



FIRE & EXPLOSION SAFETY EXPERTS

- Fire Testing ■ Fire & Explosion Safety Engineering ■ Training
- Modelling ■ Products & Services Certification ■ Expertise
- Inspection ■ Investigations ■ Fire & Rescue

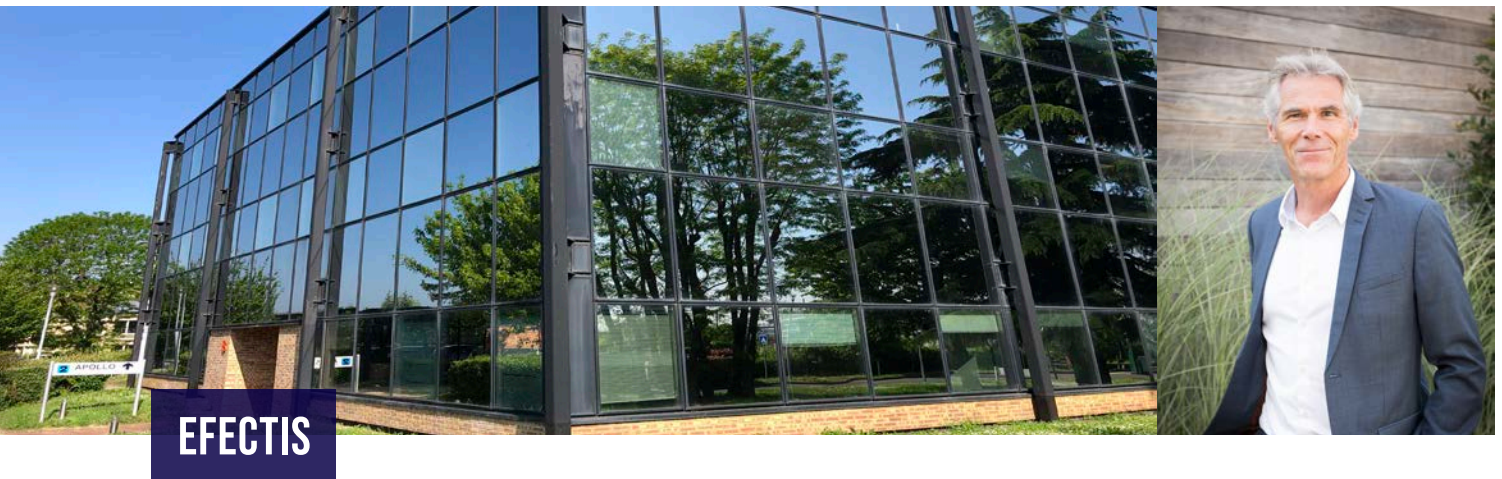


OUR STRENGTHS

Our fire resistance and reaction to fire tests are performed according to national, european and worldwide standards: ISO, EN, IMO, HC, HCM, RWS, UL, FM, BS, ASTM, GOST, GNB and NBR.

Efectis has extensive experience in testing products according to the EXAP (Extending Application) standards allowing us to minimize the number of tests.

In addition to standardized tests, Efectis can perform any specific tailor-made test such as oversized specimen tests, extended testing time, higher exposure, etc.



With offices located in France, The Netherlands, UK, Türkiye, Spain and Italy, Efectis is a global player in the Fire science and specialises in fire and explosion safety, including testing, modelling, certification, education and inspection, whatever the sector (Building, Nuclear, Energy, Residential, Industry, Infrastructure, Wildland fire..).

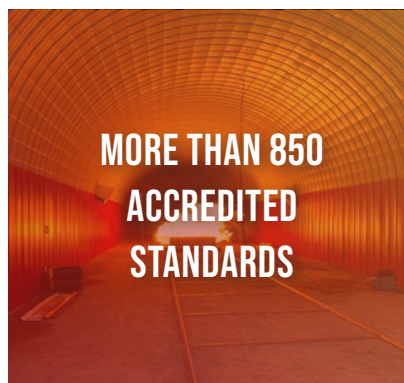
In May 2024 the Efectis Group successfully recapitalized in conjunction with CTICM and Fonds France Nucleaire assisted by Bpifrance, allowing the management team to progress it's business strategy and investment program.

