



Instructions for AccuRate Sustainability V2.3.3.13 SP4

August 2018

Since the release of AccuRate Sustainability v2.3.3.13 SP3 in November 2015, there have been several bugs identified in the user interface (UI) either by users, by the distributor or software developer. Some of the bugs can result in the crash of AccuRate. In order to resolve these issues, Service Pack 4 of AccuRate Sustainability v2.3.3.13, named as **AccuRate Sustainability v2.3.3.13 SP4**, was developed. AccuRate Sustainability v 2.3.3.13 SP4 has also implemented several UI improvements and upgrades. This document provides instructions on the improvements and upgrades in AccuRate Sustainability v2.3.3.13 SP4.

Thank you very much for helping to make the improvements of the AccuRate software possible.

If there is any inquiry, bugs or comments about the software and/or the HStar Web Portal, please contact the AccuRate support team at

queries.hstar.accurate@csiro.au

or

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IMPORTANT NOTES

- *AccuRate Sustainability v2.3.3.13 SP4 operates together with the HStar web portal for generating assessment certificates. **It should be noted that the HSTAR web portal charges a certificate fee based on the dwelling address (including the street address, suburb, postcode and state). Any difference in the dwelling address is considered to be a different dwelling and may induce a certificate fee charge. The user should check the dwelling address carefully before submitting to the HStar web portal. Two dwelling addresses are considered to be identical if the only differences between the two are the lower and upper cases of the letters.***
- *Customised window libraries are currently supplied by Australian Fenestration Rating Council (AFRC). In order to use customised window libraries, users need to make sure the two latest version files (GlzLibrary.WIN.VER and GlzLibrary.bwg.VER) in the /lib/windows directory. Users can download the latest GlzLibrary.WIN.VER and GlzLibrary.bwg.VER from AFRC web portal;*
- *Similarly, customised roof window libraries are currently supplied by AFRC. In order to use customised roof window libraries, users need to make sure the two latest version files (GlzLibrary.RWI.VER and GlzLibrary.brg.VER) in the /lib/windows directory. You can download the latest GlzLibrary.RWI.VER and GlzLibrary.brg.VER from AFRC web portal;*
- *In order to provide better support to users, AccuRate Sustainability v2.3.3.13 SP4 collects the information about the number of Chenath engine runs.*

SUMMARY OF BUG FIXES, IMPROVEMENTS AND UPDATES

Bug fixes, improvements and updates in AccuRate Sustainability v 2.3.3.13 SP4 are summarized below. More detailed descriptions of the improvements and updates can be found in next section.

1. **Improvement:** AccuRate Sustainability v 2.3.3.13 SP4 has implemented an Energy Chart page for displaying the percentage of heating, cooling and total energy requirement for each zone in the dwelling. This is to facilitate the design optimisation process.
2. **Improvement:** Window & roof window System, Glass & Frame U-values display has changed to one decimal place. This improvement was requested by the Australian Fenestration Rating Council (AFRC). This improvement only affects display. It does not affect Chenath engine simulation and star rating.
3. **Improvement:** Implemented delayed submission of zip files to the HStar portal. With AccuRate Sustainability v2.3.3.13 SP4, users can run the simulations first and submit the zip files to the HStar portal later. This is convenient for users who may have no internet access at the time of assessment or who wants to submit a number of assessments such as apartment to the HStar portal at the same time.
4. **Improvement:** In AccuRate Sustainability V2.3.3.13SP4, users can enter any insulation level from R0 – R5 for slab edge insulation.
5. **Improvement:** In order to provide better support to users, AccuRate Sustainability v2.3.3.13 SP4 collects the information about the number of Chenath engine runs.
6. **Update:** In AccuRate Sustainability V2.3.3.13SP4, a number of postcode climate zone mappings have been updated based on the instructions from NatHERS administrator.
7. **Bug fix:** The engine crashes in AccuRate Sustainability V2.3.3.13SP3 due to a truncate issue when the internal wall opening size is large which causes the opening height to be larger than the zone ceiling height. This bug is now fixed.
8. **Bug fix:** Glazing construction colour was being over-written when window libraries were updated in AccuRate Sustainability V2.3.3.13SP3. This bug is now fixed.
9. **Bug fix:** Insect screens on external walls in new buildings are not automatically selected by switching AccuRate from non-rating to rating mode. This bug is now fixed.
10. **Bug fix:** There was a bug in in AccuRate Sustainability when roof window opening type written to the scratch file causes inaccuracy in the simulation. This bug fix can affect star rating slightly when roof window(s) are used in the design. This bug is now fixed.
11. **Bug fix:** The roof window area was not deducted from the roof area in AccuRate Sustainability v2.3.3.13 SP3 when writing to the scratch file which causes inaccuracy in the simulation. This bug fix can affect star rating slightly when roof window(s) are used in the design. This bug is now fixed.

