

## Background:

- This report reveals the specific environmental impact through the product life cycle based on LCI database and evaluation.

## Specifications:

- Product Type: Zenfone V
- Model Name: V520KL
- Operating System: Android 7.0
- Display: 5.2'' super AMOLED

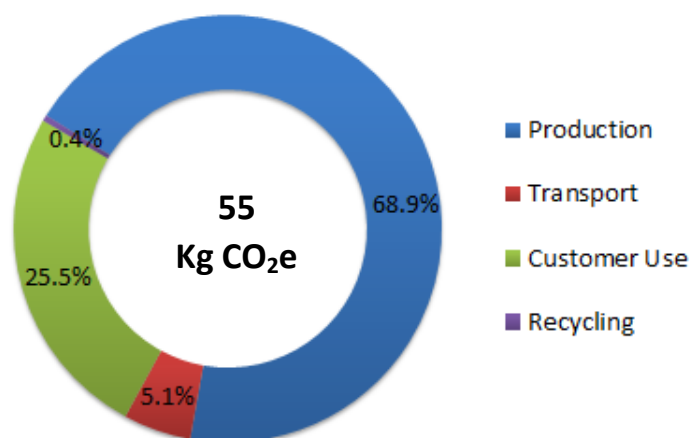


## Evaluation Factors:

- Methodology: Estimated result is calculated in accordance with guidelines as specified by ISO 14040 and ISO 14044
- LCA phase: Production, Transport, Customer use, Recycling
- Impact Category: Global Warming
- Database: Ecoinvent V3
- Analysis Method: IPCC 2013 GWP 100a
- Data Quality: 100% of the total LCA impact is derived from ecoinvent database

## LCA Results:

- The environmental impact is evaluated in the category of global warming. The chart below provides the estimated life cycle greenhouse gas emissions.



## Definitions:

- Production: Including of the production, and transportation of raw materials, as well as the manufacture, transport, and assembly of all parts.
- Transport: Including of air and road transportation of the finished product and packaging from assembly site to regional distribution hubs.
- Consumer Use:
  - Assumes a three-year period. The energy efficiency values are based on the CALIFORNIA CODE OF REGULATIONS TITLE 20, SECTIONS 1601 THROUGH 1608.
  - Usage scenario where a full 8 hours charge once per day.
- Recycling: Including of transportation from collection hubs to recycling centers.
- Supplementary note: Global warming is identified as the significant impact based on the following references:
  - Material topic of stakeholders' engagement.
  - Relevance of UN SDGs to technology industry.
  - Analysis result from industrial product environmental report.