Accordingly, I am please to inform you of the opening of a new Efectis laboratory in Wales by the end of 2024 to further address our demand in the UK market in addition to the laboratory in Northern Ireland. A new building dedicated to reaction to fire tests on the "Les Avenières" site in France has been erected and has been fully operational since July 2024.

The day-to-day activities of Efectis focus on the carbon footprint reduction of fires. This is wholly supported by the management team and reflected in the ESG policy.

Daniel Joyeux
President

Figures





OUR ACCREDITATIONS, CERTIFICATIONS, RECOGNITIONS

OUR ACCREDITATIONS, CERTIFICATIONS

- ISO/IEC 17025 Accreditation (TESTING)
- ISO/IEC 17020 Accreditation (INSPECTION)
- ISO/IEC 17065 Accreditation (CERTIFICATION of Products & Services)
- QUALIOPi Decree Certification (TRAINING)
- ISO 9001 Certification
- ISO 19443 Certification (NUCLEAR SAFETY)
- CEFRI-E Certification for radiation protection
- EDF-UTO Qualification
- I.M.O. Qualification
- Notified Body for CE-MARKING
- Approved Body for UKCA (UK Conformity Assessed)

OUR MAIN RECOGNITIONS, COLLABORATIONS

- FM approval
- INTERTEK for American market
- LLOYD'S approval for jet fire testing
- DIBT for specific German application
- VKF for Swiss market
- BHRC (Building & Housing Research Centers) in Iran
- KFSD (Kuwait Fire Service Directorate)
- Civil Defence of United Arab Emirates
- Civil Defence of Qatar
- SASO (Saudi Standards, Metrology and Quality Organization) in Saudi Arabia
- SES Ukraine

FIRE TESTING IN LABORATORIES

Effectis' extensive testing facilities allow us to carry out almost any type of fire test. These vary from standardised tests up to tailor made tests. Effectis does invest each year in new testing devices for enlarging its assessment services of all your products and systems.

