***Create DOE Prototype Building***

***Function***

Generates the OpenStudio Model equivalent of the EnergyPlus Commercial Reference Buildings IDFs. Thus far 3 building types are included, however, by the end of summer calibrated versions of all 16 building types are supposed to be complete. Unlike all other measures in this workflow, there is no OldModel.osm read into this measure, as the measure creates a brand new OSM from scratch.

***Inputs***

|  |  |
| --- | --- |
| **Building Type** | **Building Vintage** |
| Small Office | Pre 1980 |
| Secondary School | Post 1980 |
| Small Hotel | New Construction |
|  |  |

|  |  |
| --- | --- |
| ***Nearest Weather Station*** | |
| Albany-Dougherty County | Fort Benning-Lawson Field |
| Alma-Bacon County | Fulton County |
| Athens-Ben Epps | Macon-Middle Georgia Rgnl |
| Athens | Marietta-Dobbins |
| Atlanta-Hartsfield-Jackson Intl | Rome-Richard B Russell |
| Augusta-Bush-Field | Savannah-Hunter |
| Brunswick-Golden Isles | Savannah Intl |
| Brunswick-Malcolm McKinnon | Valdosta-Moody |
| Columbus Metro | Valdosta Rgnl |
| Dekalb Peachtree | Warner Robins |

***Data Preprocessing***

No preprocessing is required for this measure as long as the names for the input options used in the GUI have no white spaces before or after the characters. If this is done, then the inputs can be used to directly modify the Measure Test file as shown below.

***Editing Measure Test File***

Line 27: gui\_selection\_building\_type = "Small Office"

Line 28: gui\_selection\_weather = "Valdosta-Moody"

Line 29: gui\_selection\_vintage = "Pre 1980"

***Source***

This measure was taken from the NREL GitHub website: <https://github.com/NREL/OpenStudio-Prototype-Buildings/releases> and modified by David Pudleiner at ICFI