

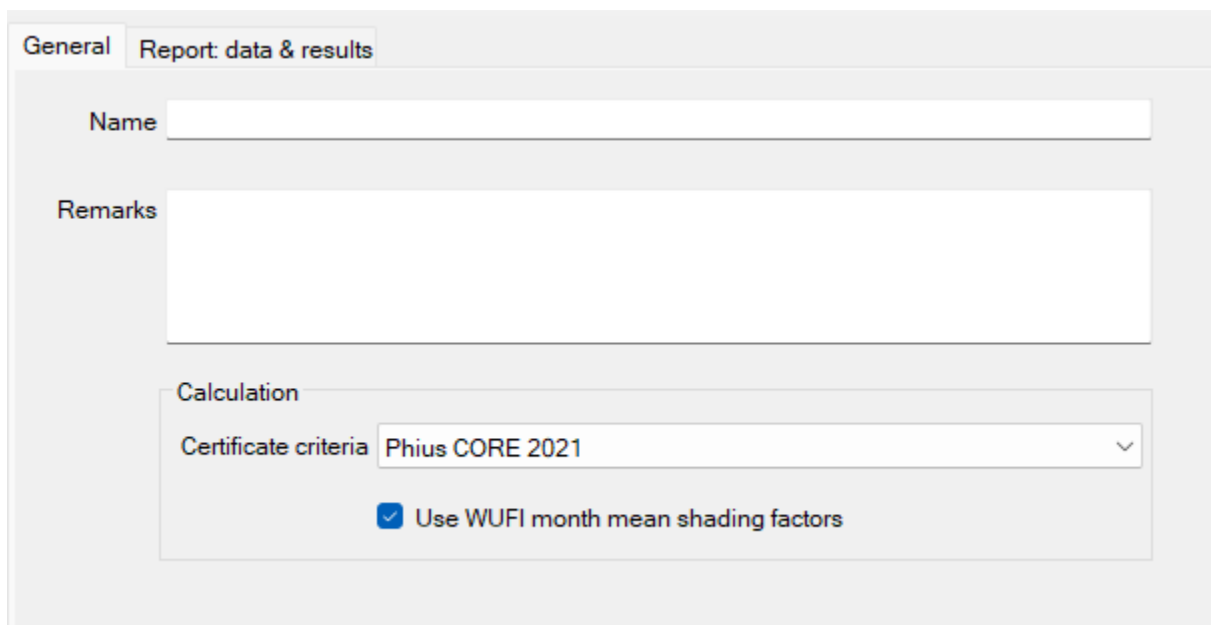
## New Modeling Protocol for Phius CORE and Phius ZERO certifications

In 2025, a new version of WUFI Passive will be released that includes all Phius CORE and Phius Zero updates. Until then, follow instructions in this document to model your project under either path.

Accepted WUFI Passive Versions: v3.5.0.1 and later

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**0. Case 1 > Certificate Criteria:** Use Phius CORE 2021 or Phius ZERO 2021 until the 2024 modes are available.



The screenshot shows a software interface with two tabs: 'General' and 'Report: data & results'. The 'General' tab is active. It contains a 'Name' text input field, a 'Remarks' text area, and a 'Calculation' section. The 'Calculation' section has a 'Certificate criteria' dropdown menu set to 'Phius CORE 2021' and a checked checkbox labeled 'Use WUFI month mean shading factors'.

**1. Localization/Climate> Source Energy/CO2 Factor> Selection:** Using the dropdown menu, select 'User defined'

Localization Climate **Source energy/CO2-Factor**

Selection

Oil		
Natural Gas		
LPG		
Hard Coal		
Wood		
Electricity Mix		
Electricity from photovoltaics		
Hard Coal CGS 70% CHP		
Hard Coal CGS 35% CHP		
Hard Coal HS 0% CHP		
Gas CGS 70% CHP		
Gas CGS 35% CHP		
Gas HS 0% CHP		
Oil CGS 70% CHP		
Oil CGS 35% CHP		
Oil HS 0% CHP		

**2. Localization/Climate> Source Energy/CO2 Factor:** Manually input the following values into the blank cells. (They match the US defaults except for the Source Energy Factor for Electricity Mix which has been updated to 2.0 for Phius 2024 projects in the United States.

Localization Climate Source energy/CO2-Factor		
Selection <input type="text" value="User defined"/>		
Name	Source energy factor [Btu/Btu]	CO2 emission factor [g/kBtu]
Oil	1.1	90.86
Natural Gas	1.1	73.28
LPG	1.1	79.14
Hard Coal	1.1	128.96
Wood	0.2	14.66
Electricity Mix	2.0	199.31
Electricity from photovoltaics	0.7	73.28
Hard Coal CGS 70% CHP	0.8	70.34
Hard Coal CGS 35% CHP	1.1	93.79
Hard Coal HS 0% CHP	1.5	120.17
Gas CGS 70% CHP	0.7	-20.52
Gas CGS 35% CHP	1.1	38.1
Gas HS 0% CHP	1.5	93.79
Oil CGS 70% CHP	0.8	29.31
Oil CGS 35% CHP	1.1	73.28
Oil HS 0% CHP	1.5	120.17

**3. Internal Loads/Occupancy:** Please note that the energy star mean values have also been updated. If using Energy Star means values as placeholders for pre-certification, please refer to the **Phius Certification Guidebook Section 1.4.3.6: Devices / Appliances** for appropriate values.