FIRE RESISTANCE TESTING



REACTION TO FIRE TESTING



CLADDING & FACADE TESTING



MOBILE FURNACE



FIREFIGHTING SYSTEMS' TESTING



IN SITU TESTS

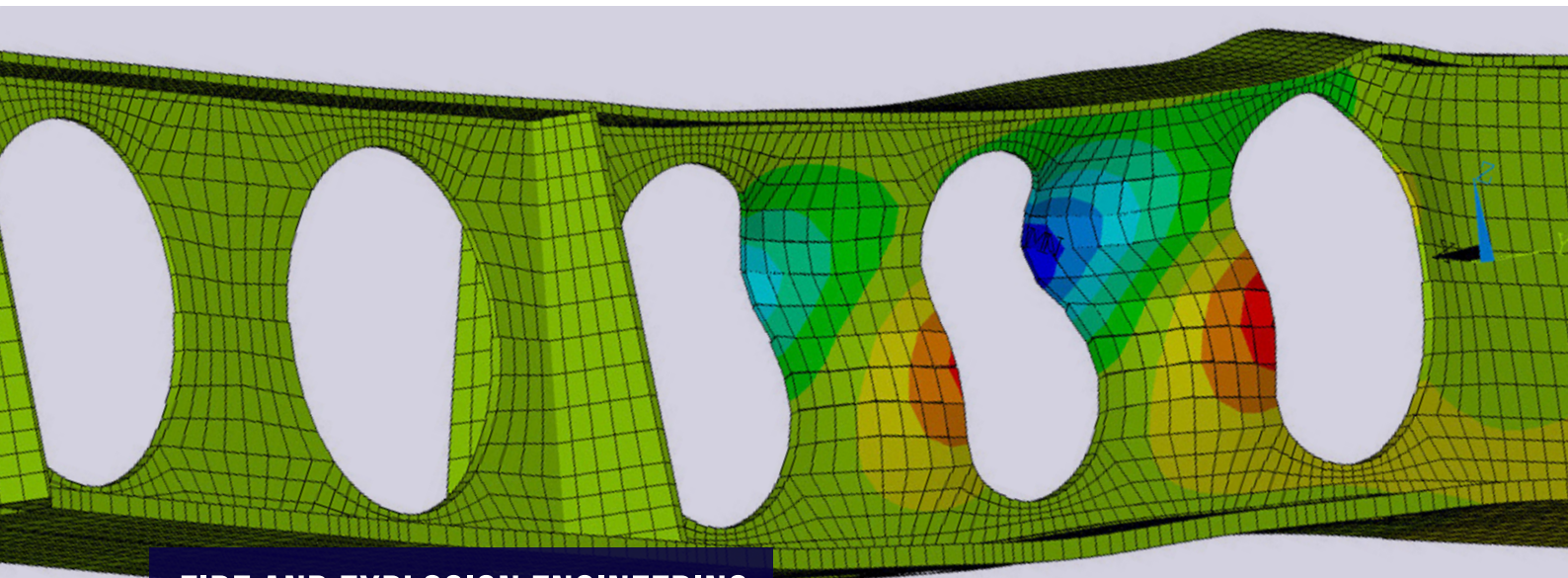


TESTS COMBINATIONS



LARGE SCALE TESTS





FIRE AND EXPLOSION ENGINEERING

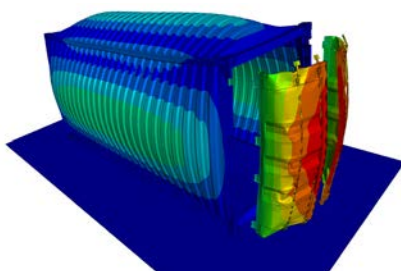
Engineering

FIRE RISK ASSESSMENT AND RISK ANALYSIS

- Buildings
- Nuclear power plants and power stations
- Industrial sites and onshore & offshore facilities
- Hydrogen production and distribution units

FIRE AND EXPLOSION MODELLING

- Fire and explosion modelling in open and confined environments
- Parametrical study of fire development
- Overpressure and thermal impacts including assessment of safety distances
- Fire and gas detection studies
- Interaction of blast waves with the built environment

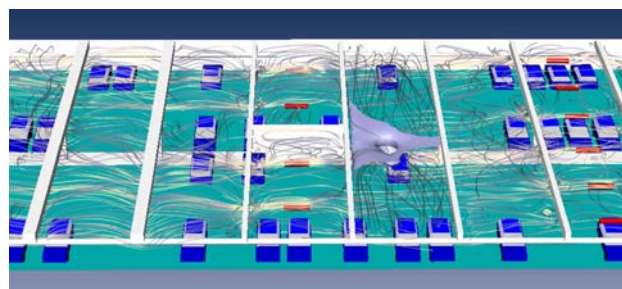


CODE CONSULTING

- Fire and life safety code analysis
- Code compliance review
- Code evaluation and conflict resolution

ASSESSMENT OF ENVIRONMENTAL ISSUES

- Atmospheric scattering simulation of pollutants and combustion products
- Evaluation of safety distance from toxic effects



