

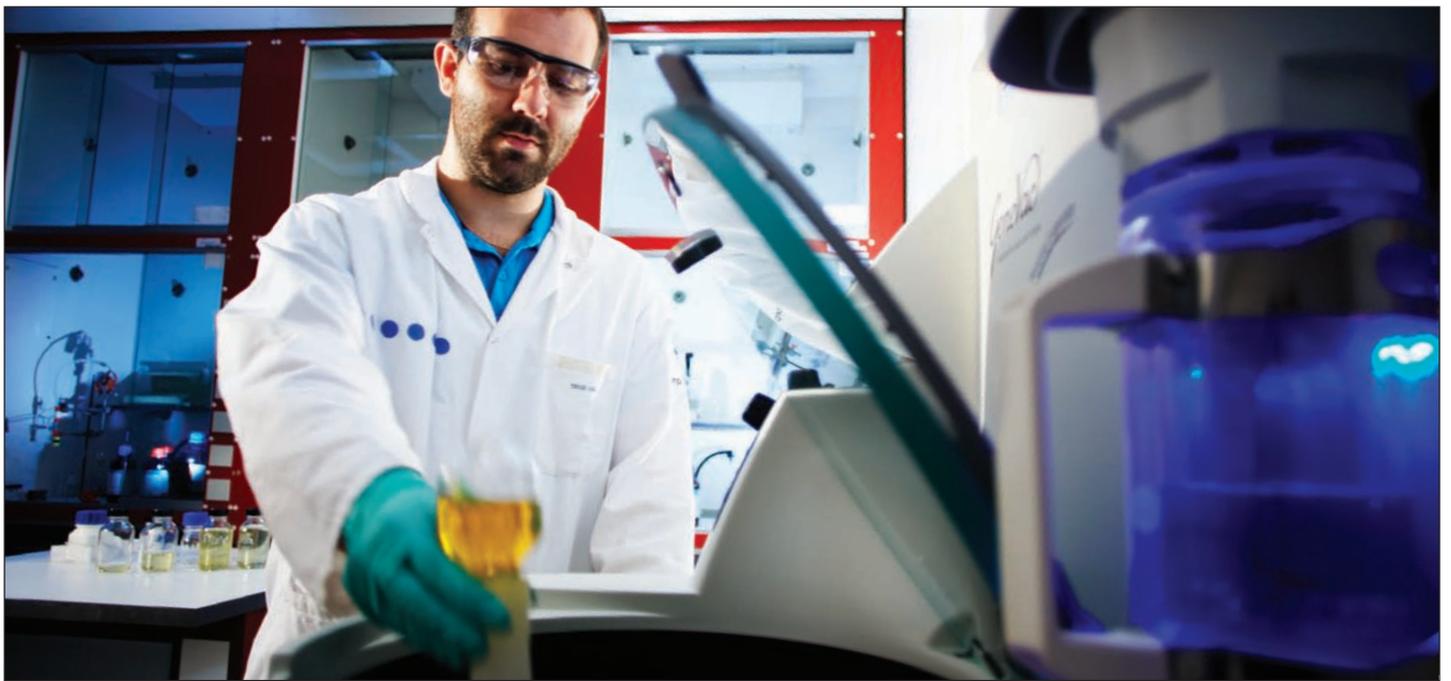
# High Level Integrated Chemistry



**A “plug and play” organization around chlorine, phosgene and hydrogen expertise**

**Grenoble Chemical Park**





Expertise dedicated to chemical industries

# Outstanding services

## Main industrial services :

- . Engineering
- . DCS conception & implementation
- . Maintenance
- . Laboratories
- . Logistic & Supply Chain
- . Customs
- . Warehouses
- . High temperature incineration of liquid and gaseous chlorinated wastes

## Main EHS services :

- . Process Safety
- . EHS management
- . Security
- . Wastes management
- . Equipments inspection and control (Certification from the French Authorities)
- . Occupational Medicine
- . Emergency Plans management
- . Fire Brigade (40 volunteers)

## Others

- . Training Center
- . IT & Networks
- . Communication & Public Relations
- . Restaurant

## Key figures and facts:

- . 7 companies
- . 700 employees
- . 200 permanent subcontractors
- . 1 million mT of raw materials
- . Assets : 1 billion euros
- . Investments : 40 - 60 million euros per year
- . High level standards with several certifications: OHSAS 18001, ISO 14001, ISO 9001-2008

The companies located in the Grenoble Chemical Park are among the leading players in industry in the Grenoble area. Their aim is to ensure the sustainable development of their business. In order to do so, they have committed themselves to policies of continual progress, aimed at achieving excellence on all levels : skills, human health and safety, reliability of installations, competitiveness and quality of output, respect for the environment... The “plug and play” organisation in the complex makes it possible to pool industrial services, equipments and facilities.





