

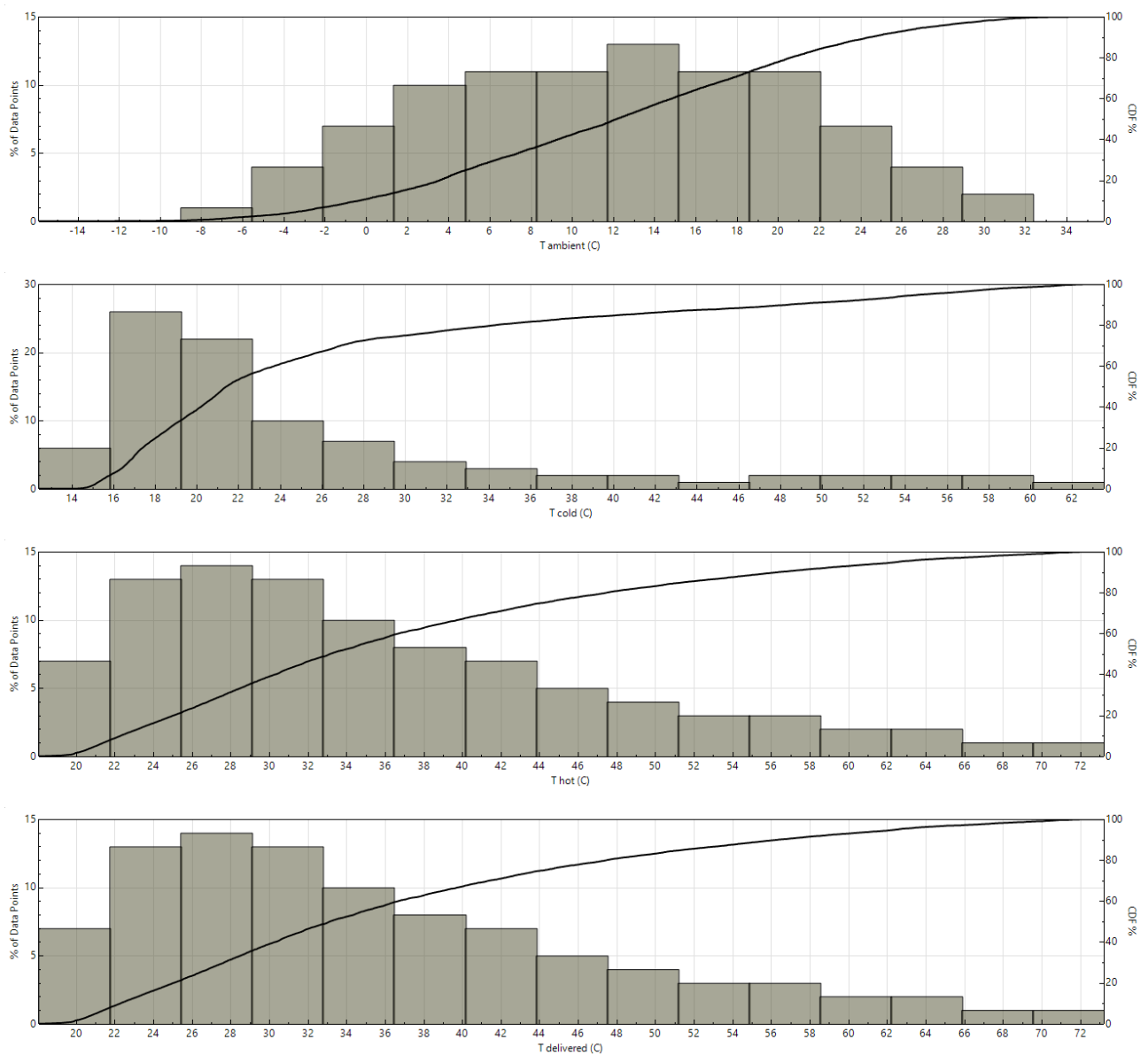
PAPER TITLE: **SIMULATION BASED SOLAR WATER HEATING SYSTEM
OPERATION IN RESIDENTIAL ENVIRONMENT**

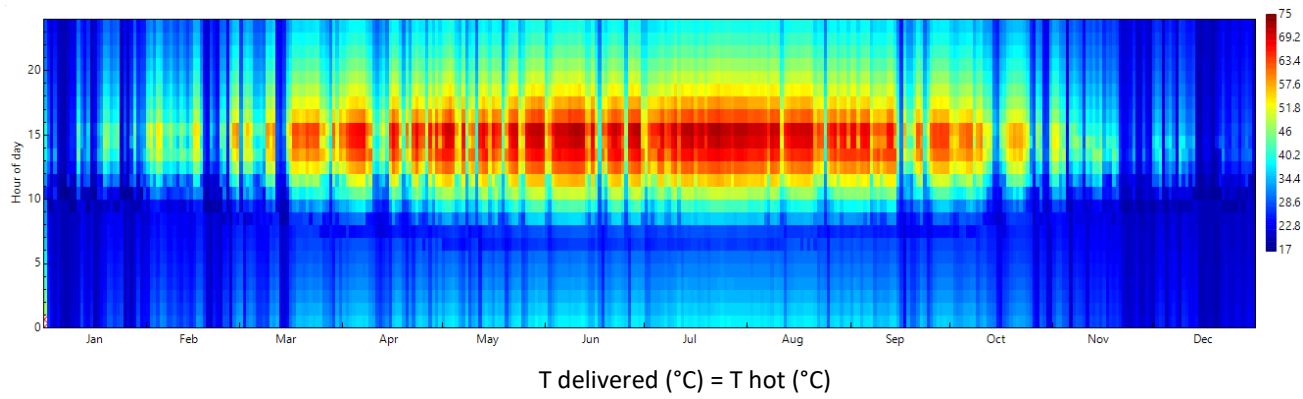
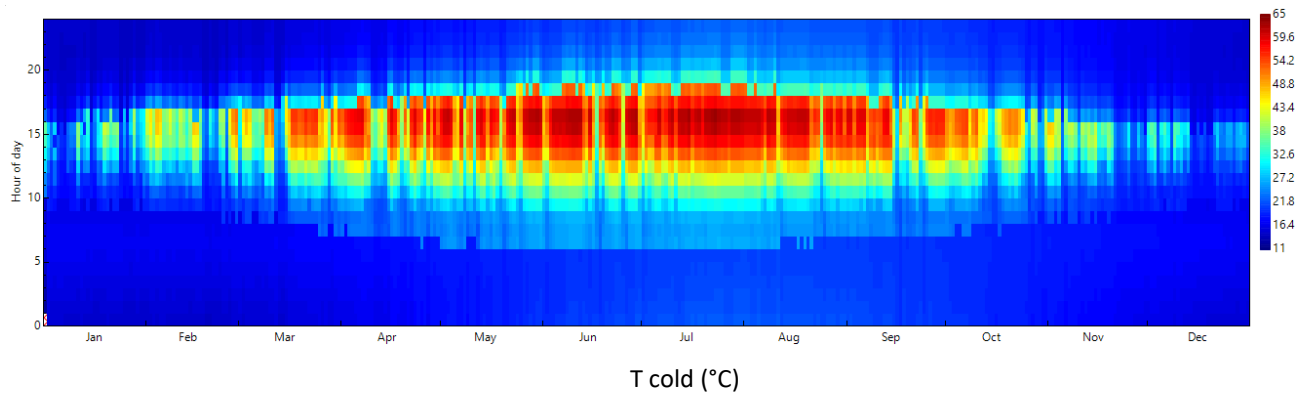
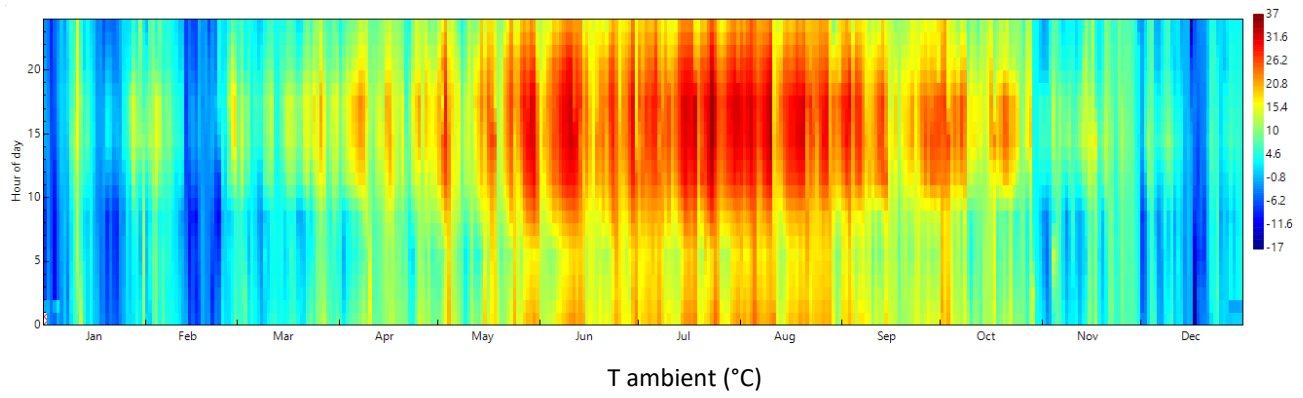
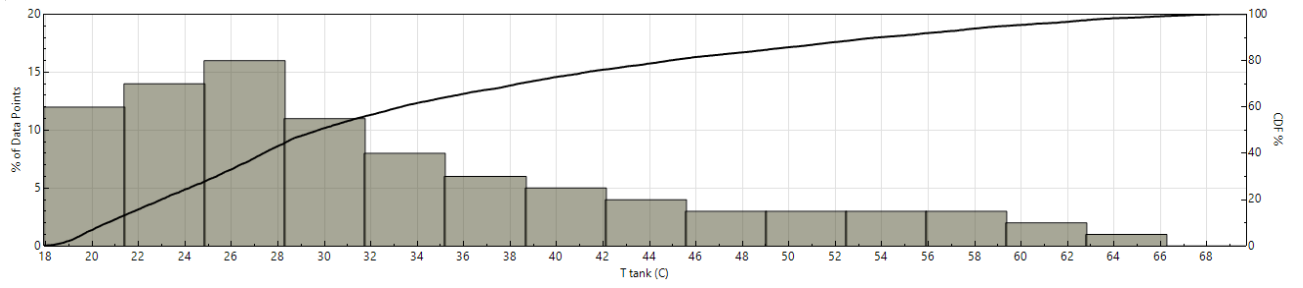
