



## Annex II: Phoenicia Glass Works, Ltd.

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Phoenicia Glass Works, Ltd.

Phoenicia Glass Works is a glass producer that produces bottles and jars in all colours with one furnace and four production lines. The maximum pull from the furnace is 110.000 t/y; but currently Phoenicia pulls only around 90.000 t/y (800.000-900.000 bottles per day). One of the reasons is that they produce different coloured products with just one furnace, which results in substantial losses in time and output when changing the colours. Phoenicia produces 10 m/y flint glass and only 1-2 months coloured glass. Based in South Israel, Phoenicia employs 240 people.

Phoenicia Glass Works is furthermore the only operating recycling plant for glass in Israel. It started its activities in glass recycling 15 years ago and covers today around 50 % of the market for glass products; the rest of glass products on the market are imported. When Phoenicia started in 2003, in 2012 they received around 40.000 t of cullets every year. Since then, the amount of cullets decreases every year. Phoenicia identifies one main reason for this: The fact that both the deposit and the packaging laws don't set specific targets per material stream but for all streams as well as that the targets in the deposit law are set by number of bottles and not by weight. Since Aluminium and PET are lighter and achieve higher prices on the market the targets are reached by collecting mainly those materials rather than glass.

While the glass arrives to the plant already sorted by colours, there is still an issue with contamination by other waste fractions. Therefore Phoenicia is currently operating a sorting line to process and crush clean and remove the labels, sorting it again and putting it in the furnace. Both coloured and flint glass is arriving to Phoenicia's plant. While Phoenicia has mainly an interest in flint glass they are usually obliged to buy both flint and coloured glass from the collectors who want to sell all to one customer. Phoenicia on the other hand has an extra capacity of 30.000 flint cullet per year. Currently they are not able to purchase this amount and are thus using virgin material. Phoenicia expects that if the conditions remain the same then the shortage of flint glass will remain while there will always be enough coloured glass (also due to imported products being often in coloured glass).

### Main problems identified

- Lack of capacity, only one furnace and decreased efficiency due to using one furnace for different colours
- Shortage in flint glass for recycling
- Low collection rates of glass bottles: currently around 50 % → lack of security of feedstock

### Key recommendations

- Support to local recycling industry and to keeping the material in the country
- In packaging & deposit law: Set recycling targets per waste stream and by weight



- Cheap raw materials for glass production in IL and the international competition to recycling industry makes it difficult to be competitive as a recycler in IL

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