120 hectares dedicated to chemical industries

# Raw materials & utilities

Originally built for chlorine production, the site takes advantage from an outstanding heritage and now applies advanced technologies, including some which are recognized as exemplary: electrolysis, cogeneration of electricity and steam, chlorination, hydrogenation, nitration, phosgenation, distillation, formulations, polymerization, high-temperature incineration, etc. The site's industrial rationale is based on the integration and complementarity of production. This structure has the advantage of optimizing flows of materials from one workshop to another.

### Main raw materials :

- . Chlorine, soda, carbon monoxide, hydrogen, phosgene, toluene, acids (hydrochloric, nitric, sulfuric...), amins, trichloride phosphorus, brine, salt...
- . The site is also connected with ethylene and propylene pipe-lines

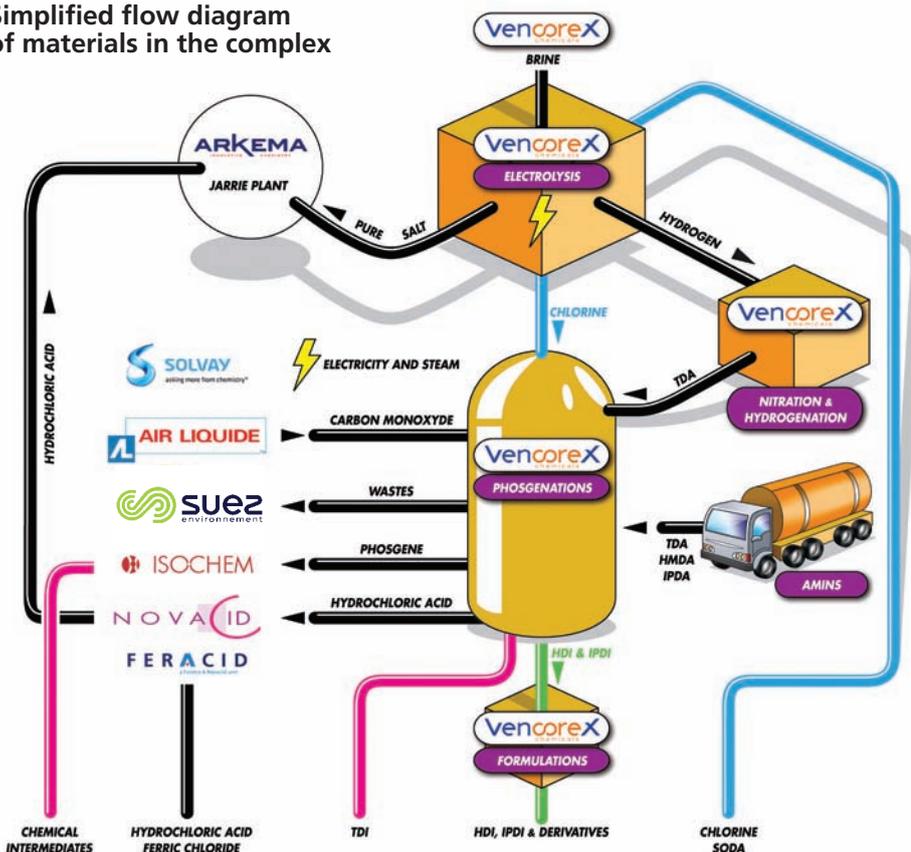
### Energy resources

- . Electricity (low & high voltage), natural gas

### Utilities

- . Steam (low & high pressure), water, nitrogen, oxygen

Simplified flow diagram of materials in the complex



# Grenoble: more than just a location!



## Grenoble Chemical Park, best in class for:

### Logistics

- . Located close to international airport and key highways.
- . Direct railway access with train station on the site.

### Human resources :

- . Proximity to the city of Grenoble (230,000 inhabitants) allows the recruitment of well-educated employees.

### Local environment

- . Excellent relationships with local environment & full support of local communities

### Innovation

- . Connections with Grenoble University, Research Centers and AXELERA (Chemistry and Environment Competitive Cluster from Lyon and Rhône-Alpes).



[www.grenoblechemicalpark.com](http://www.grenoblechemicalpark.com)