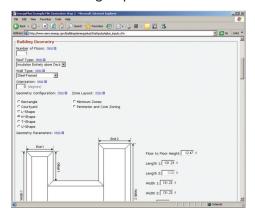# *Energy**Plus** File Generator*

The EnergyPlus Example File Generator is a free, Web-based service which makes it easier to use EnergyPlus, DOE's building energy analysis and thermal load simulation program. The Example File Generator's Web-based form allows a user to enter general information about a building. The application then automatically creates a complete EnergyPlus input file, runs an annual simulation, and emails the EnergyPlus input, output, DXF and other files along with an annual summary of the energy results. Because EnergyPlus input files contain detailed information, the building description has been reduced to a set of simple, high-level parameters. The remaining detail is generated from defaults, building energy standards, and computer routines that automatically generate a complete geometry description. This beta application is a spin-off of commercial building research and is therefore currently only available for commercial buildings.

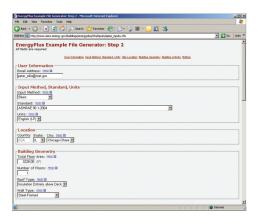## To use the Example File Generator, follow these steps:

1. Determine how to enter information about the building by selecting input method, standard, and units.
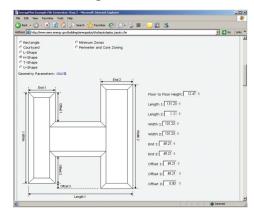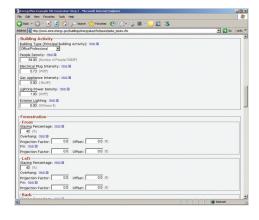
2. Enter building location and floor area.

3. Select building shape.

4. Enter building dimensions.

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5. Enter information about building activity.

6. Enter information about fenestration.

7. Enter information about the roof, skylights, and daylighting.

8. Select HVAC system type and components efficiency.

9. Enter information about service water heating and photovoltaics.

10. The file generator form is now complete, and results will be emailed to the address indicated.

Thank you for using EnergyPlus. Your results are attached to this email. Below is the description of each file attached.

    .xml : High level parameter file used to generate EnergyPlus input file.
    .idf : EnergyPlus input file.
    .htm : Document with detailed results of simulation.
    .err : Errors/Warnings encountered while running simulation.
    .skp : SketchUp rendering of building.
    .dxf : Rendering of building.
    .xls : Excel spreadsheet with building description and end use results.

If you have any questions, please contact:

EnergyPlus Example File Generator Team
ewi_support@nrel.gov

End Uses

	Electricity (GJ)	Natural Gas (GJ)
Heating	0.00	463.94
Cooling	215.85	0.00
Interior Lighting	230.09	0.00
Exterior Lighting	0.00	0.00
Interior Equipment	451.32	0.00
Exterior Equipment	0.00	0.00
Fans	206.12	0.00
Pumps	0.00	0.00
Heat Rejection	0.00	0.00
Humidification	0.00	0.00
Heat Recovery	0.00	0.00
Water Systems	0.00	0.00
Refrigeration	0.00	0.00
Generators	0.00	0.00
Total End Uses	1103.37	463.94

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