

# A Partnership for Sustainable Packaging Optimization

Integrating science-based carbon measurement directly into packaging optimization.



[carbonquota.co.uk/integration-partners/esko/](https://carbonquota.co.uk/integration-partners/esko/)



# Sustainability in packaging is no longer optional. It's essential.

Every packaging and logistics decision presents an opportunity for climate impact. The integration of CarbonQuota's carbon footprint technology into Esko Cape Pack Prime revolutionizes this process.

The integration of CarbonQuota's science-based carbon footprint solution into **Esko's Cape Pack Prime edition** offers a revolutionary approach to sustainability in packaging optimisation. By combining the robust palletisation and container load planning capabilities of Cape Prime Pack with CarbonQuota's precise carbon footprint database, **businesses can automatically calculate the carbon footprint of packaging and transportation configurations in real-time.**

The screenshot shows the 'Select Your Truck Style' interface. It includes a dropdown for '53-Footer 53-Footer Truck', input fields for 'Inside Container Dimensions (in/ft)' (Length: 636.0000, Width: 96.0000, Height: 102.0000), and checkboxes for 'Select Loading Patterns' (Column, Interlock, Trilock, Diagonal, Spiral, Expanded Spiral). A 3D visualization of a container load is shown with dimensions 636.000, 96.000, and 102.000. Below the interface is a table of solutions.

Sol. No.	Pattern Type	# Per Load	# Per Layer	# of Layers	SP Per Pallet	SP Per Truck	Dim. Vertical	Cube Eff.	Area Eff.	Length Under	Width Under	Product Length	Product Width	Product Height	Product Weight
1	Column	30	30	1	50	1500	Height	51.3	94.3	18.00	0.00	600.00	96.00	55.50	6750.00
2	Interlock	30	30	1	50	1500	Height	51.3	94.3	14.00	0.00	608.00	96.00	55.50	6750.00
3	Interlock	30	30	1	50	1500	Height	51.3	94.3	10.00	0.00	616.00	96.00	55.50	6750.00

*"This new partnership with CarbonQuota makes it simpler for our customers across the value chain to meet their own sustainability goals - driven by both mounting regulatory demands and escalating consumer expectation."*

**Geert De Proost**  
Director Product Partnerships



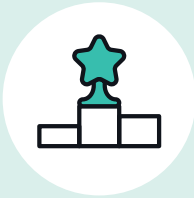
*"By embedding CarbonQuota's certified carbon footprint engine within Cape Pack, we empower converters and brand owners to make smart, low-carbon choices from the very beginning."*

**Dominic Harris**  
Co-founder, CarbonQuota



# Automated carbon footprint measurement for packaging logistics

Benefits for Cape Pack Prime customers



## Competitive advantage

Providing a unique integrated capability to offer real-time carbon footprint for packaging configurations.



## Comprehensive carbon calculations

The system calculates emissions across **secondary and tertiary packaging** providing full transparency.



## Differentiation

Demonstrates leadership in sustainability, attracting eco-conscious clients and partners.



## Real-time insights

Embedded analytics provide instant, actionable data to guide decision-making during the design phase, not after.



## Enables data-driven decisions

Compare **different secondary and tertiary packaging and pallet configurations by their carbon impact**, influencing customer preferences positively.



## Standardised metrics

Meets international carbon reporting standards, ensuring accurate and credible data, reduces risk of greenwash claims.



## Automated saves time and resource

By leveraging CarbonQuota's API integration, users can eliminate manual data entry (taking 30-60 minutes per calculation), significantly reducing human errors and saving time.



## Customisable reporting

Flexible reporting tools adapt to diverse operational needs, making it easier to present data to stakeholders.

# Benefits for **brand owners**



## Consumer trust

Back up sustainability claims with science-based numbers.



## Supplier enablement

Empower your partners to deliver the right data.



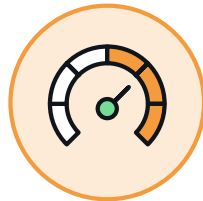
## Transparency

Full visibility of your packaging supply chain's footprint.



## Collaborative sustainability

Align closely with eco-conscious converters.



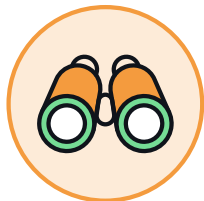
## Comprehensive reporting

Access detailed data per configuration.



## Reputation management

Demonstrate real environmental leadership.



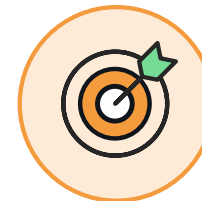
## Global compliance

Get ahead of tightening regulations.



## Certified metrics

Validated by CarbonQuota's robust certification process.

