

Lifecycle CO₂ evaluation of CNF products

~ Towards adoption of CNF as a new environmentally responsible material ~

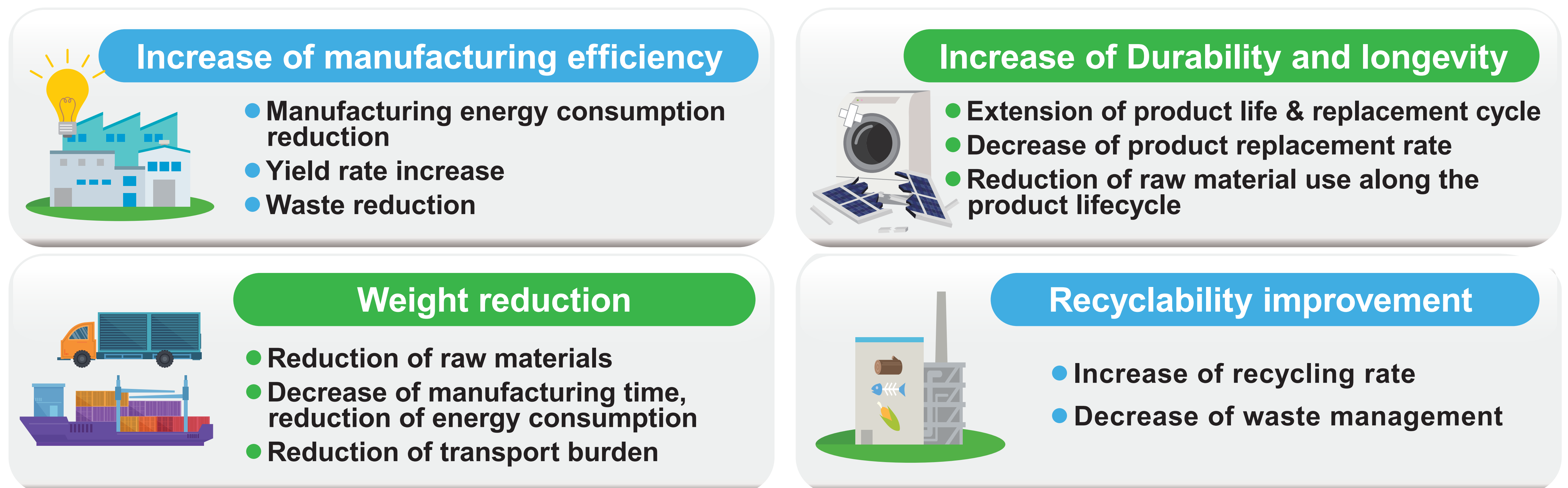


CNF is a material with light weight, high strength and elasticity, that is expected to make a substantial contribution to CO₂ emission reduction. However, as CNF related CO₂ emissions at manufacturing stage are not necessarily low in comparison to other materials, an effective adoption of CNF must be considered thoroughly.



To develop environmentally responsible CNF products, it is advised to conduct lifecycle CO₂ evaluation **in the planning stage prior to CNF adoption decisions.**

Examples for effective reduction through CNF adoption

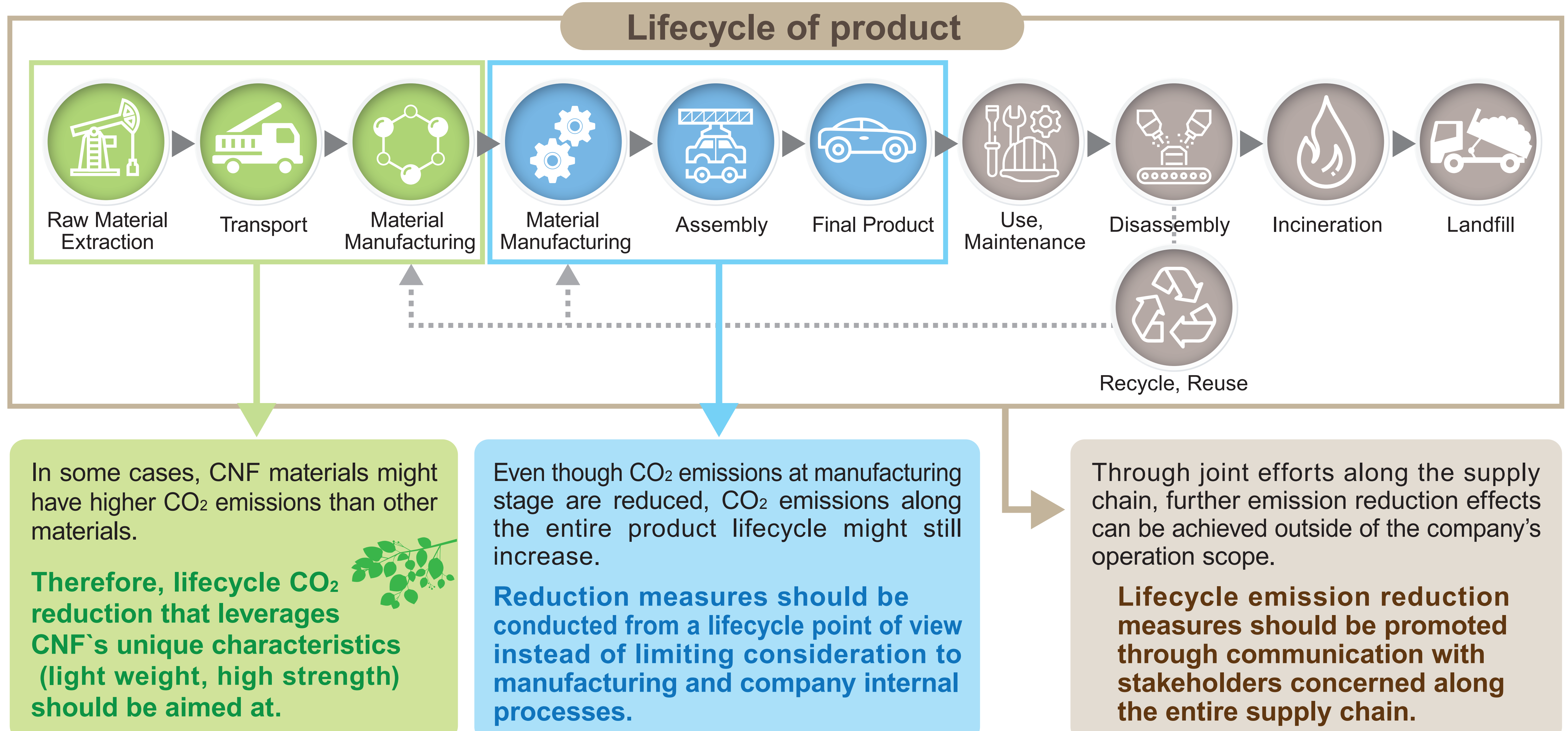


To ensure gaining the highest effects as possible, check which reduction potentials to focus on in case of CNF use.



To correctly grasp CO₂ reduction effects, evaluation of CNF along the entire **lifecycle** (raw material procurement, CNF material manufacturing, CNF product manufacturing, use, disposal, recycling) is vital.

Important points for CO₂ emission calculation



The Ministry of the Environment supports the development of CNF products for applications that lead to decarbonization.

Website- Ministry of the Environment-
Nanocellulose Promotion (NCP) Project

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