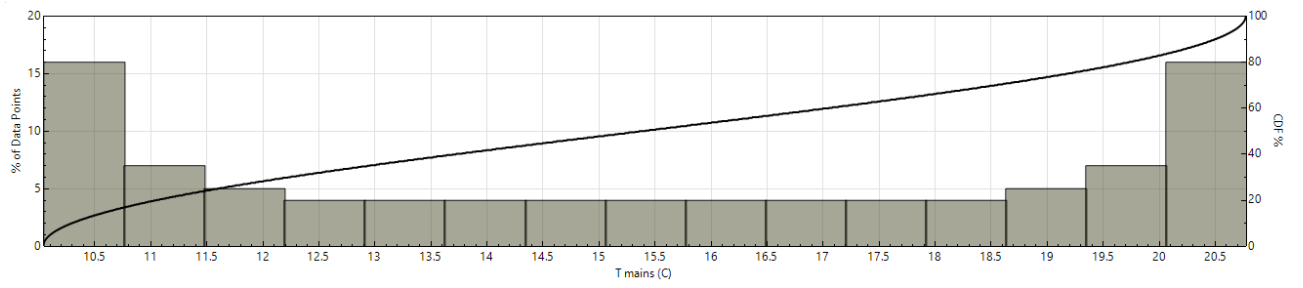
AUTHORS: *To be added upon potential acceptance of the manuscript*

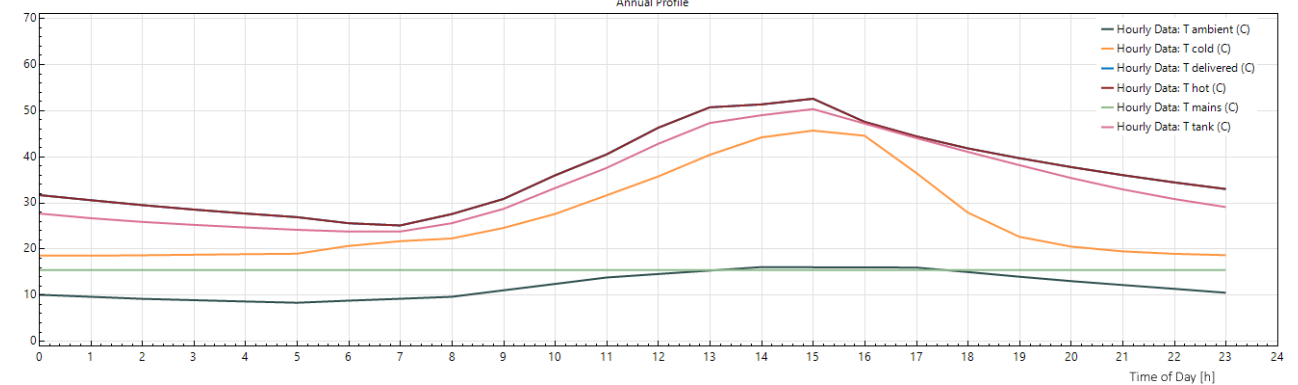
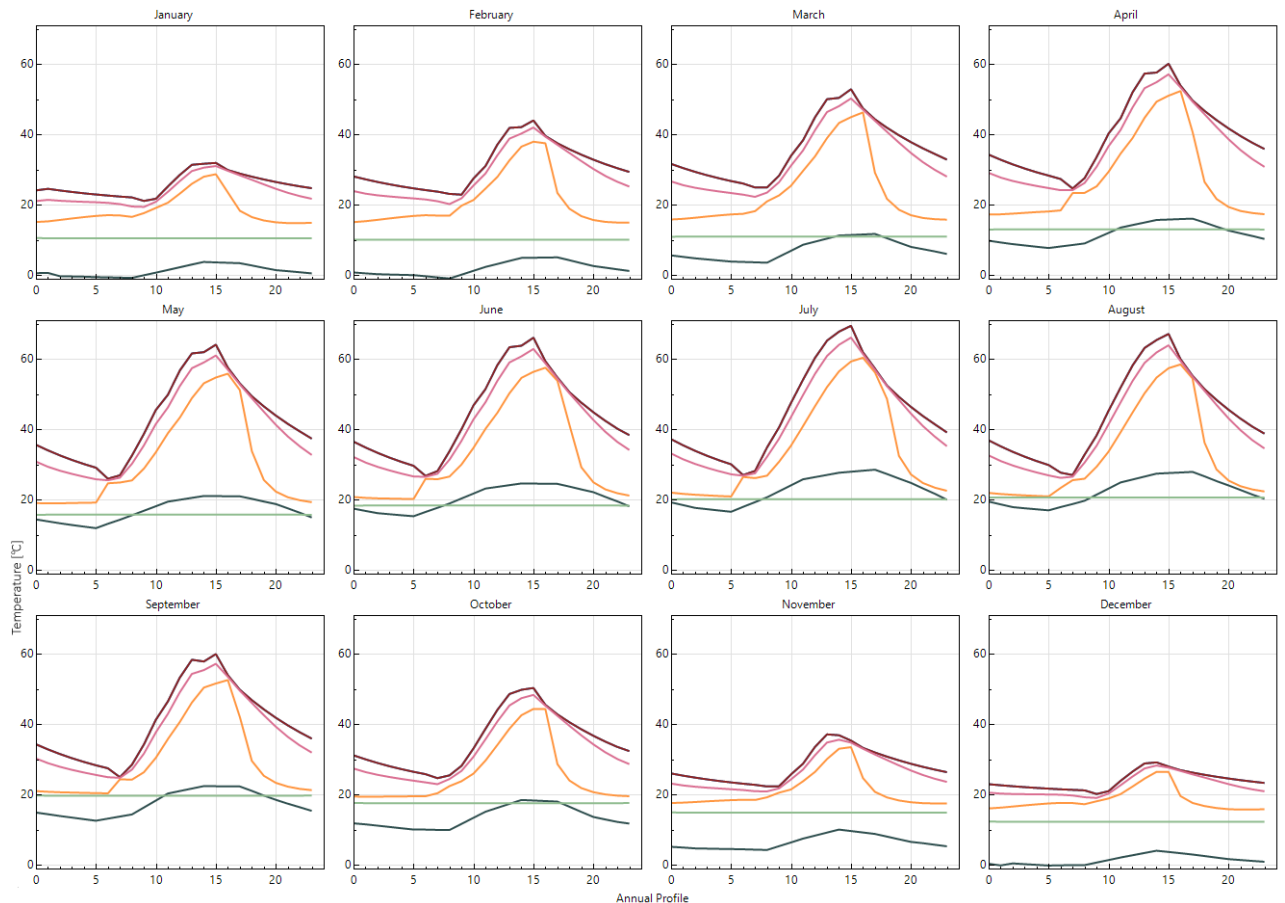
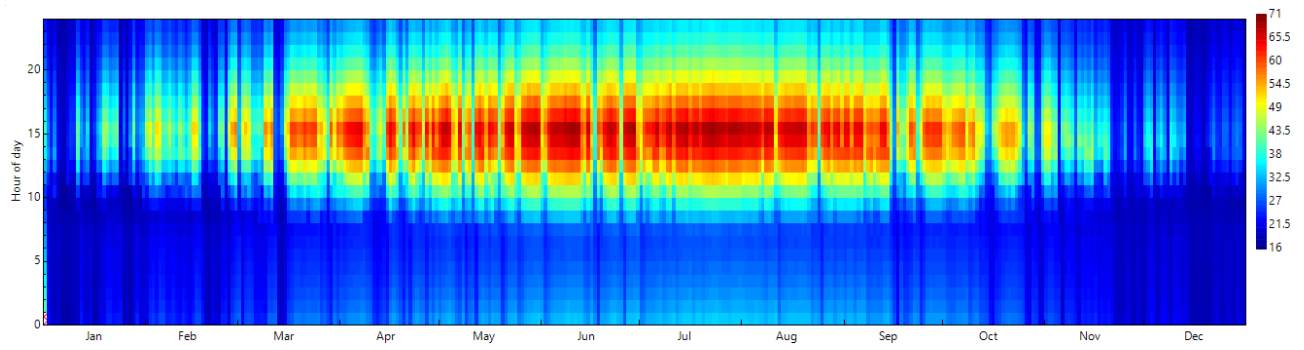
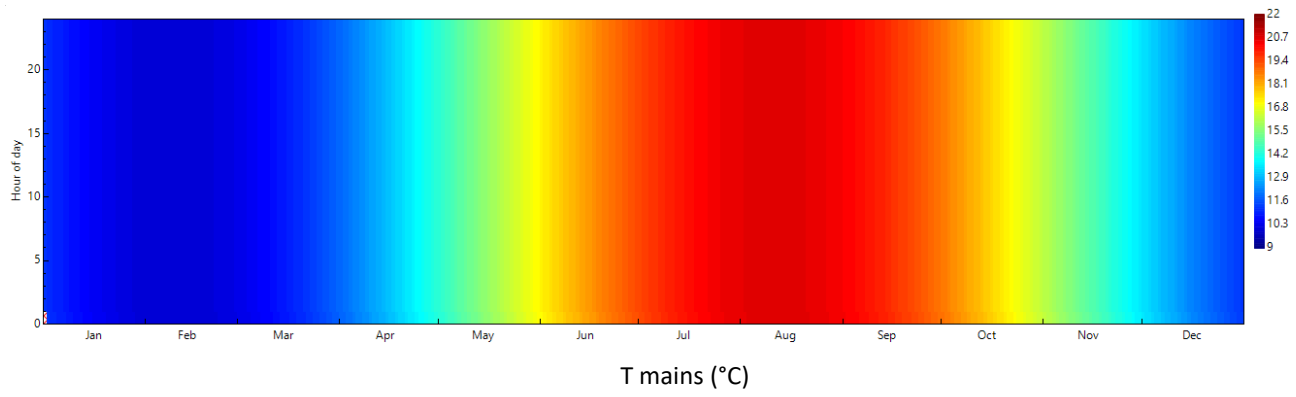
