

Environmental Policy

General guidelines

Nuova Sima operates in the market of **flame-retardant additives** which, over the last decades, has been increasingly oriented towards the use of products with low toxicity and reduced environmental impact.

Since its foundation, Nuova Sima has chosen to establish itself in the production of flame-retardant fillers derived from the processing of **natural minerals** (especially Magnesium DiHydroxide, MDH and Aluminium TriHydroxide, ATH) and capable of replacing both synthetic fillers of the same chemical composition but having a higher environmental impact as well as others highly toxic flame-retardant additives (e.g. halogenated compounds).

With a view to continuous improvement, Nuova Sima is constantly working **to counter climate change** through its commitment to reducing the environmental impact of its activities, setting targets and planning actions within the following areas:

1. Environmental impact of production processes (Scope 1, 2 of GHG protocol)
2. Development of new products with reduced environmental impact (Scope 1, 2, 3 of GHG protocol)
3. Communication, awareness and training policies (Scope 3 of GHG protocol)

1. Environmental impact of production processes

The production processes of synthetic precipitated flame-retardant additives often require high consumption of water and other chemical additives, as well as thermal and/or electrical energy for final drying. Furthermore, for some types of products (e.g. aluminium hydroxides) huge quantities of toxic and environmentally hazardous waste are generated (e.g. red sludge generated by the Bayer process).

Nuova Sima, on the other hand, utilises **production processes** (dry milling of natural minerals) with an intrinsically **lower environmental impact** thanks to:

- **total absence of water consumption**
- **use of less thermal and electrical energy**
- **no toxic or hazardous waste**

Nonetheless, Nuova Sima is constantly committed to **implementing those actions** that enable further energy saving and/or the use of renewable energy sources, as follows:

General targets

- Increase the share of electricity purchased from renewable sources (Scope 2)
- Reduction of electricity consumption per product unit (Scope 2)
- Reduction of methane consumption per product unit (Scope 1)
- Increase the efficiency of downstream transportation of the products to customers (Scope 3)

These targets are related to proper **KPIs**, which are continuously monitored and are reviewed / updated during the periodical management reviews.

2. Development of new products with reduced environmental impact

Nuova Sima is continuously investing in its **R&D** activities aimed to develop and industrialise **new products** having **lower carbon footprint**.

As stated in the paragraph 1, our products are **non-toxic**, with **low environmental impact** and **zero waste**.

During its history, Nuova Sima has developed and industrialised many different grades of flame-retardant MDH and ATH for different applications, mainly in the field of plastics and rubber for power and telecommunications cables as well as for the building industry.

The development of new products is aimed to the following general targets:

General targets

- Implementation of R&D projects for the development of products with lower carbon footprint (Scope 1, 2, 3)
- Continuous updating and certification of EPDs of major volume products (Scope 3)
- Marketing actions to increase the sales of lower carbon footprint products (Scope 1, 2, 3)

These targets are related to proper **KPIs**, which are continuously monitored and are reviewed / updated during the periodical management reviews.

3. Communication, awareness and training policies

Nuova Sima is constantly committed to:

- develop the awareness that environmental protection is the responsibility of all employees, each according to his or her competencies
- sensitise its customer to the best environmental practices and to develop innovative technologies with the purpose to increase the replacement of high carbon footprint products with natural mineral derived products, having consistently lower carbon footprint
- continuously updating of the website with news regarding the environmental information related to its product portfolio (EPDs, R&D projects and innovative solutions)

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Nuova Sima Srl
Management

