

# Waste

## Waste



### Introduction

SolWaste presents a methodology to define a roadmap for the abatement of non sustainable industrial waste abatement while minimizing waste management costs. To do so, SolWaste provides:

- A Waste **diagnostic** methodology including data preparation & ideation workshops focusing on most impacting production units & waste streams.
- A set of proven best practices to better manage industrial processes in a more sustainable way at lower costs.
- A library of key technologies allowing for more sustainable & less costly waste treatment solutions.

The **scope** of this standard includes :

- **Non-hazardous** liquid and solid waste treatment; gathering, recovery and disposal of non-dangerous waste.
- **Hazardous** liquid and solid waste treatment; gathering, recovery and disposal of dangerous waste.
- **Products or by-products** treated or valorized by a supplier at a cost for Solvay, being or not classified as waste.
- **Expenses paid** to collect (manpower supplied and/or rental equipment), transport, treat, and valorize the waste, including all taxes related to such waste streams.
- Scope of **technologies** and **waste treatment** services within this package (recovery/ recycling, incineration with/without energy recovery, landfill).

## Key Definitions

**By-products:** a material that is not deliberately produced but is produced as an integral part of the process, for which there is a certain reuse application without further processing.

The definition of a waste can vary from one country to another. More details in the [Regulatory Guidelines for Waste initiatives](#).

**Waste:** usually described as any substance or object which the holder discards or intends or is required to discard.

The definition of a waste can vary from one country to another. More details in the [Regulatory Guidelines for Waste initiatives](#).

**Non Sustainable Industrial Waste (NSIW)** : any waste that is landfilled or incinerated without energy recovery.

The Reference for **(non) Hazardous** classification of a waste can vary from one country to another. More details in the [Regulatory Guidelines for Waste initiatives](#)).

## Data collection

- Consolidated table of volumes, costs, Haz / Non Haz classification and treatment method for all waste streams;
- Block diagrams at plant-level to map main Waste flows;
- Integrate data from Material Use workstream (cost & scope 3 impact of material losses)
- Composition of key waste streams currently not sustainably treated;
- What is hindering a more sustainable treatment?
- Organic growth / step changes / discontinuity perspectives of the main Waste flows;
- Past & Ongoing projects and ideas to optimize the valorization of main waste streams;

[Excel summary for data sharing](#)

[Data collection process detailed here](#)

[Data collection best practices](#)

## Optimization levers for waste management treatment

#1: Apply the sustainable **waste management hierarchy** (Reduce > Reuse > Recycle > Energy > Dispose)

#2: **Reduce volume** at the source.

#3: **Sort** at the source.

#4: Know the detailed **composition & calorific value** of the waste.

#5: **Reduce hazardness** of the waste (can facilitate Waste to Energy options).

#6: Be connected to the **SOP Task Force** on Waste. Share & learn best practices.

#7: Use the **Solvay Waste Bank** to foster synergies within Solvay.

#8: **Connect** with local ecosystems & external partners. Collaborate with Solvay suppliers & customers.

#9: Use external **Waste exchange platforms**. Submit waste offers.

#10: No saving at the expense of the planet. Switching from **energy recovery to landfill is not an option**.

[Best practices examples here](#)

[Technologies and tools](#)

## Roadmap definition and implementation

The roadmap is divided into 5 phases (more details [here](#)):

- Data Collection
- Waste Workshops
- Consolidation of ideas in macro packages
- Prioritization and planning
- Roadmap validation

### **Navigation tree**

[Expand all](#) [Collapse all](#)

### **Pages recently viewed**

#### Key Documents

- [Solvay Life Saving rules](#)
- [HSE Waste Management Guideline](#)
- [HSE Waste Management Procedure](#)
- [Group Requirements for Serf Reporting](#)
- [Contractor Management & HSE Group Requirements](#)
- [Regulatory guidelines for Waste initiatives](#)
- [Basel Convention](#)

#### Synthesis standard one pager

- [SolWaste standard](#)

#### Relevant Tools:

- [Data collection excel](#)
- [Technology and tools](#)

#### Key Trainings:

#### Key contacts

- [Richard Bourdon - Domain Leader EMEA](#)
- [Arber Shasivari - NAM](#)
- [Cenzhi Guo - APAC](#)
- [Cedric Humblot - EMEA](#)

#### Linked pages:

