

Emergency Response



International experts in spill preparedness and response



Experience and expertise

For almost 40 years, we have been working as technical consultants from Brest or onsite for both major and minor spills, at sea and in rivers.

Our teams strive to efficiently respond to each request on a daily basis, keeping a firm focus on operational aspects. Our range of tools, from computer models to experimental devices, can be mobilised in an emergency.

Our multidisciplinary team is able to assess each situation from all angles and provide expertise ranging from risk assessment to impacts follow-up during post-spill phase.



Key figures

Assistance **24 hours a day, 7 days a week**

150 activations each year

Deployment across all **5** continents

9 duty engineers

1 single contact point for the European Mar-ICE network

Our scope



Spills or threats



Oil • Chemicals
Litter and microplastics



Sea • Shoreline • Watercourses • Ports
Industrial sites



France • Around the globe



Activating us

Are you in charge of spill response within a public body or private company and need advice?

We provide support for response by offering guidance on the response strategies, techniques and equipment to be implemented.



You can call our duty engineer

24/7

on +33 (0)2 98 33 10 10



3 levels of activation

Three activation levels according to the situation and your needs:

Level

1

The problem encountered is simple. Information will be provided on the characteristics of the product(s) involved, the possible risks for responders and the impact on the environment. Technical advice on response actions will also be issued.

Level

2

The problem encountered is complex. Following initial telephone conversations, our response centre is activated. At the request of the response managers, one or more technical advisers are sent on site as quickly as possible.

Level

3

The case involves major pollution. Our response centre is activated for several weeks or even months and the whole team is liable to be enlisted. Our technical advisers are present on site on a rota system to assist the authorities and response teams.



Remote assistance from our facilities

- Provision of **information** on the pollutant: identification, material safety data sheets (MSDS), characteristics, behaviour modelling, risks for human health and the environment.
- **Guidance** on the response strategies, techniques and equipment to be implemented.
- **Mobilisation** of specialised experimental and analytical tools to characterise pollutant and its behaviour and to determine the most efficient response equipment and products as well as to identify health and environmental risks for certain activities (fishing, tourism, etc.).
- **Drafting** of reports, mapping of the affected areas and management of information archiving.



Assistance in the field

Upon written request from the authorities, we can send one or more advisors on site to assist the operational command structure in:

- conducting surveys;
- contributing to incident management meetings;
- recommending actions to be taken;
- defining the resources required;
- organising clean-up sites;
- training personnel;
- monitoring clean-up and site restoration operations.



Funding our activation

Our activations are invoiced under pre-established assistance agreements or specific contracts. The mobilisation of the duty engineer without a pre-existing agreement is free for the first few hours. Thereafter, the service is invoiced. Under an assistance agreement, typically three full days are included in the annual package. The cost of field assignments is the responsibility of the contracting party.

More information

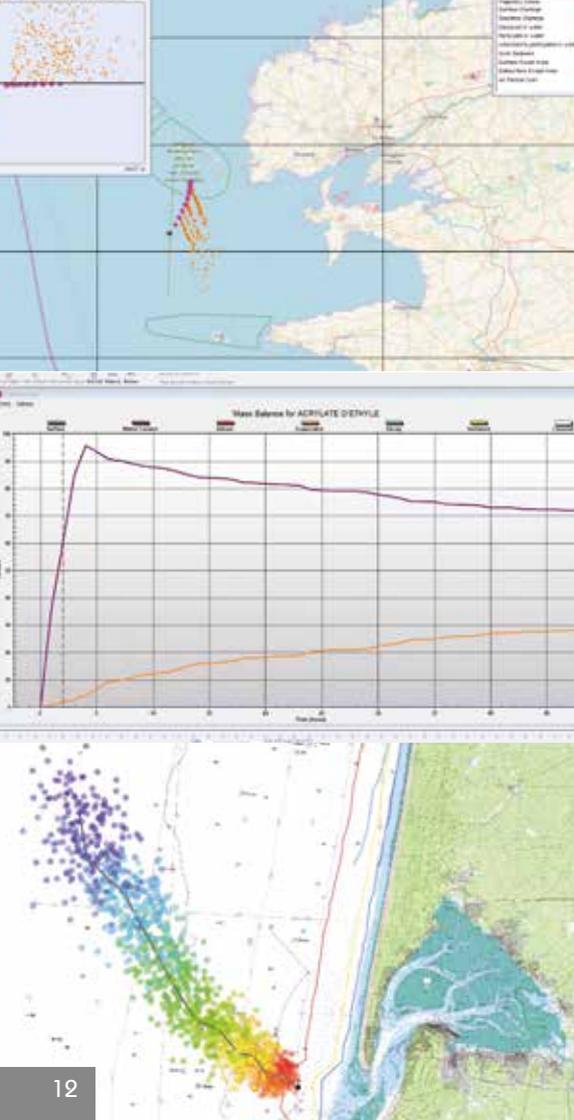
Want more information about establishing an agreement?