SMOKE SPREAD STUDIES

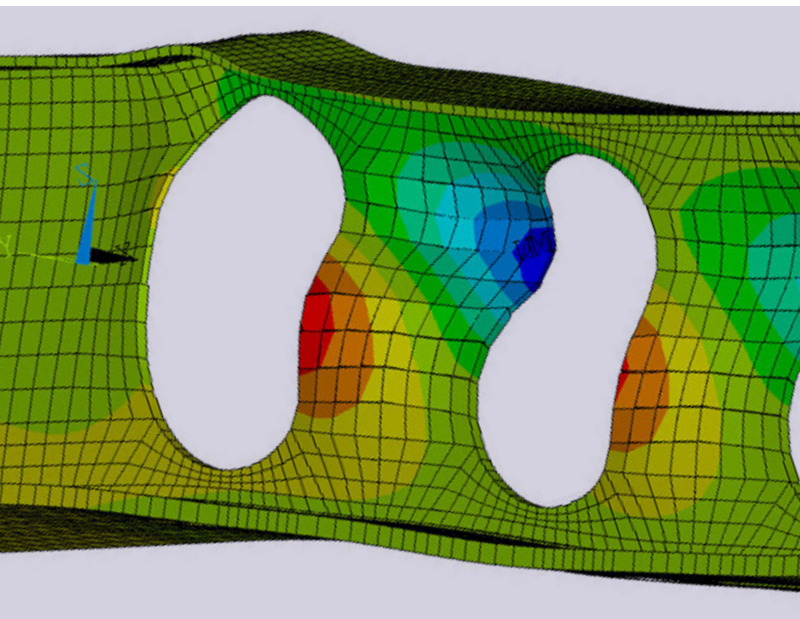
- Simulation of fire effluent spread
- Design and validation of mechanical smoke exhaust systems
- Toxicity and smoke opacity

FIRE BEHAVIOUR OF PRODUCTS AND SYSTEMS BY MODELLING APPROACH

- Construction products: doors, partitions...
- Safety equipment: dampers, fans...
- Protection products: intumescent coatings, sprayed products, board...

STRUCTURAL FIRE AND EXPLOSION ENGINEERING

- Modelling of structural fire and explosion behaviour (timber, steel, concrete, composite...) exposed to real or standard fire and explosion
- Failure mode of structure (progressive collapse)
- Verification of fire and blast walls integrity
- Validation of structural design

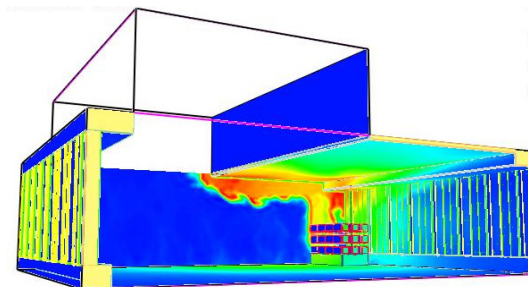


FIRE SPREAD AND PROTECTION OF BUILDINGS

- Assessment of building performance from external effects: explosion, jet fires, pool fire, BLEVE, boil-over...
- Vulnerability of environment from fire and explosion impact
- Forest fires vulnerability at wildland-urban interface

EGRESS CONDITION MODELLING

- Modelling evacuation conditions of public buildings, storage and industrial sites
- Fire detection, alarm and mass notification systems
- Assessment of egress management
- Egress conditions for disabled people
- Conditions of fire safety of operators remaining on site (control room, safe room...)



FIRE EXTINGUISHING MODELLING (CFD)

- Fire extinguishing systems interaction
- Fire scenarios design including active systems
- Impact on structural assessment

Operations

FIRE AND RESCUE

Efectis operational approach for ensuring the infrastructures security and safety, the protection of civilian populations, interveners and goods.

- Risks analysis and operational responses
- Technical and technological supports
- Crisis management
- Tests for fire fighting
- Certification of extinguishing systems
- Training rescue workers (fire safety officers, firefighters...)
- Optimizing fire fighting (water needs)



Investigations

INTERNATIONAL FIRE AND EXPLOSION INVESTIGATIONS

- Quicker recover of exploitation after fire
- Determining the origin cause and development of a fire or explosion
- Analysis of the products/systems performance after fire
- Tests and numerical assistance to support the work of experts (fire and explosion behaviour and fire and explosion dynamics)



ON SITE EXPERTISE, APPROVALS AND CERTIFICATION

Efectis offers solutions during construction and for the operation of buildings and installations either with official certification and approvals, or with on site assessments. After a fire, Efectis can assist you to recover business activities as soon as possible and to reduce financial losses.

CE AND UKCA MARKING OF CONSTRUCTION PRODUCTS

Efectis is a Notified Body instead of CE marking (see Nando website Notified Bodies N° 1812, 1234, 2184) of construction products with fire characteristics.



