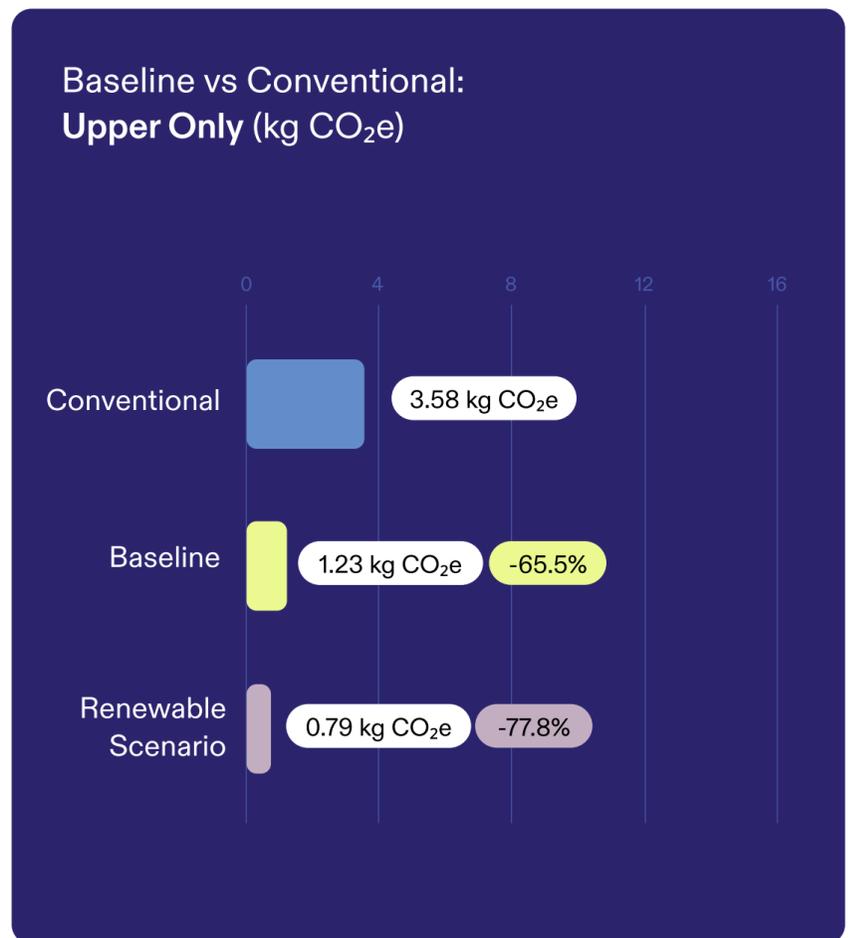
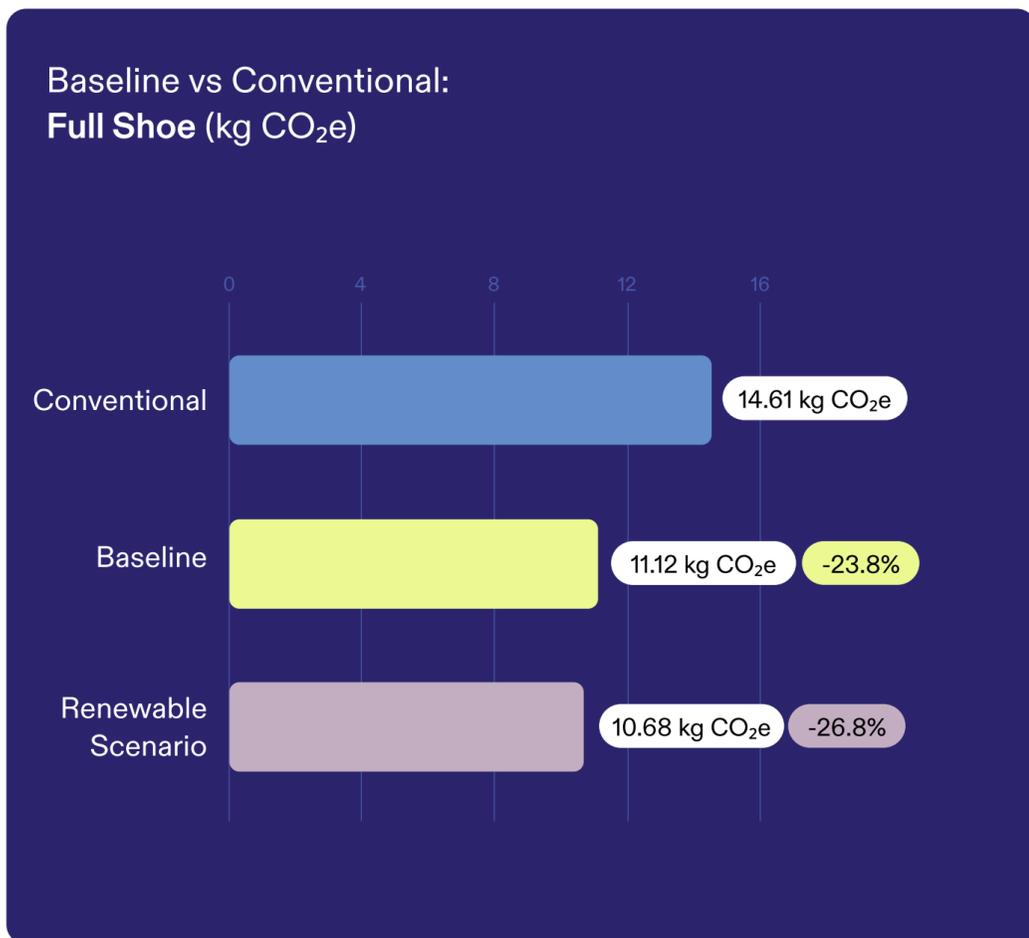


On's LightSpray™ Technology: Prospective LCA 2026

LightSpray™ is On's innovative shoe upper production technology, which uses a robotic arm to form a complete, fitted upper. Now produced in Korea, it employs a streamlined, one-step process that reduces material use and eliminates multiple conventional manufacturing steps. As such, LightSpray™ has the potential to significantly reduce the emissions associated with shoe upper production.

Across multiple production scenarios forecasted using prospective life cycle assessment (LCA), LightSpray™ shows a potential emissions reduction of **65%-78% for the shoe upper** and **23%-27% for the full shoe** (ranges reflected in two comparison cases: 'Baseline vs Conventional' and 'Renewable Scenario vs Conventional'). The results included here are from Vaayu's 2026 Prospective LCA report, conducted for On.



Conventional (normal shoe): On's typical manufacturing process

Baseline (LightSpray™ shoe): On's innovative LightSpray™ manufacturing process

Renewable Scenario: On's innovative LightSpray™ manufacturing process with 100% renewable electricity

The values are consistent with the trends shown in the 2024 Prospective LCA report that On previously conducted with Vaayu, [available here](#).

Full 2026 Prospective LCA report by Vaayu available Q1 2026. Vaayu is a science-based carbon/impact calculation and reduction partner with an in-house LCA team and specialist expertise in retail, fashion, apparel and footwear. Learn more about Vaayu [here](#).

-78%
Up to -78% emissions for the shoe upper