SUBJECT: **APPENDIX 3 - Complete graphical representations**

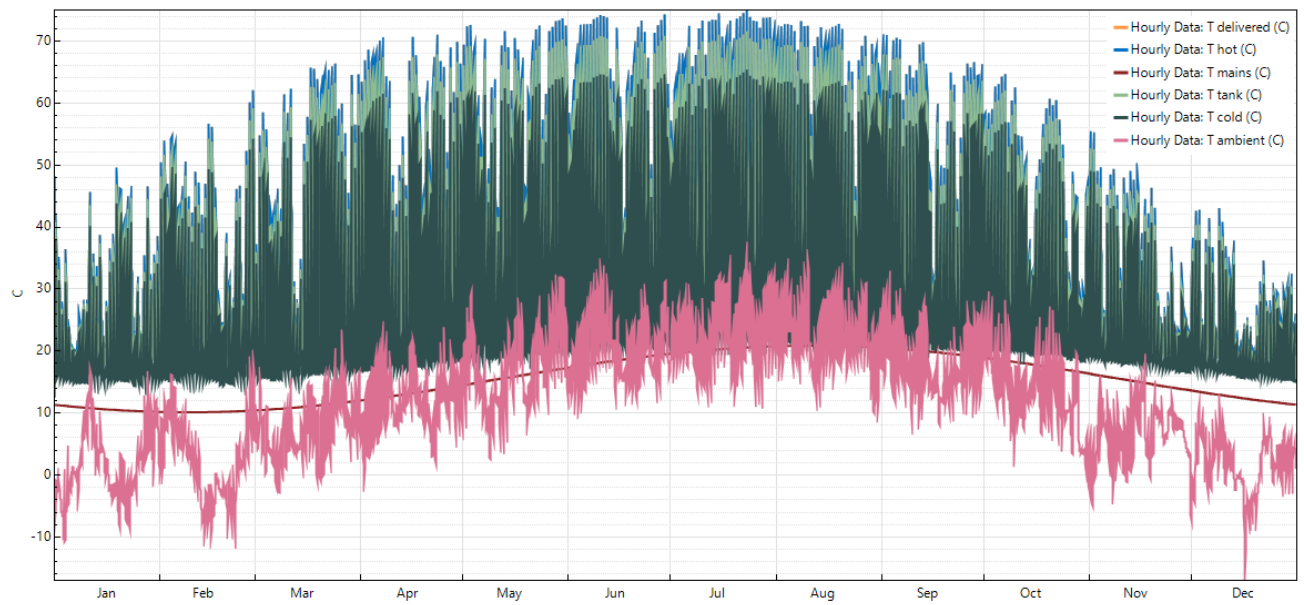
Primary tools used for these representations are monthly profiles, hourly plots, heat maps, as well as probability density functions (PDF's) in the form of a histogram, based on Sturge's formula.

