

**C5**

**From field to filaments: weaving willow for circular building**

In many North-West European rural areas, agricultural production value remains low, while environmental pressure rises. In cities, construction accounts for roughly 5 to 12% of total greenhouse gas emissions. But what if the by-products of rural areas could be used in urban construction?

C5 turns carbon-rich agricultural residues such as willow into circular, bio-based filaments for construction, thus connecting rural feedstock production with circular carbon applications. The result is a new set of circular value chains that help cut emissions, boost rural income and reduce environmental impacts.

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