DETAILS OF IMPROVEMENTS AND UPDATES

1. The Energy Chart Page

To facilitate the design optimisation process, AccuRate Sustainability v2.3.3.13 SP4 has an Energy Chart page for displaying the percentage of heating, cooling and total energy requirement for each zone in the dwelling. As shown in Figure 1, after the Chenath engine simulation run, the Energy Chart page will appear. Users can select to show the percentage of heating, cooling or total energy requirement.

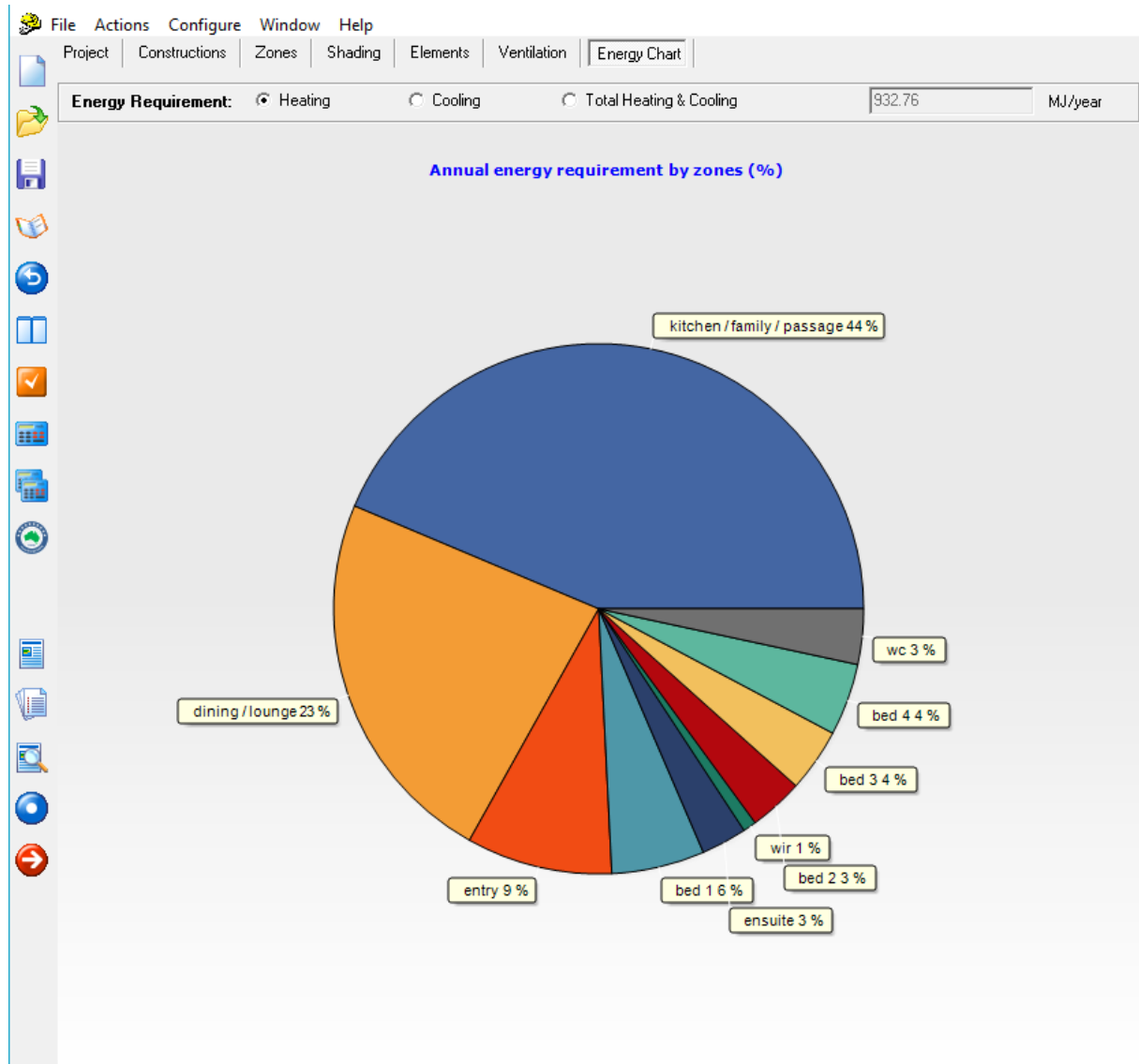


Figure 1 The Energy Chart page for displaying the percentage of heating, cooling and total energy requirement for each zone in the dwelling

2. Delayed Submission of zip files to HStar Portal

With AccuRate Sustainability v2.3.3.13 SP4, users can run the simulations first and submit the zip files to HStar portal later. This is convenient for users who may have no internet access at the time of assessment or who wants to submit a number of assessments such as apartment to the HStar portal at the same time. Users can select this facility in Configure | AccuRate Defaults | AccuRate Defaults as shown in Figure 2.