1. Temperatures

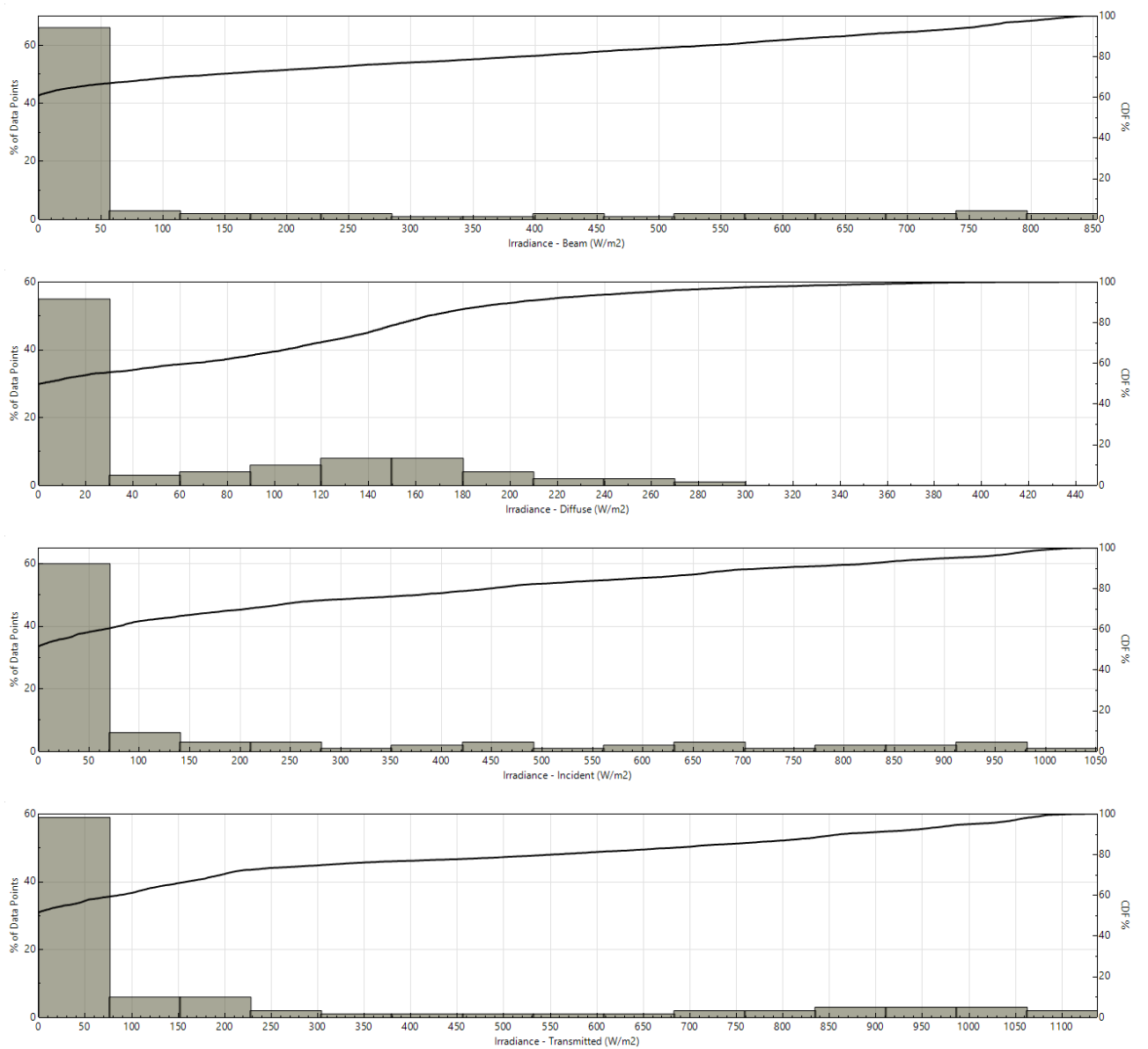


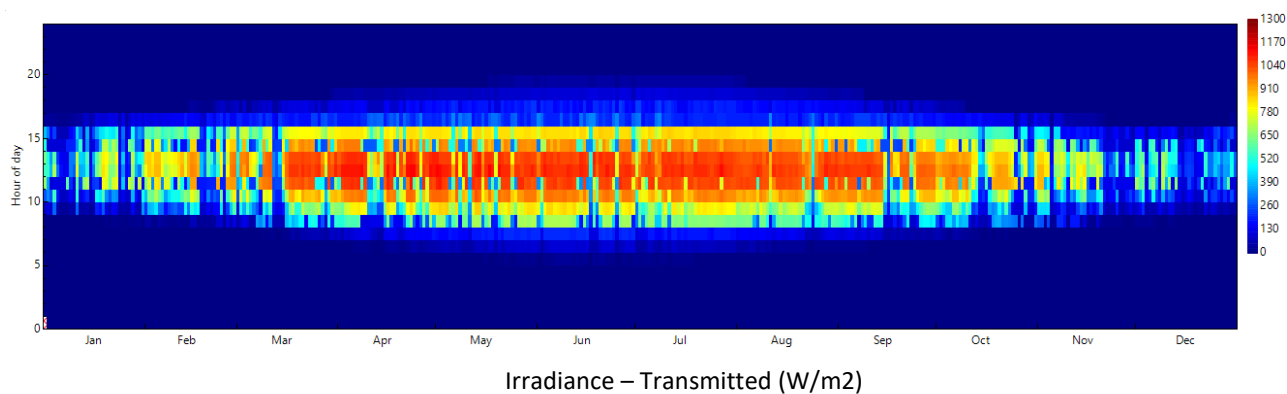
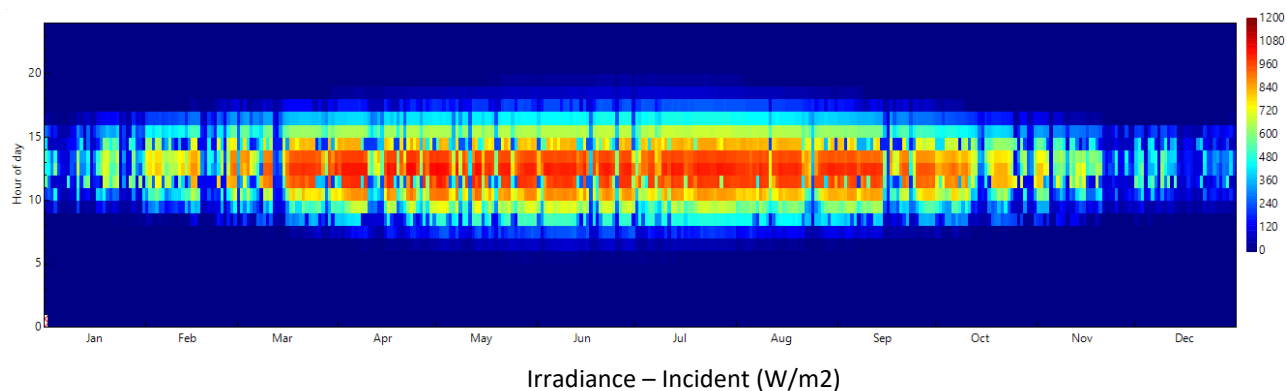
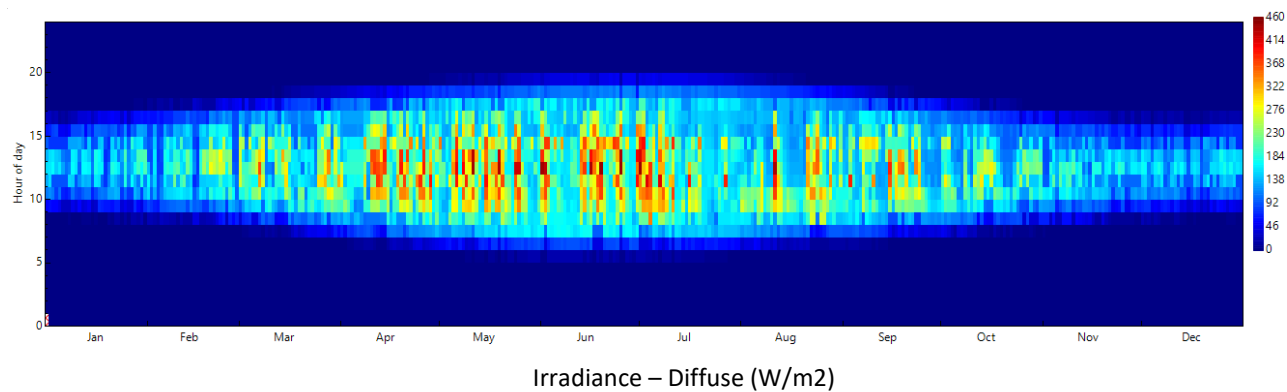