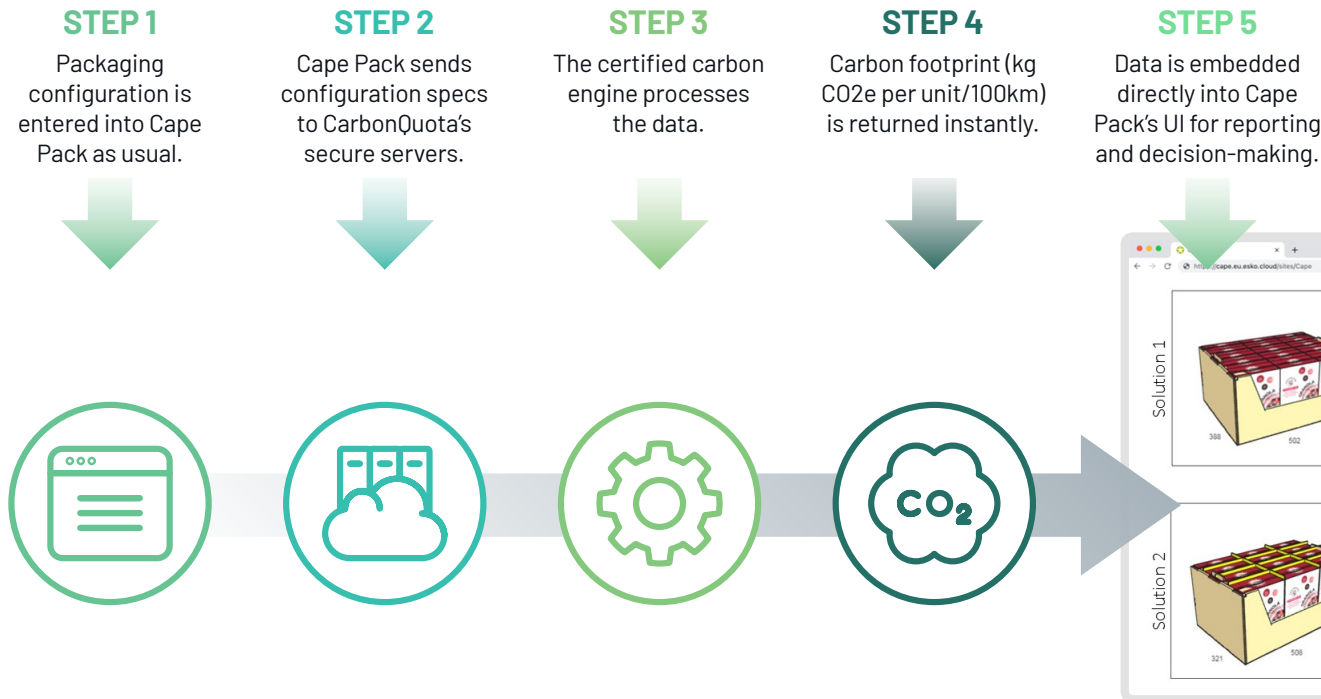


## Goal achievement

Data to drive and prove Net-Zero progress.

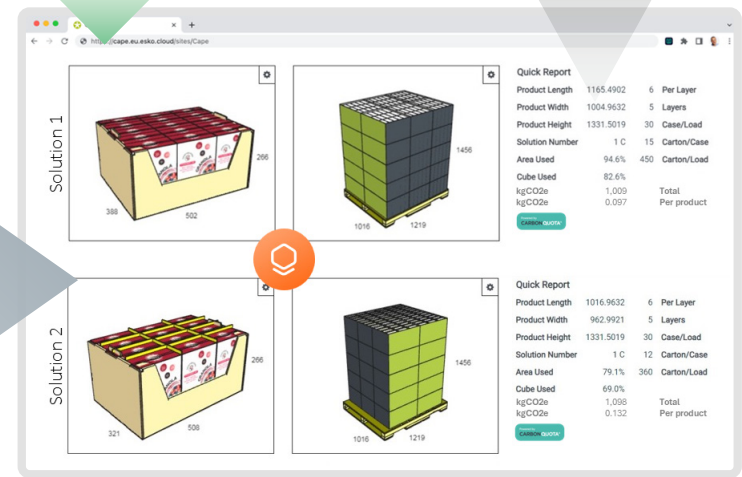
# How it works

Now, businesses can automatically assess the carbon footprint of packaging configurations - including palletisation and container loading, in real time. This capability enables eco-design decisions at the earliest stage, supporting sustainability targets while ensuring regulatory compliance.



Quick Report			
Product Length	1165.4902	6	Per Layer
Product Width	1004.9632	6	Layers
Product Height	1331.5019	30	Case/Load
Solution Number	1 C	15	Carton/Case
Area Used	94.6%	450	Carton/Load
Cube Used	82.6%		
kcCO2e	1,009		Total
kgCO2e	0.097		Per product

Powered by CARBONQUOTA



# Our commitment

Esko and CarbonQuota are committed to helping businesses reduce environmental impact and achieve Net-Zero through data-backed, real-time packaging insights. From eco-optimization to certified reporting, this partnership supports your sustainability journey every step of the way.



## About CarbonQuota

A pioneering technology company specializing in carbon consulting and advanced calculation platforms for packaging, print, marketing, and logistics sectors. CarbonQuota's innovative solutions transform complex environmental data into actionable, certified insights aligned with international standards.

We empower businesses with accurate, automated carbon footprints and customized carbon reduction strategies, to achieve meaningful environmental impact and long-term success.

For more information, please visit [www.carbonquota.co.uk](http://www.carbonquota.co.uk)

## About Esko

Esko is a global provider of integrated software and hardware solutions for the packaging and label industry.

For more information, please visit [www.esko.com](http://www.esko.com)



## Contact us

To learn more about CarbonQuota's integration with Esko Cape Pack Prime and book a demo please get in touch.

Email: [info@carbonquota.co.uk](mailto:info@carbonquota.co.uk)

[www.carbonquota.co.uk/integration-partners/esko/](http://www.carbonquota.co.uk/integration-partners/esko/)