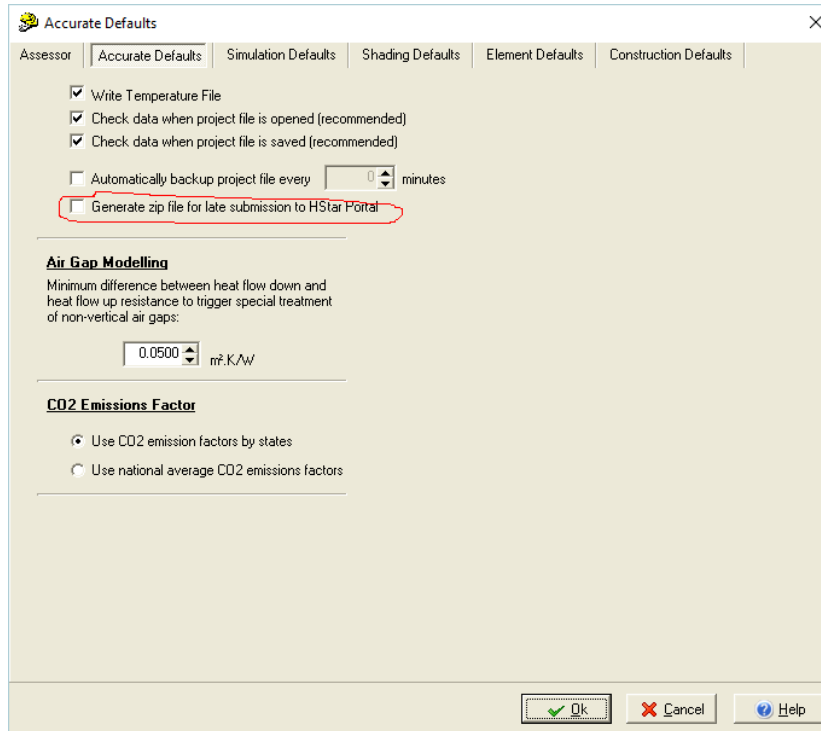


Figure 2 Generate zip file for late submission to HStar Portal

3. Selecting slab edge insulation

In AccuRate Sustainability V2.3.3.13SP3, users can select slab edge insulation from R0.5, R1.0 and R1.5. In AccuRate Sustainability V2.3.3.13SP4, users can select and enter any insulation level from R0 – R5 as shown in Figure 3.

Common Properties of Selected Floors

Construction: F1b timber

Area: 52.43 m²

Under the Floor: Ground

Edge Insulation: 2.7 (R)

Opening Area: 0.00 m² Controlled Permanent

Apply Cancel Help

Figure 3 Select/Enter slab edge insulation in AccuRate Sustainability V2.3.3.13 SP4

4. Update on Postcode Climate Zone Mappings

In AccuRate Sustainability V2.3.3.13SP4, a number of postcode climate zone mappings have been updated based on the instructions from NatHERS administrator. The changes are listed below.

Postcodes	New CZ No1	New CZ No2	New CZ No3		Existing CZ No1	Existing CZ No2	Existing CZ No3
6010	13	52			52		
6023	52	13			13	52	
6027	13	52			52		
6032	13				52	13	
6033	13				52	13	
6036	52				13	52	
6037	13	52			52		
6038	52				13	52	
6056	13	47			13		
6077	13			New			
6078	13			New			
6079	13			New			
6084	13	47			47		
6109	13	47			13		
6110	13	47			13		
6111	13	47			13		
6112	13	47			47		
6122	13	47			13		
6123	13	47			13		
6124	47				13	54	
6125	13	47			13		
6126	13	47			13		
6164	13	54			13		
6170	13	54			54	52	13
6176	13	54			54	13	
6180	54			New			
6181	13			New			
6182	13			New			
6207	13	47			47	54	13
6208	13	47	54		54	13	
6209	54			New			
6211	54			New			
6214	54	47			54	13	
6215	47	54			47	54	13
6218	47	54			47	13	
6221	54	47			13	47	
6223	47	54			13	47	
6224	47	54			47	13	
6225	47	58			58	49	13
6226	47	54			47	13	
6227	47	54			47	13	
6228	54	47			54	13	
6236	54	58			58	54	47
6237	54	57			58	54	47
6239	57	58			58	13	
6251	58	57			58	13	57
6260	58				58	57	
6271	54	57			54	58	13
6275	57				57	58	
6280	54				57	58	13
6281	54				58	54	13
6282	54				58	54	
6284	54	57			58		
6285	54				58	57	
6286	54				58		
6288	54	57			58		
6290	54				58		
6302	44	47			44		
6390	49	47	57		49		
6566	44	47			44		
6567	47				44		