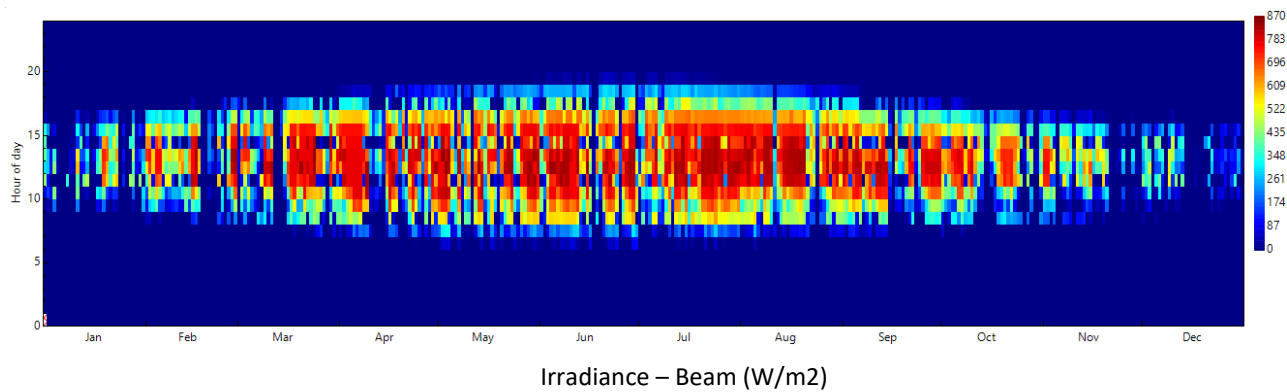


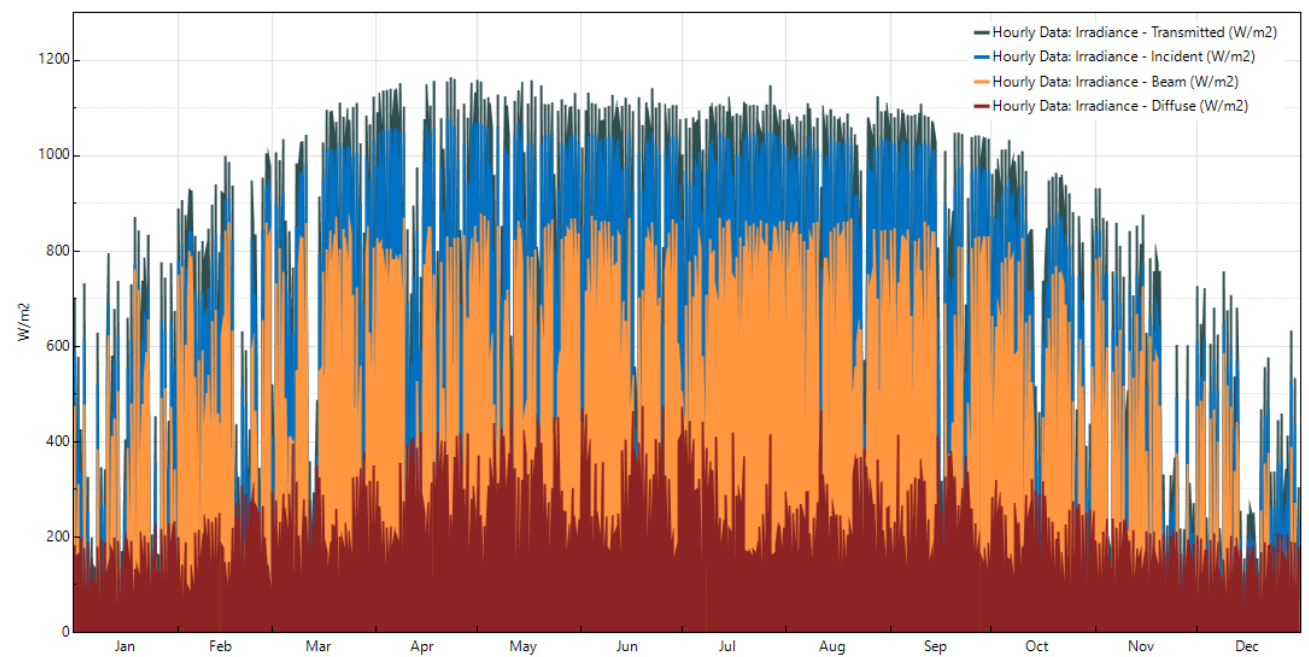
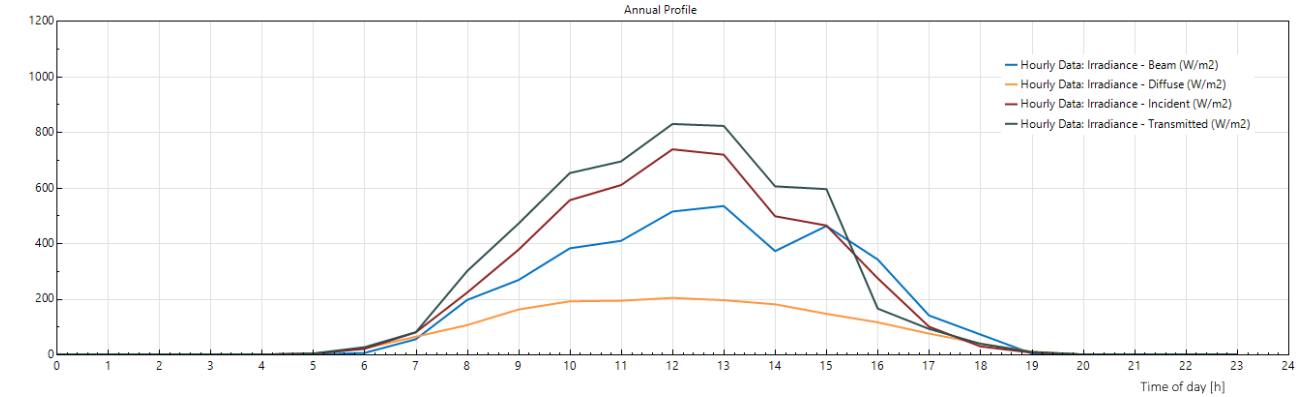
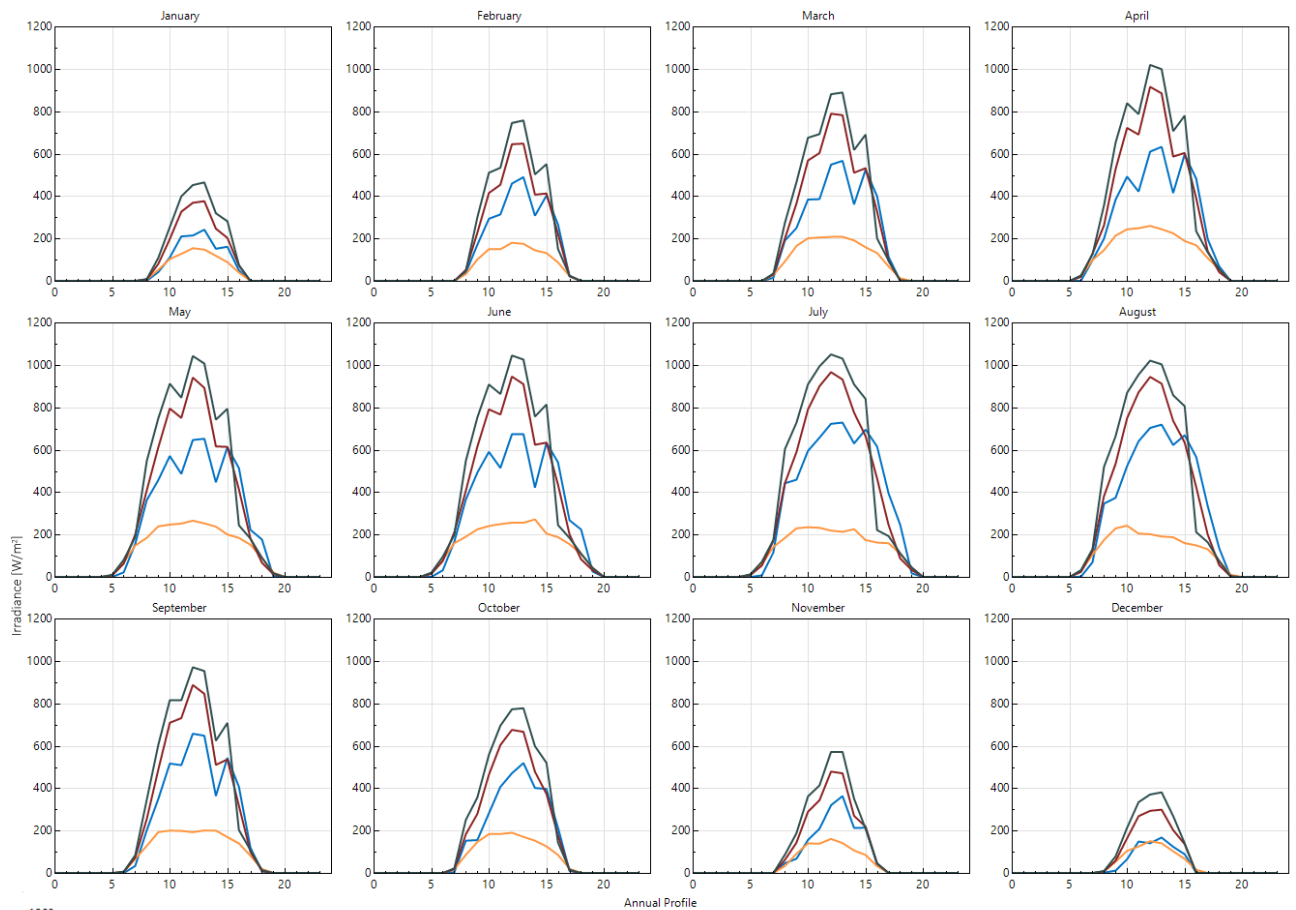




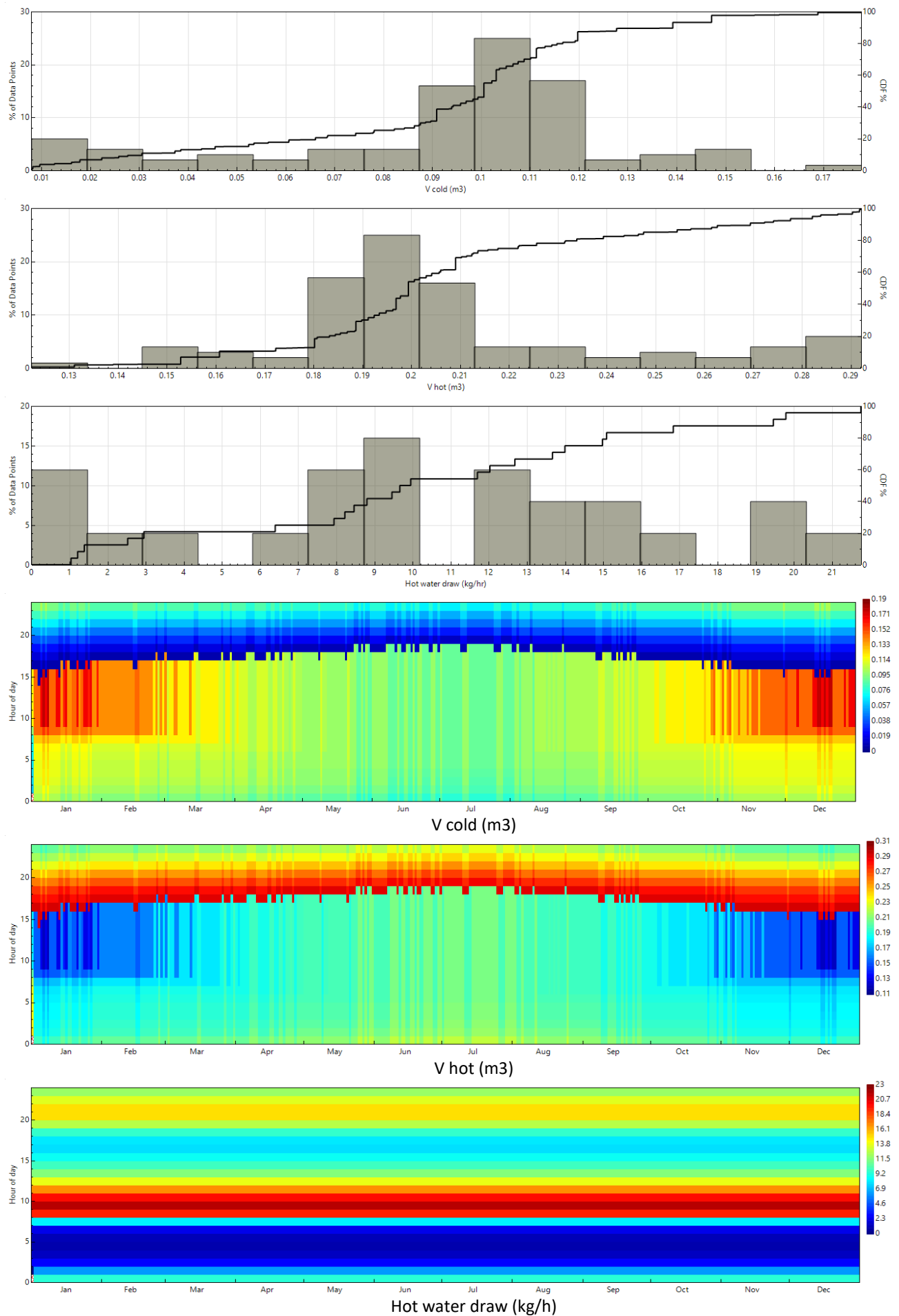
