

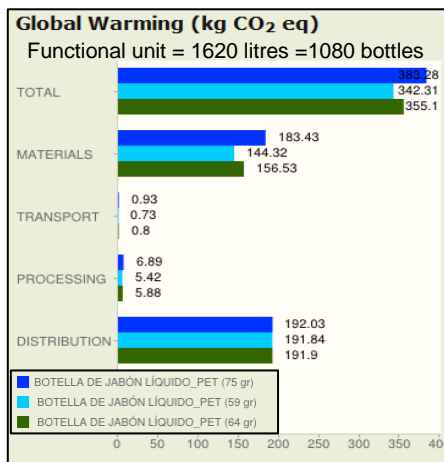
# Bio-based plastics

## Case study SME

### PONS QUIMICAS S.L.



**PONS QUIMICAS S.L.**, is company located in Javea, Alicante (Spain) specialized in the production & development of detergents, cleaning products and insecticides since 1960. **PONS QUIMICAS S.L** has applied **LCA to go** tool to evaluate the environmental improvement of a new package design for a liquid cleaning soap.

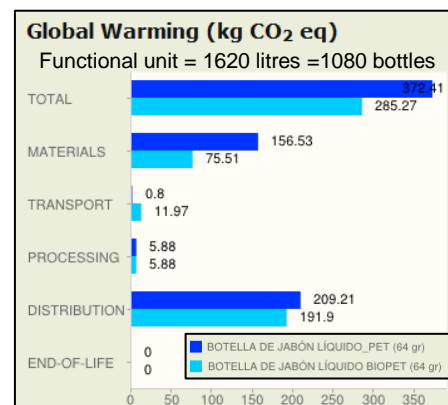


The company, **PONS QUIMICAS S.L** decided to be part of the program **LCA to go** encouraged by **ITENE**. The most relevant aspects for the company were their general interest on global warming analysis of their packaging formats. Moreover, there was a need to examine the improvements they had achieved with their new designs of the bottle

The **LCA to go** tool was used in order to assess the main environmental improvement strategies of the new prototypes of PET bottles.

Based on different strategies for environmental improvement recommended by **ITENE**, it was valued a potential carbon footprint minimization of about 7.35 % if it is considered the actual bottle weight reduction. Moreover, it was considered a possible carbon footprint minimization of about 10.69% if it is achieved the expected reduction.

Furthermore, if it is considered the same product produced from bio-based PET, it is considered the following improvement. The Bio-based polymer achieve a potential carbon footprint minimization of about 23%.



After the successfully finishing of the case, **QUIMICAS PONS S.L** concluded that the tool had an intuitive interface, and made it easy to generate comparisons between packaging design alternatives.

