**Case Study:**

**Skanska Achieves Carbon Neutral Asphalt Mix at The Gate of the Plant with Biobased Material**

**Striving for Sustainability**

Skanska, a world-leading development and construction company based in Sweden, set a target that all of their projects will be climate neutral by 2045. To achieve that, they have to reduce emissions by 50 percent by 2030. One of those projects is the new asphalt road in the region of Dalarna, Sweden, which the company built using tall oil pitch, a biobased material developed by Kraton.

**Replacing Hydrocarbon with Renewable Source**

To meet their sustainability goals while maintaining performance, Kraton’s pine-based tall oil pitch was used as a bitumen bio-extender. This is a breakthrough for the company since the hydrocarbon-based bitumen could be partially replaced by a renewable source. Skanska receives carbon credit since Kraton’s material comes from trees, which sequesters carbon dioxide (CO₂) during its lifetime. As asphalt materials are 100 percent reusable, the sequestered biogenic carbon will remain embedded in the road over its entire life cycle. As a result, the smaller amount of CO₂ emissions that remain from the production stage can be balanced so that climate neutrality is achieved.

**Attaining Excellent Quality and Performance**

In early 2020, Skanska conducted several testing of the asphalt with Kraton biomaterial. Results showed that the road maintained high quality while enabling them to come closer to their sustainability goal. Due to the excellent performance, Skanska plans to launch the new biobased asphalt on a larger scale in other regions later this year.