

Methane Control and Prediction software predicts dynamic elastic properties of coal-measure rocks, predicts ventilation emissions from longwall mines, determines the optimal degasification design for a longwall panel, and assesses the production performance of gob gas ventholes.

MCP - Methane Control and Prediction

See also: [NIOSH mining products](#)

Type: Analysis Software
Version: 1.2 (01-01-2010)
Operating System: Windows® (XP, Vista, 7)
Audience: Mining engineers, mine ventilation engineers or professionals, CBM/CMM/VAM producers and project developers, natural gas engineers
Installation Notes: The download file is a self-extracting executable which will automatically run a setup program. The installation computer should have Microsoft Access® 2003 or later installed.

Download

EXE
3.48 MB



This software suite addresses some of the methane and methane control issues in longwall coal mines. The suite has four modules that:

- a. predict the dynamic elastic properties of coal-measure rocks
- b. predict ventilation emissions from longwall mines
- c. determine the type of degasification system that needs to be utilized for given situations, and
- d. assess the production performance of gob gas ventholes (GGV) that are used to extract methane from longwall gobs

The applications of these modules, separately or in combination, for methane capture- and control-related problems should help improve safety in mines and guide effective ventilation practices. The modules can also help in identifying opportunities for capturing and utilizing methane, which is an important energy source and a potent greenhouse gas.

The software suite uses the Microsoft Access® shell environment and dynamic link libraries generated with C++ as the main functional tools. The user's manual discusses the technical details of the development of these modules and their possible applications.

[Methane Control Toolkit For Longwall Mines User Manual](#) (PDF, 2.14 MB, 2010-01)