



Chemical Leasing Company for Cleaning of Metal and Car Parts - A success Story from Egypt

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Background



- In close cooperation and coordination with the Egypt National Cleaner Production Centre , Metal Parts Cleaning company was established in Egypt in 2009 as a highly specialized company in Chemical Leasing (ChL) for serving the different industrial sectors with the activity of cleaning of metal parts with hydrocarbon solvent.
- The company is a joint venture between Dr Badawi Chemical Work in Egypt and a Greek company which has a long outstanding experience in applying this activity in Greece for almost 20 years since 1985 which were serving more than 5 000 workshops.

Target Sectors

- With an initiative from the ENCPC , Super Clean Company has created its own model for safe and environmentally sound system of metal parts cleaning in the automotive and truck services and maintenance shops.
- The company was targeting at its first phase of operation in the Egyptian market, the small maintenance and car repair workshops affiliated to the automotive companies in Egypt.
- The ENCPC was active in providing technical assistance through a identifying the scope and target clients through a comprehensive targeted survey

Chemical Leasing Model

The model is mainly based on ***self-running model on*** the following:

- 1- Replacing gasoline in parts washing with less aggressive solvent which is formulated by Dr Badawi.
- 2- Providing a machine for free that re-circulates a certain amount of cleaning liquid (30 liters) with stringent safety measures for workers and collection system.
- 3- Collecting and removing the solvent waste from working place for recycling and supplying fresh solvent on an agreed time schedule.
- 4- Computerized distribution system with specialized software from Super Clean Company with regular site visits and technical support.
- 5- Fixed Leasing fee (L.E) per Washing Machine used for cleaning of metal parts of equipment per Month.



General Benefits

1-Economical Benefits:

- Reduction in Cost of Cleaning up to 30 %
- High efficiency in terms of performance and final quality of cleaning (decrease losses of products due to inadequate quality)

2- Environmental & Technology:

- Closing loop of solvent waste through recycling at supplier premises and final disposal of hazardous waste
- Application of simple environmentally and friendly sound technology for SMEs
- Substitution with less aggressive solvents
- Less VOCs emissions
- Compliance with environmental regulations in terms of waste management

3- Organizational Benefits (in terms of Quality and Workers Health)

- High quality of performance in the cleaning of metal parts
- Capacity building for technicians on proper handling and application of solvent and its risk and hazards