2. Irradiance

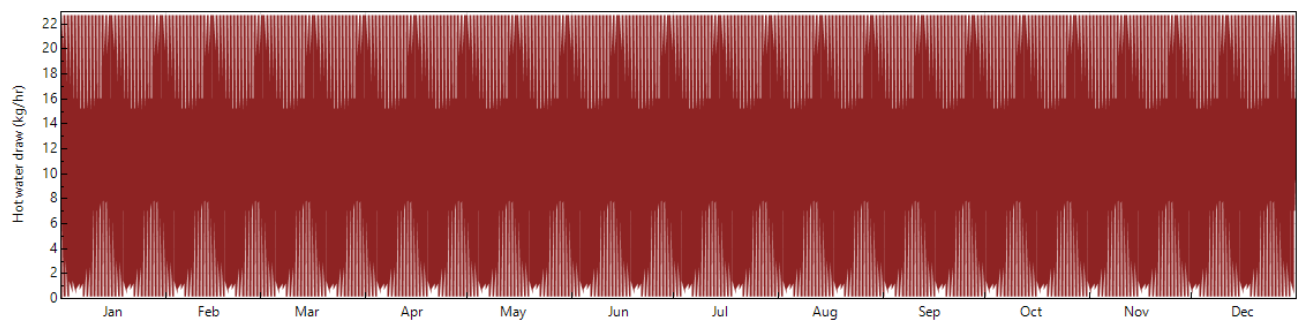
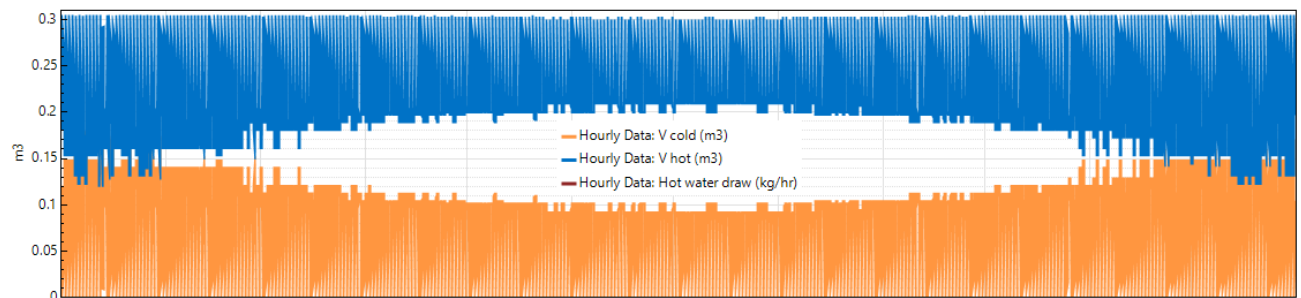
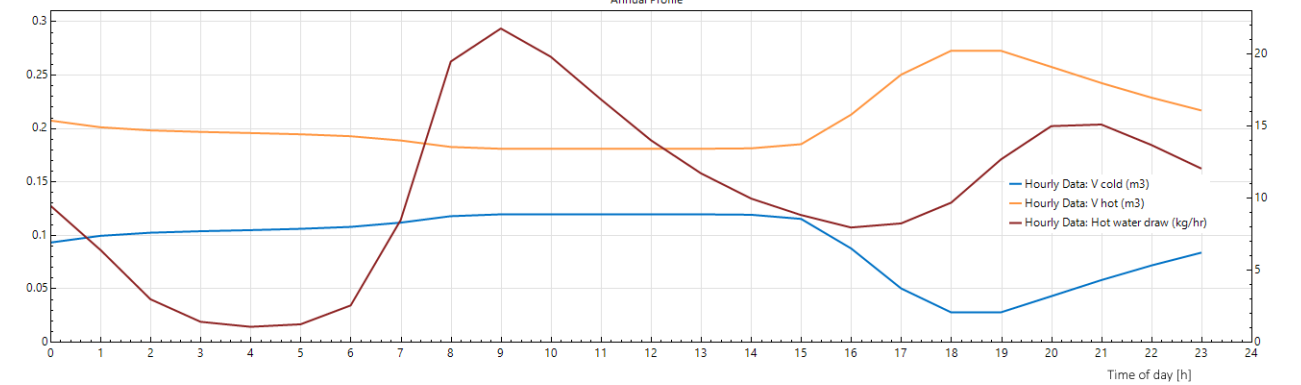
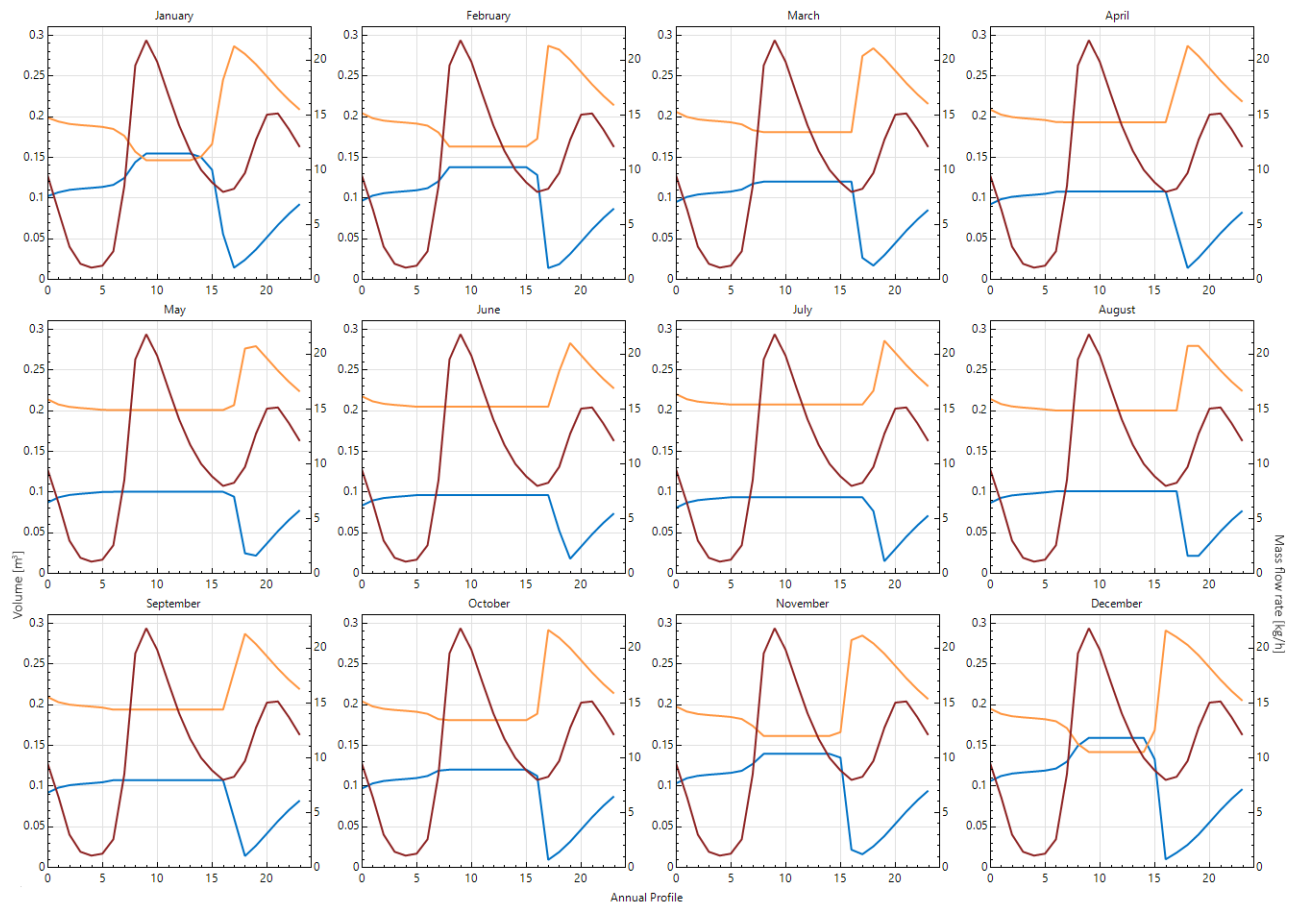




