How we can utilize lignin

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Abstract:
Now, many scientists attention the lignin in Japan because 66% of Japan’s land is forests. Lignin is a main component in trees. In other words Japan have many lignin that have great potential but it’s high molecular so hard to we utilize the lignin. We pay attention lignin too because until now, we did various SDGs activity’s especially “how is the efficiency of woody biomass fuel” and “enlightenment of SDGs”. Also we did experiment about “which tree is rich on lignin”. We did quantitative experiment of lignin. As a consideration wood that contains a lot of lignin, it is easy to burn and it’s can burn long time. We can understand why many scientists attention the lignin in Japan and we want to research about lignin more. Through the these activities we felt about limits of what students can do but if we can experiment with co-operator on biomass power generation from Black liquor, we can clear about new lignin’s utilization method. We think if we can do this topic will become clearly, utilization of black liquor become easier also in particular that can contribute to the three goals of the SDGs. The three goals are 7. Affordable and clean energy, 12. Responsible consumption and production and 17, partnership for the goals.

Graphical Abstract: