

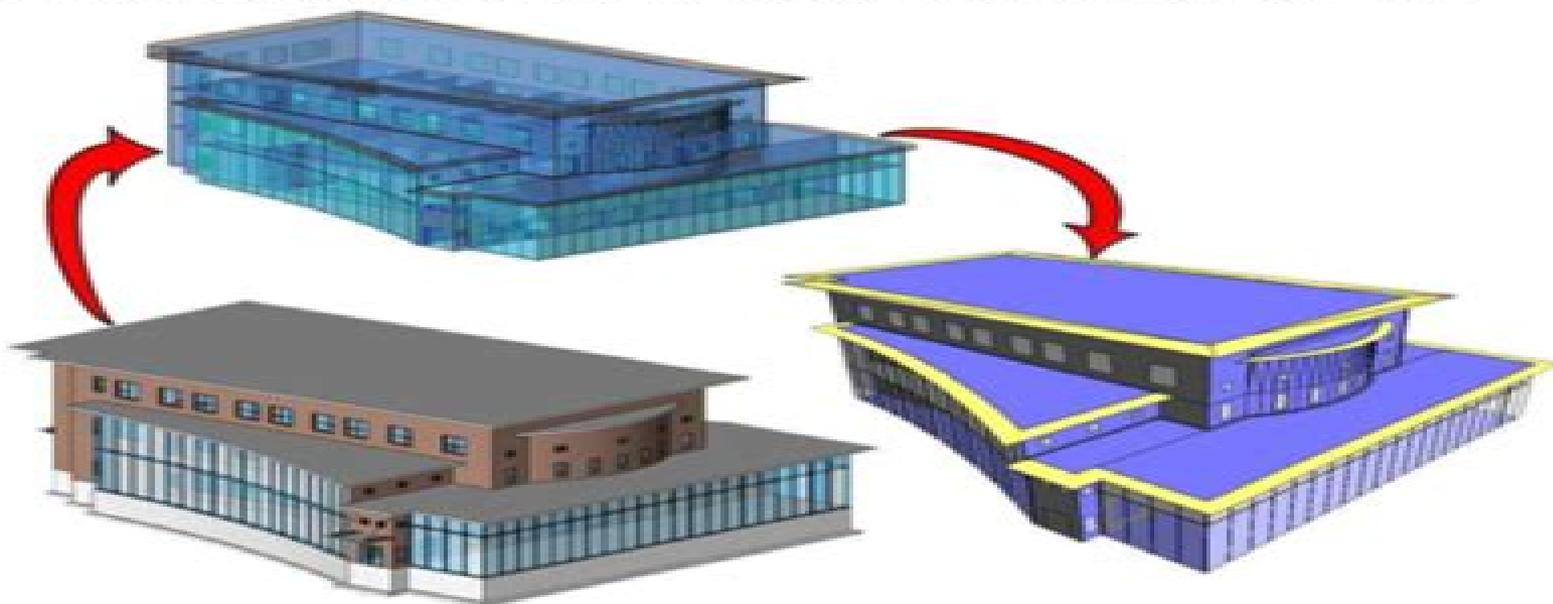
Building Performance Analysis Using Revit

Powerful new functionality in Revit allows for faster, more accurate Building Performance Analysis

One of the most time-consuming aspects of any Building Performance Analysis (BPA) is the setup required to carry out the analysis. This often is a process of re-creating the building geometry as well as setting the conditions necessary to properly represent the environment both inside and outside of the building. With the 2008 release of the Revit family of products, a great deal of the front end effort necessary to carry out BPA has been removed with the implementation of robust gbXML export as well as a direct link to the IES <Virtual Environment> (<VE>) analysis platform within Revit MEP.

The <Virtual Environment> is a unique software system of integrated Building Performance Analysis tools developed by Integrated Environmental Solutions. The tools available include thermal simulation with a proven capability for natural ventilation, displacement ventilation, chilled beams and ventilated facades studies, Energy analyses for LEED accreditation, daylighting (for LEED) and electric lighting, solar analyses, internal and external CFD airflow studies, occupant evacuation and many more.

In order to take advantage of this advanced workflow between the two platforms, the Revit Building Information Model (BIM) must be properly prepared for analysis. Like any type of analysis, the usefulness and accuracy of the results depend greatly on the quality of the inputs. This involves first an understanding of the conversion of a BIM into a Building Performance Model (BPM), and then an understanding of how that process impacts your Revit BIM. This paper's intent is to assist you in succeeding to leverage your BIM to carry out Building Performance Analysis.



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