Please contact us:

Tel: + 33 (0)2 98 33 10 10

Email: contact@cedre.fr





Our tools

Our teams have designed and developed an array of innovative devices to study the short- and medium-term fate of pollutants spilled in water, as well as to assess the efficiency and impact of response techniques.

1 Modelling

Various forecast models are available at Cedre to predict the evolution of oil or HNS spills.

Cedre has tools to predict:

- the drift of oil slicks or floating objects: OILMAP and MOTHY (implemented by Météo-France)
- the physical and chemical evolution of an oil (evaporation, emulsification, viscosity, volume) according to the environmental conditions: OILMAP and ADIOS
- the dispersion in the atmosphere of a toxic cloud: ALOHA
- the fate of a chemical diffused throughout the water column, or even the quantity of pollutant floating at the surface and the quantity evaporated: CHEMMAP.

2 Operational mapping

Building on the experience of the *Prestige* and *Erika* spills, we have developed a secure, user-friendly tool, based on interactive mapping technologies: ARGEPOL.



3) Laboratory

Here at Cedre, we have state-of-the-art equipment to identify the origin of a spill, assess the contamination level in the environment, test response products and assess response techniques.

4) Flume tank

Our flume tank, or Polludrome, is able to recreate natural phenomena such as the wind, current and temperature in order to study the behaviour of pollutants in conditions close to those found in the natural environment.

5) Experimentation column

This novel tank is designed to study the behaviour of an oil or chemical as it rises or sinks in the water column.

6) Outdoor test tank

Real oil and chemicals can be released and equipment deployed in our outdoor test tank in order to perform trials or run practical training.

7) Beach and water body

The man-made beach and its water body allow full-scale simulation of oil pollution on various shore types during experiments and training courses.

8) Experimentation tunnel

The experimentation tunnel is used to study the effects of the exposure of aquatic organisms to different types of oil or chemicals while controlling the environmental parameters.



Our technical partners

To ensure we are able to provide a full response, we work with a network of experts including:

- the INERIS emergency response unit, CASU, in case of fire, a risk of explosion or gas-related risks
- the French Navy's Centre of Practical Expertise in Pollution Response (CEPPOL) for at-sea response techniques and equipment
- French Customs for aerial observation and remote sensing
- Ifremer in relation to impacts on the marine environment
- the French Navy LASEM laboratory in relation to the analysis and identification of pollutants
- the naval fire-fighters in relation for risk assessment on board
- Météo-france as concerns oil slick drift forecasting
- the French centre for study and expertise on risks, environment, mobility and layout (Cerema) for boom deployment plan calculation and characteristics of shoreline response equipment.
- etc.



Our accreditations

Accreditation under the French Code of the Environment

Cedre is accredited in accordance with article L. 211-5-1 of the French Code of the Environment by the Ministry of Ecology and is thus responsible for conducting missions of general interest providing expertise and support for the authorities at sea, in sea ports, on the shoreline, in lakes and in water-courses.

This accreditation gave rise to an order issued on 16th August 2012.

Civil protection accreditations

Cedre is accredited through the application of law 2004-811 of 13th August 2004 on the modernisation of civil protection and its decree of application 2006-237 of 27th February 2006.

An interdepartmental accreditation order issued on 09 July 2015 officially recognises Cedre's capacity to respond alongside the government services in the management of accidental water pollution in French waters.

It provides for Cedre's integration into the emergency system set up in the event of accidental pollution incidents at the request of the emergency operations manager and under the authority of the operations officer.

International recognition

In 2015, Cèdre received a Green Star Award in the "Response" category, rewarding its action following typhoon Haiyan in the Philippines in 2013 and the spill in the Bengal Delta in 2014.



Who we work with

Our members



Our clients



Contact

Contact

Interested in setting up an assistance agreement with Cedre?

Please get in touch!

Cedre
715, rue Alain Colas
CS 41836
29218 BREST CEDEX 2 - FRANCE
Tel: + 33 (0)2 98 33 10 10
Fax: + 33 (0)2 98 44 91 38
Email: contact@cedre.fr

www.cedre.fr

Cedre

INFO

Cedre
715, rue Alain Colas
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contact@cedre.fr



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our duty engineer

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