

tested in key textile markets:







The diagram explains the rigorous process undertaken to develop the Carbon and Water Footprint Tool for OEKO-TEX[®] STeP certified facilities.

5. Developed "proof k of concept' Designed carbon & water footprint mo

The tool enables facilities to input real data. If datapoint is unknown, the model selects the respective default data, then calculates the emissions and water usage.

Input categories:

- **Country Location** \rightarrow Inventory
- → Facility Boundaries
- Transportation → Materials Processed (inputs & outputs)

Resulting output:

Carbon emissions and water reported:

- → per facility
- \rightarrow from "sourcing origin"
- per yearly production

per Facility

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- → per processing step
 - per 1 kg of material output

4. Identified data sources Incorporated relevant datasets

The datasets and models leverage inputs from vetted data sources and credible industry databases to provide "best of" industry averages:

Data sources:

- OEKO-TEX[®] anonymized STeP customer data
- $\rightarrow~$ OEKO-TEX $^{\scriptscriptstyle (\!8\!)}$ experts' data on textile production

Databases:

Steam

→ Packaging

- WALDB environmental data on fibre production and textile processing steps (see Step 2 "Main Categories")
- ecoinvent v 3.5 global/regional/country level data on:
- → Electricity
- → Waste Chemical
- → Transport

3. Selected methodologies Combined product and corporate LCA methodologies

Our approach is aligned with the requirements described in the following standards:

215 312

Product LCA based on ISO 14'040 and PEF - for materials used

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Corporate Water Footprint based on AWARE

Corporate Carbon Footprint based on <u>IPCC 2013</u> - for production related impacts