



## Annex VIII: K.B. Recycling Industries

[www.kb-recycling.com](http://www.kb-recycling.com)



KB Recycling exists as a recycling company since 2008 but has been reborn in 2017, now focusing on the recycling of poly-olefins from industrial, agricultural and domestic plastic waste and the production of raw materials for the plastic industry. With 40 employees and a maximum capacity of 450 t/m, KB Recycling is currently the only company in Israel that recycles high contamination film waste from domestic and agriculture sources. The key innovation of the KB Recycling plant is the direct production of 100 % recycled final products, thus eliminating one production and transport step and therefore reducing energy, pollution and resources. This final process step is currently under construction.

### Activities KB Recycling

- Collection and sorting of plastic recyclables either at KB Recycling or at subcontractor's facilities
- Transportation to KB Recycling plant
- Recycling: Washing, extruding. Under construction: two calendars and a shredder
- Production of final products
- Quality analysis & sales
- Transportation to costumers

Plastic waste sources	Plastic waste types	Final plastic products
<ul style="list-style-type: none"> <li>▪ Agriculture: PE films, PE &amp; PP sheets, PE &amp; PP pipes, PS planting trays</li> <li>▪ Industrial waste: PE &amp; PP pipes, PP sheets, PP single-use cutlery, PS single-use cups</li> <li>▪ Household: PE, PP, PS from sorted household waste</li> </ul>	HDPE LDPE PP PS	<ul style="list-style-type: none"> <li>▪ PEL113 (LDPE)</li> </ul> In the future also: <ul style="list-style-type: none"> <li>▪ Sheets</li> <li>▪ Boards</li> <li>▪ Pipes</li> <li>▪ Bags</li> </ul>

While not being profitable yet, the company has a strong idealistic drive and highlights its zero waste policy and leadership in social values (gender balance, work environment for all religions and nationalities).

### Main problems identified

#### Quality of waste input

- The plastic waste from household collection arrives as sorted waste at their plant, but the quality is quite bad → the authorities don't understand the sorting needs. Ideally, the plastic should be delivered already separated in PE and PP
- Plastic waste is contaminated with laminate and

### Key recommendations

#### Strategy:

- Long-term strategy from the government
- Israel should aim for being a leader also in environment

#### Targets/legislation:

- Restriction or ban of export of recyclables



aluminium in plastic; KB Recycling will thus have to set up an additional sorting step.

- Foils from agriculture have up to 70 % contamination. This poses additional recycling difficulties and thus only KB Recycling is currently recycling these films.

#### Market demand & competitiveness

- Currently KB Recycling pays Tamir for the sorted plastic film from households while they are the only ones that can recycle it and should thus not have to pay for the material;
- The price for recycled PE dropped by 25 % in the last five months and is thus not competitive
- Government allows export of waste to Asia and thus Israeli companies like KB Recycling have to compete with Malaysia, Vietnam, or other Asian countries.

- Higher landfill tax
- Obligation to a certain percentage of recycled plastic in new plastic products
- Standards for sorting

#### Financial support:

- The budget earned through the incomes from the packaging law should be redistributed to recycling companies
- Financial support to the recycling industry, for example through a subsidy of each ton of recycled waste
- Support to industry is needed in order to be competitive on the global market and with the current low prices for virgin material

#### Other:

- Comprehensive law enforcement
- Investment in education

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