LANDSCAPE AND ECONOMICAL ASSESSMENT OF BIOMASS CONVERSION TO FUEL AND CHEMICALS

A multinational renewable energy company

The client was interested in learning more about environmentally friendly technologies for converting biomass into liquid fuels and chemicals. The client asked PreScouter to study efficiencies, costs and maturity as well as potential vendors for such technologies.

Challenge:

In this research support service (RSS) project, the goal was to assess technology providers of biomass conversion into fuels or chemicals and provide economical assessment studies. The client needed straightforward recommendations regarding what technology to implement, who to partner with, and what the profits might be.

Approach:

Over the course of 7 rounds of research (14 weeks), PreScouter:

1. Scouted for technology providers, developed metrics and prioritized technologies based on set metrics.
2. Engaged with 4 subject matter experts to share their insights about the technologies, fill in information gaps, and give recommendations on the best companies to partner with.
3. Conducted direct outreach to a selected number of companies to get non-publicly available information (costs, yields, certifications, etc.)

Outcome:

PreScouter identified **55 technology providers and shortlisted 17** to conduct direct outreach. Selection was based on maturity, scale and other performance indicators. This deep analysis was followed by economical assessments for all of the methods. As a result, PreScouter was able to identify the best technology pathway (most profitable, mature and proven).

Impact of PreScouter's work: With PreScouter's recommendations, the client was directly put in contact with the technology providers to start engaging in developing and commercializing the selected process.