Efectis is an Approved Body (N° 2822) for UKCA and UK(NI) Marking - see database from MHCLG (Ministry of Housing, Communities and Local Government). Our notification covers principally construction products with fire performance: smoke and heat exhaust systems, fire protective products, glass in building, thermal insulation, floorings, doors, cables, etc.

OTHER CERTIFICATION

Efectis is recognised by many countries or private organisation for certifying the fire performance of products and systems, either based on EN standards or other international/national standards. In other countries, case by case recognition is adopted.

EXPERTISE

The Expertise teams are involved in all types of construction projects, by assessing the compliance of construction products and their application with regard to the requirements of the various fire regulations.

These studies justify fire resistance performances based on existing fire tests. They can be linked to:

- The degree of fire stability of the structures and their protection
- Fire resistance performance of doors, partitions, glazing, etc.
- Resistance to external fire of façades (façade assessment)
- Performances of smoke extraction systems
- Compliance with the requirements of the mechanism and automatism
- Verification of mounting conditions and performance of sandwich panels

VOLUNTARY MARKS

Efectis Certified is the Voluntary Mark of Efectis. Efectis Certified objectives are to maintain a high fire safety level in buildings or infrastructures in covering product and installation fire safety certification in order to ensure the required fire safety.

Efectis Certified for products

As the application of regulations and the fire resistance of construction elements are not always controlled, Efectis is able to check if the required fire safety level is reached.

Efectis Certified for installation

Our Voluntary Certification, Efectis Certified assess the knowledge and the skills of the companies in charge of the installation of the fire products including inspection on construction sites. The fire safety level of building is strongly dependent on the quality of installation. Efectis can qualify the products in laboratories and certify the companies that will install them.

ENVIRONMENTAL SUSTAINABILITY

The revision of the Construction Product Regulation will introduce a new requirement on Environmental Sustainability for CE marking. Accordingly, Efectis is setting up a new division to validate environmental declarations.

Training



If you work in the building, nuclear or rescue field, we can help you to further develop your skills in fire safety.

Efectis is delighted to share our knowledge and experience through a series of training sessions for those involved in construction, rescue and nuclear safety (project owners, main contractors, subcontractors, fire trainers, technical officers.)

The sessions will cover all construction and building materials that have an obligation to ensure fire performance (fire resistance & reaction to fire) and buildings required by regulation to include fire safety requirements. These courses also touch on the firefighter education and training (theory and practice).

VIEW ALL OUR COURSES HERE: www.effectis-academy.com

Fire and Explosion

FIRE AND EXPLOSION SAFETY IN NUCLEAR PLANT



FIRE AND EXPLOSION SAFETY SERVICES

Development of technical specifications

- AFCEN
- CEN
- EDF
- ISO

Qualification of product and system

- Fire testing
- Other testing
- Audits and inspection
- Modelling
- Certification



Engineering calculations

- Risk
- Modelling
- Structural response
- Effluents propagation

Expertise

- Aging
- Ad hoc evaluation
- On site evaluation
- Official assessment

Training

- AFCEN
- Engineering
- Fire products
- Firefighting
- Regulation

Fire and explosion resistance

Reaction to fire

Fixed fire fighting

Firefighters equipments

Detection and Fire management Systems

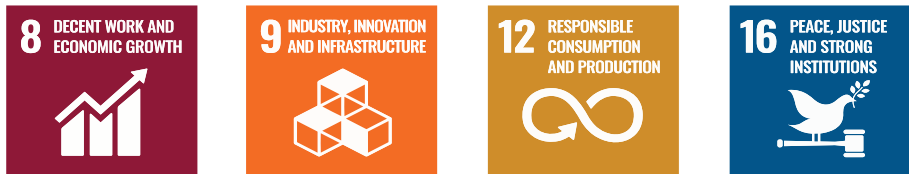
Batteries systems

Hydrogen appliances

Smoke and ventilation

Atex

ETHICS



We are committed to being a loyal, respectful and responsible player in the market.