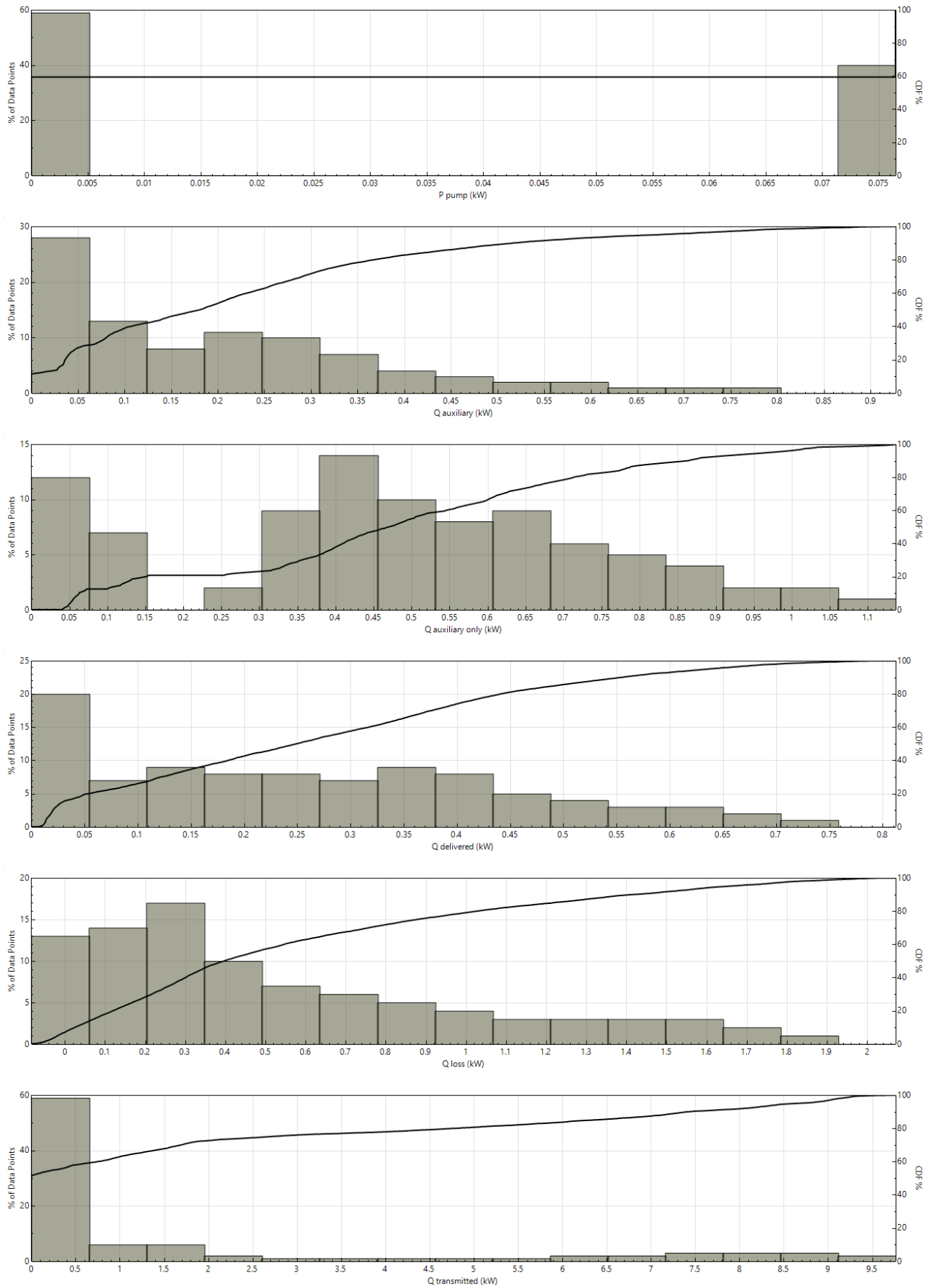


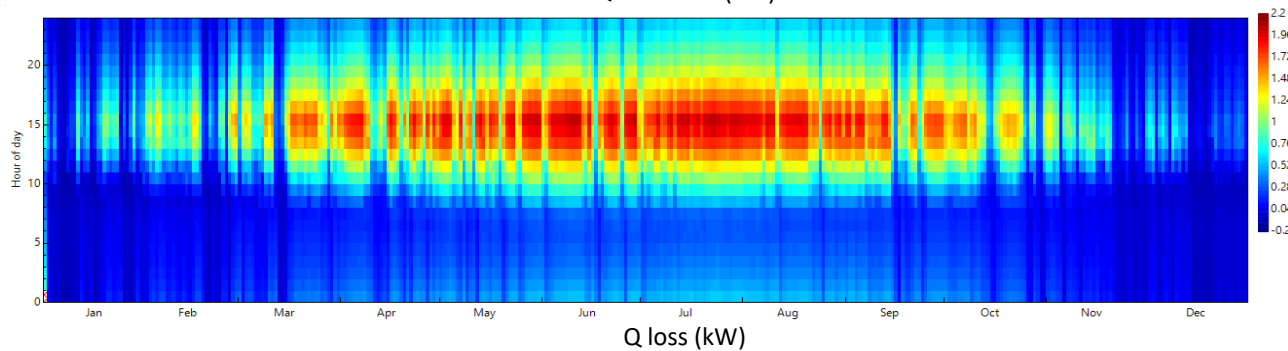
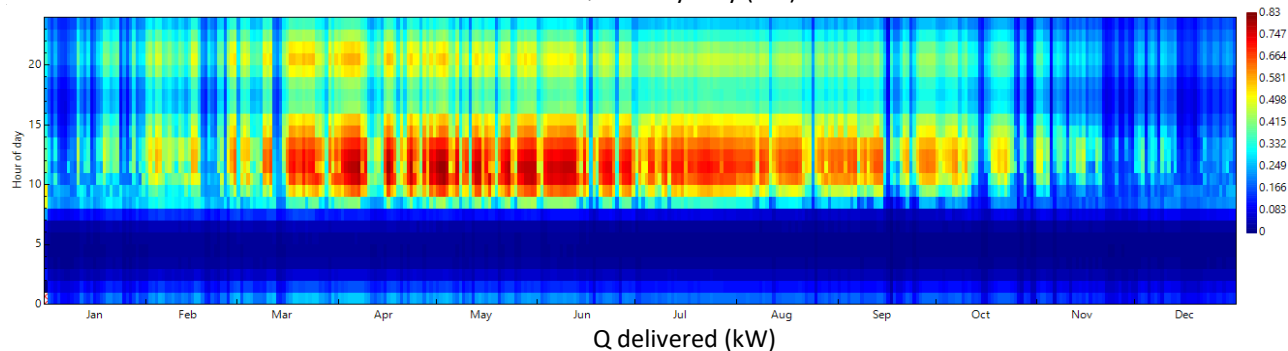
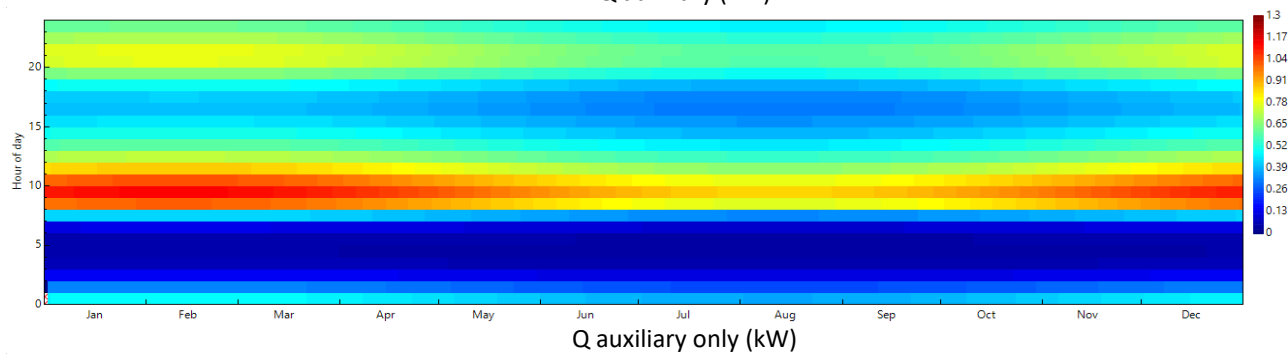
