

Lignin instead of plastic

Lignin is an underutilized material with great potential as a fossil-free solution, that is now on the rise. It can be described as nature's own glue that binds fibers and provides strength. Lignin can replace fossil oil and can be used, for example, to replace plastic and as a binder in asphalt. Its properties also allow it to be used as a flame retardant, barriers, and spun carbon fiber.

To develop and test ideas and innovations involving lignin, [LignoCity](#) has been initiated. Here, tests involving new material, product, service, or processes can be done. LignoCity serves as a testing ground for everyone from researchers to students and for big companies to start-ups.

“Primarily, we aim to attract idea carriers whom we can assist in developing a product or process for the market,” says Robert Gustavsson, project manager at RISE and LignoCity.

By utilising LignoCity, one creates favorable conditions for a safer development of lignin products. Because in a development environment, the new can be tested in smaller steps, which can then be scaled up in real but controllable forms before a commercial launch.

LignoCity is located near to the paper and pulp mill Nordic Paper, situated south of Kristinehamn, right in the heart of the forestry industry in Sweden. This area boasts abundant expertise, raw materials, and networks. In order to make the offering accessible to as many people as possible, LignoCity has also developed a digital tour. Now, it no longer matters where in the world one is located – all can visit the testing and development facility. Through LignoCity, there is a uniquely world-class opportunity for the development of environmentally friendly lignin products, thus finding fossil-free solutions.

