gtr_srs178.pdf)

<sup>2</sup> Butler, Brett J. 2008. Family Forest Owners of the United States, 2006. Gen. Tech. Rep. NRS-27. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 72 p.

pathway to address nonpoint source pollution that originates from various land management activities. Each state implements BMP programs according to its unique landowner characteristics, ecological conditions, forest industries, and socio-political norms, and conducts BMP effectiveness monitoring to track environmental outcomes. The approaches range from regulatory (forest practices law or silvicultural BMP legislation) to non-regulatory (voluntary adoption and promotion of the use of BMPs through training and education); however, research has shown that all program structures are equally successful at achieving environmental outcomes.<sup>3</sup>

SGSF and its members track BMP implementation rates on a state-by-state basis, as well as rolled up at the regional level. The most recent synthesis report in 2019 indicates that BMP implementation across the South is very high at 93.6%, and that implementation has been steadily increasing over the past two decades<sup>4</sup>. In particular, logger training and certification programs have proven to be a key element in strengthening the acceptance, adoption, and use of forestry BMPs. The ongoing process of BMP monitoring is something that SGSF and its partners are committed to in showing implementation of sustainable harvest practices, and will continue to use to track environmental outcomes into the future.

### **Forest Inventory and Analysis (FIA)**

The FIA program, conducted regionally by the US Forest Service Southern Research Station in partnership with the states, provides the backbone of data used to monitor trends in forests and forest products across the South. Through a network of on-the-ground plot measurements (1 plot every 6,000 acres) and rigorous data processing and analysis, FIA is able to answer the tough questions that scientists and policymakers alike ask about the South's forest resource – Is it growing or shrinking in size? Are there changes in species composition or geographic distribution? Are there issues with regeneration? FIA is the go-to source for information on these questions. Annual state-level reports and the ability for any member of the public to access the most recent field data on-line create a robust, transparent, and timely structure for monitoring changes in southern forests.

Data analysis is consistently being done by USFS analysts as well as state and private entities to monitor the sustainability of forest resources, forest use, and forest health. Dozens of southern region FIA publications can be found at the SRS website (<http://srsfia2.fs.fed.us/>) which when taken together show current regional sustainability. FIA data shows that in the 9-state area where pellet mills have appeared on the landscape, forests are currently growing 60 percent more volume than is being removed through all causes including harvest, insects & disease, and wildfire<sup>5</sup>. As an industry grows, such as is predicted for the wood pellet industry, FIA analysis is able to track changes on the landscape and highlight if there are specific regions of concern for the forest resource. FIA data is also used by industries and states in siting a facility to ensure that there is the forest supply base to economically and ecologically support it in advance of beginning operations. This capability of FIA program data to paint a clear picture of the present status of forests, as well as to look forward and backward with respect to forest trends, makes the potential development of new sustainability tracking systems redundant.

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<sup>3</sup> National Association of State Foresters. 2015. Protecting Water Quality through State Forestry Best Management Practices. [http://www.stateforesters.org/sites/default/files/issues-and-policies-document-attachments/Protecting\\_Water\\_Quality\\_through\\_State\\_Forestry\\_BMPs\\_FINAL.pdf](http://www.stateforesters.org/sites/default/files/issues-and-policies-document-attachments/Protecting_Water_Quality_through_State_Forestry_BMPs_FINAL.pdf)

<sup>4</sup> Southern Group of State Foresters (SGSF) – Water Resources Committee. 2018. Implementation of Forestry Best Management Practices: 2018 Southern Region Report. <http://www.southernforests.org/resources/publications/SGSF%20BMP%20Report%202012.pdf>

<sup>5</sup> Forest Inventory and Analysis Database (FIADB) version 5.1, <http://apps.fs.fed.us/fiadb-downloads/datamart.html>, accessed 09/29/2015.

### **The Southern Forest Futures Project**

The Southern Forest Futures Report, as well as associated subregional outlooks, examines potential futures of southern forests in response to a variety of factors, both natural and anthropogenic. This report represents the most comprehensive analysis of how southern forests could change on the macro-level. Using computer modeling and cutting-edge scientific analysis, the report presents a range of plausible futures or scenarios for the South's forests based on a variety of influences such as urbanization, bioenergy, climate change, land ownership changes, and invasive species. It does not attempt to predict the singular path forward, but instead delivers a range of possible outcomes to inform policy and land management decisions.

Regarding forest biomass-based energy, the report<sup>6</sup> finds that “*While woody biomass harvest is expected to increase with higher prices, forest inventories would not necessarily decline because of increased plantations of fast growing species, afforestation of agricultural or pasturelands, and intensive management of forest lands*” (Technical Report, pg. 213). While the report recognizes the potential for high demand for woody biomass energy to affect harvest levels and create impacts to ecosystem services such as water and wildlife, research findings indicate that these effects can be mitigated at the local level through management considerations and use of BMPs (Technical Report, pg. 250).

In addition to documenting the current status of forests in the South, the resources highlighted above also emphasize future threats. It is important to remember that the greatest threat to southern forests is conversion to other uses, most notably development and agriculture. The current economic reality is that the majority of private forest owners have to constantly reassess the best value of their land. Forestry is competing with agriculture, development and other uses for that land. Good forest policy must incentivize these private forest owners to keep their forests as forests, and support markets that return to them an investment for their land. Recent modeling has shown that sustainably managed pellet markets can do just that, with a resultant increase in forested acres across the South<sup>7</sup>. Policy that instead creates financial and procedural hurdles for these owners to access markets and actively manage their lands can be counterproductive to the end goal of forest health and forest retention across the South.

### **Summary**

Taken collectively, the information presented here conveys two important points. First, there is no data that suggests southern forests are in decline or are being harvested unsustainably at the regional level. On the contrary, FIA data shows that in the 9-state area where pellet mills have appeared on the landscape, forests are currently growing 60 percent more volume than is being removed through all causes including harvest, insects & disease, and wildfire. This reality negates the need for an aggressive policy response to solve a problem that doesn't currently exist. Second, while some modeling suggests that a growing biomass industry could indeed stress the southern forest resource in the future, there is in place a robust monitoring system, including silvicultural BMPs, FIA data, and multiple forest certification methods (Sustainable Forestry Initiative, Forest Stewardship Council, and American Tree Farm System), that work in concert to assess those effects and inform policy modification as needed. In short, we don't believe in enacting preventive policy at the expense of non-industrial private forest owners. Encouraging those forest owners to keep their land in forests, including through supporting strong wood products markets that are crucial in helping keep our forests on a sustainable trajectory, is the chief concern in the South today.

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<sup>6</sup> Wear, David N.; Greis, John G., eds. 2013. The Southern Forest Futures Project: technical report. Gen. Tech. Rep. SRS-178. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 542 p.

<sup>7</sup> Galik, C. S. and Abt, R. C. (2015), Sustainability guidelines and forest market response: an assessment of European Union pellet demand in the southeastern United States. GCB Bioenergy. doi: 10.1111/gcbb.12273