Efectis implements and guarantees:

- **Business Integrity:** Adherence to standards of transparency, integrity and anti-corruption practices
- **Data protection:** Confidentiality in the processing of all stakeholders' data

SOCIAL & SECURITY



We are committed promoting the development, well-being and safety of our employees.

Efectis fosters and ensures:

- **Employee Well-being:** Employee benefits, respect for work-life balance, and flexibility at work, including remote working options
- **Workplace Safety:** Implementation of measures to ensure the safety of our employees and the promotion of a safety culture

ENVIRONMENT



We are committed to fighting climate change and respecting the environment.

Efectis focuses on:

- **Reducing Carbon Footprint:** Improving energy efficiency and decarbonising business travel
- **Sustainable Innovation:** Efectis positions itself as a key player through its R&I and expertise service

Efectis works on:

- ***ADEME-supported projects** on the massification of wood and bio-sourced materials in the construction sector
- **Reuse of materials** through the "Reuse Booster"

*ADEME : French Agency for Ecological Transition

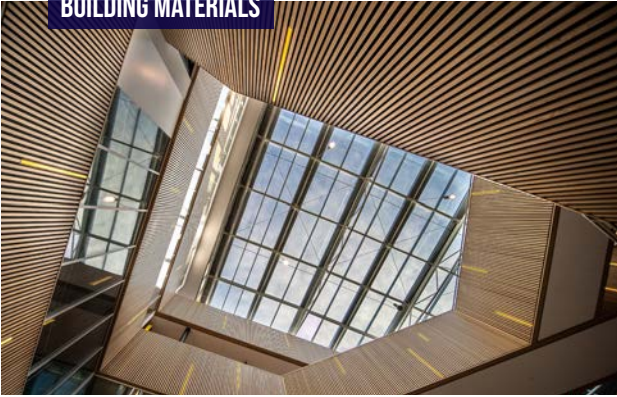
For more information, you can find our full ESG policy documents at [Efectis.com](https://www.effectis.com), under the "About" section. Or scan the qr-code.



Your project

OUR MARKETS

BUILDING MATERIALS



BUILDINGS



HIGH-RISE BUILDINGS



ENERGY TRANSITION



STORAGE AND WAREHOUSE



NUCLEAR AND POWER PLANTS



INFRASTRUCTURE



TRANSPORT, RAIL AND MARINE SAFETY





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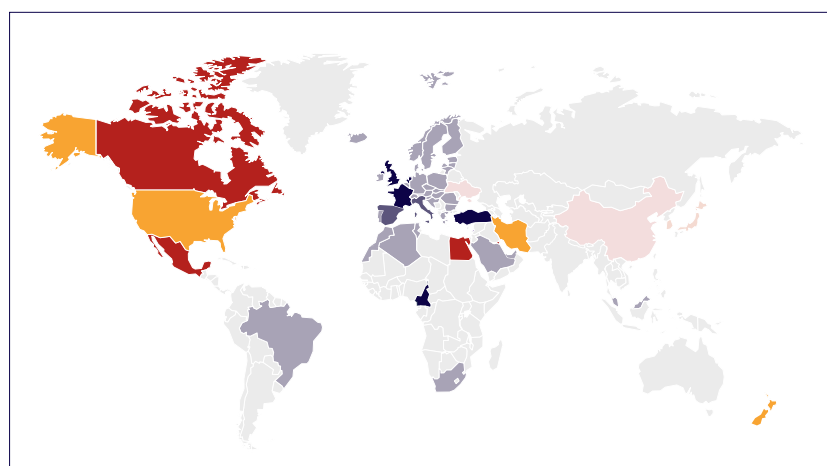
Laboratory

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EFFECTIS ALL OVER THE WORLD

Efectis has 22 offices and laboratories around the world recognised in 35 countries. The staff is highly qualified speaking various languages (English, French, Dutch, Turkish, Spanish, German, Italian, Arabic, Chinese, Farsi...).



- Efectis Laboratories and offices
- Efectis Offices
- Efectis recognitions
- Efectis recognitions in progress
- Efectis cooperation agreements
- Cooperation agreements in progress and/or access to a professional network