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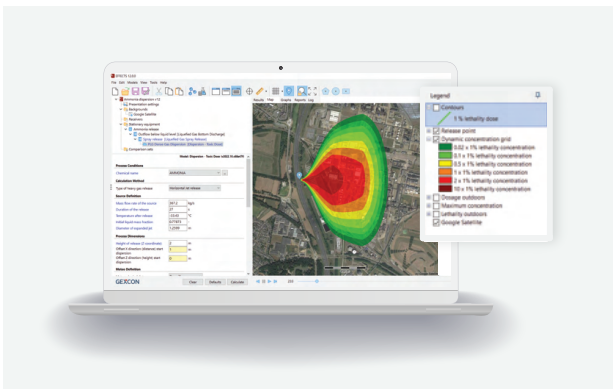

EFFECTS & RISKCURVES software v12

## With new functionalities to support safe and regulatory compliant energy transition initiatives

The latest EFFECTS and RISKCURVES v12 software release includes new and extended functionalities to better support the energy transition and the simulation of new energy carriers.

Extended dispersion model with automatic behaviour detection

Ability to simulate all possible dispersion behaviour, including:

- Dense gas dispersions (e.g., cryogenic LNG releases, liquefied ammonia releases, LPG releases).
- Neutral gas dispersions (e.g., for chemicals with similar density to air).
- Lighter-than-air gas dispersions (e.g., hydrogen and ammonia).
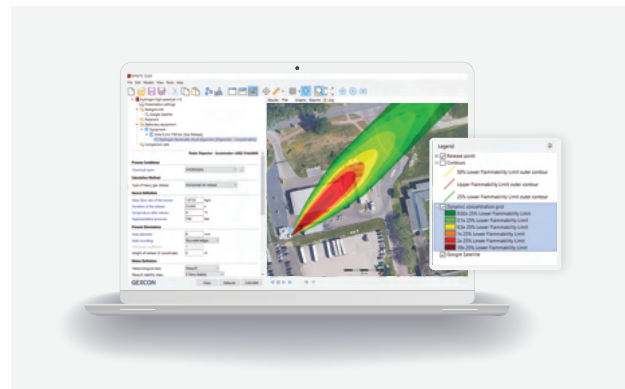
Improved high-speed jet releases and ground effects

- More accurate simulation of high-speed jet releases, to better simulate highly pressurised hydrogen releases (commonly stored and transported at very high pressures – up to 900 bar).
- Improved modelling to account for plume reflection against the ground and enhanced turbulence, e.g., simulating natural gas releases.

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Improved accuracy

The fire and dispersion models account for hydrogen's unique properties and show excellent agreement with experimental data.
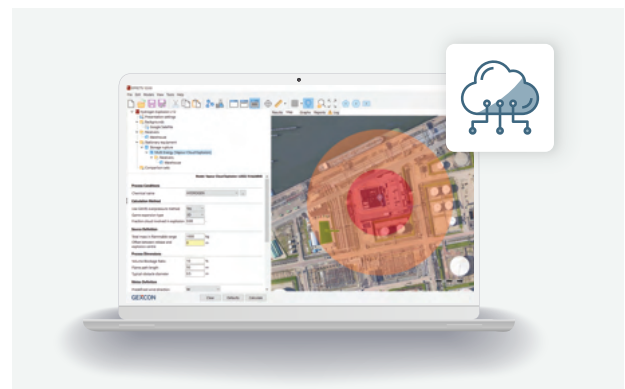

Streamlined consequence & risk analysis

Use the new energy carriers' consequence and lethality footprints from various consequence modelling tools available in the market to calculate risk in RISKCURVES.
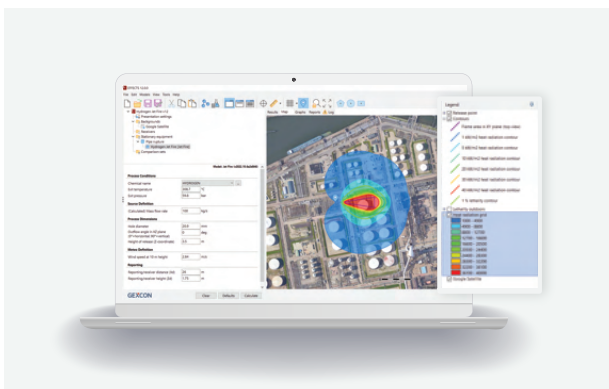
More intuitive user interface

More modern and intuitive look with new features to make the software more user-friendly.

New cloud licensing

Flexibility of a network license without the need for setting up your own license server.

Would you like to see the new features in action?

Watch a webinar where you will get an overview of how safety professionals can use the upcoming EFFECTS and RISKCURVES v12 to assess the accidental release of new energy carriers.
Please scan the QR code to request the webinar.

For more information and product enquiries, please email effects@gexcon.com