

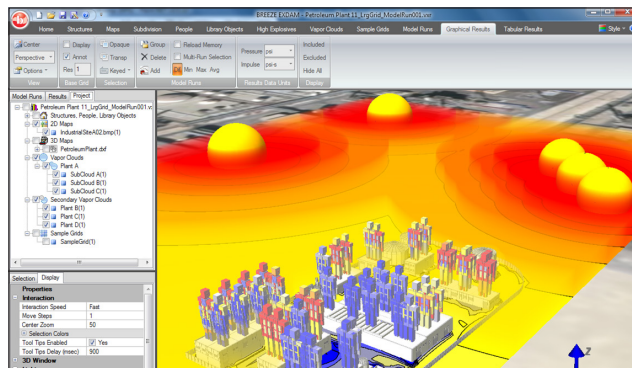
buoyant gases; 4 fire models to predict thermal radiation fluxes and temperature rise; and 4 vapor cloud explosion models to predict blast force overpressures.

LFG Fire/Risk - predicts LNG and LFG vaporization rates and downwind vapor concentrations to evaluate fire/explosion risk, and predicts thermal radiation from LNG and LFG pool and jet fires.

BREEZE Software for Explosion Safety Assessment

ExDAM® - a explosion consequence modeling suite that predicts damage to structures and personnel injury resulting from primary and secondary high explosive and vapor cloud explosions. ExDAM includes shielding effects of buildings and blast walls as well as these powerful modeling applications:

- **HExDAM®** - analyzes the effects of an explosion of high explosive material
- **VExDAM®** - analyzes the effects of a vapor cloud explosion
- **HEXFRAG** - computes secondary fragmentation from frangible objects during an explosion
- **3D Extend** - accelerates the structure development process by importing 2D and 3D data files (AutoCAD, SolidWorks, MicroStation, Sketchup, etc.) directly into BREEZE ExDAM



The state-of-the-art 3D graphical user interface of BREEZE ExDAM is easy to use and visually stunning.

VASDIP - computes vulnerability parameters of structures and human body components resulting from explosion impacts. These parameters can be used in BREEZE ExDAM HExDAM and VExDAM, making it an excellent companion product to these modules.

High Speed Modeling Services

AERMOD Parallel - a parallel processing version of AERMOD that reduce runtimes through the use of a multi-core processor or distributed computer network (cluster).

Remote Modeling Service - a Web-enabled application that executes AERMOD model runs on a massively parallel computer cluster to slash runtimes.

Model-Ready Meteorological and Geophysical Data

Our team of meteorologists and environmental engineers are knowledgeable about sources for data worldwide, common challenges and how to address them, and the proper processing techniques and regulatory requirements for model input.

BREEZE can provide model-ready meteorological data for AERMOD, CALPUFF, EDMS, and ISC, and has extensive experience processing meteorological data using MM5 and WRF, which enables our meteorologists to generate model-ready meteorological data for remote locations that lack access to historical hourly observations. BREEZE also provides model-ready topographic data, including USGS and global DEM data and National Elevation Dataset (NED) GeoTIFF files.

Custom EHS Software Solutions

In addition to commercial dispersion modeling software, BREEZE provides Windows®-based software solutions to support clients' environmental needs. By integrating air quality and computer science expertise and experience, our team is uniquely able to efficiently develop high-quality software applications in support of air quality and environmental needs.

Advanced EHS Impact Modeling Services

BREEZE is proficient in conducting various environmental, health, and safety modeling analyses. Our expertise in modeling is marked by the superior technical proficiency that comes from developing the modeling applications used by thousands of EHS professionals. To meet our clients' strategic objectives, BREEZE performs dispersion, fire and explosion modeling analyses using models such as AERMOD, CALPUFF, DEGADIS, SLAB, AFTOX, INPUFF, ExDAM, CAMx and CMAQ.

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