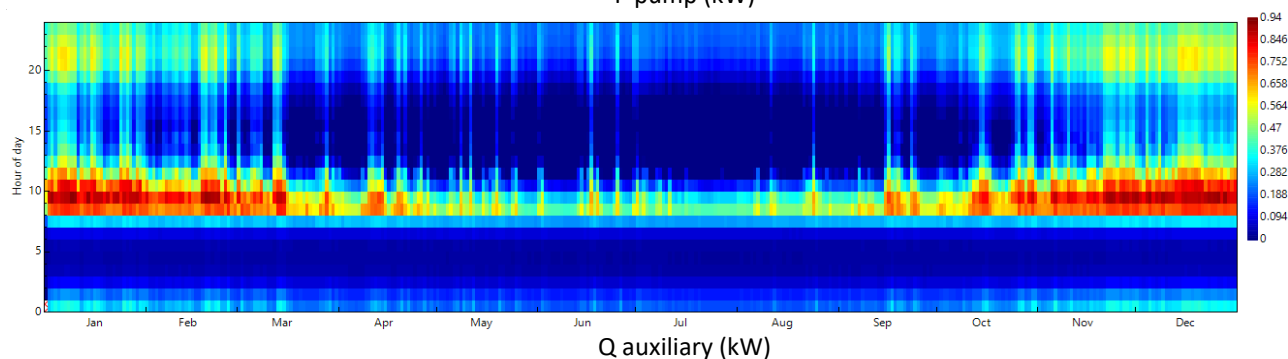
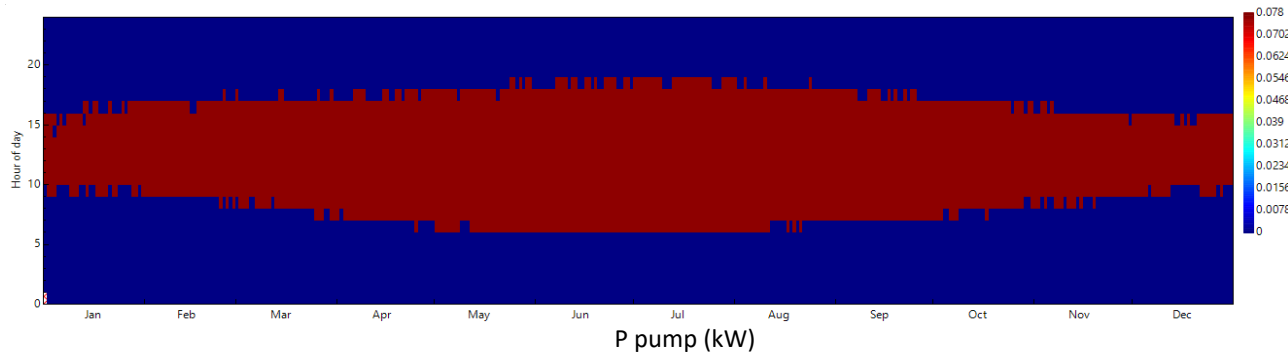
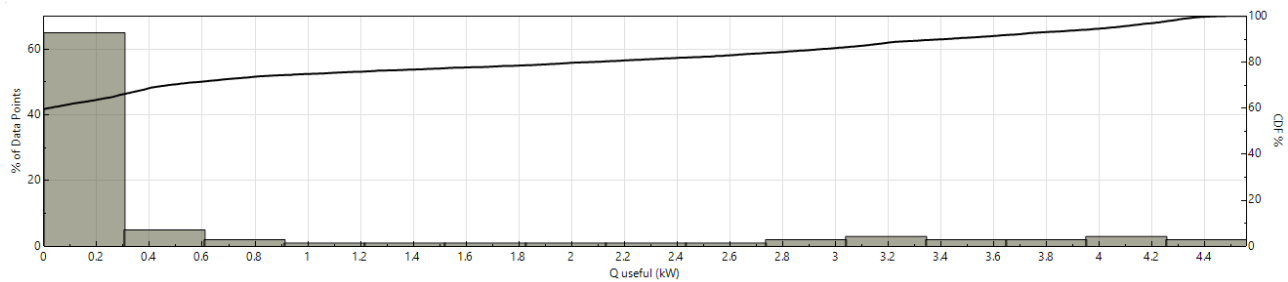
3. Tank volume & Hot water draw

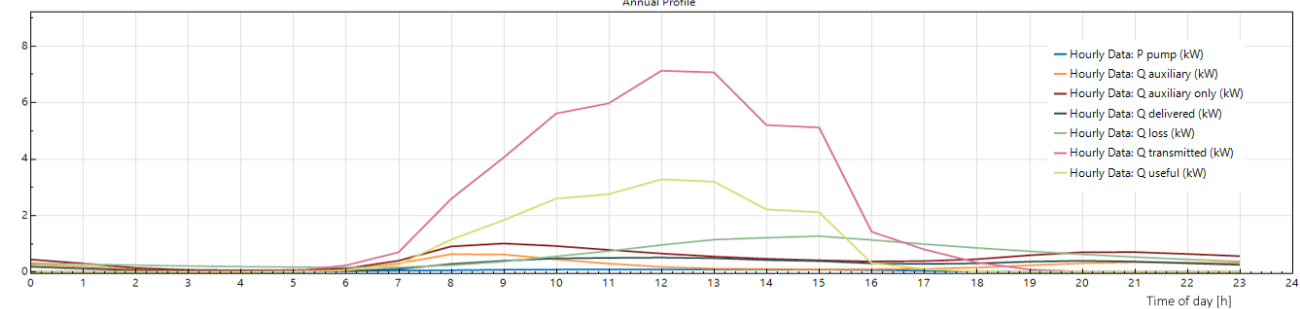
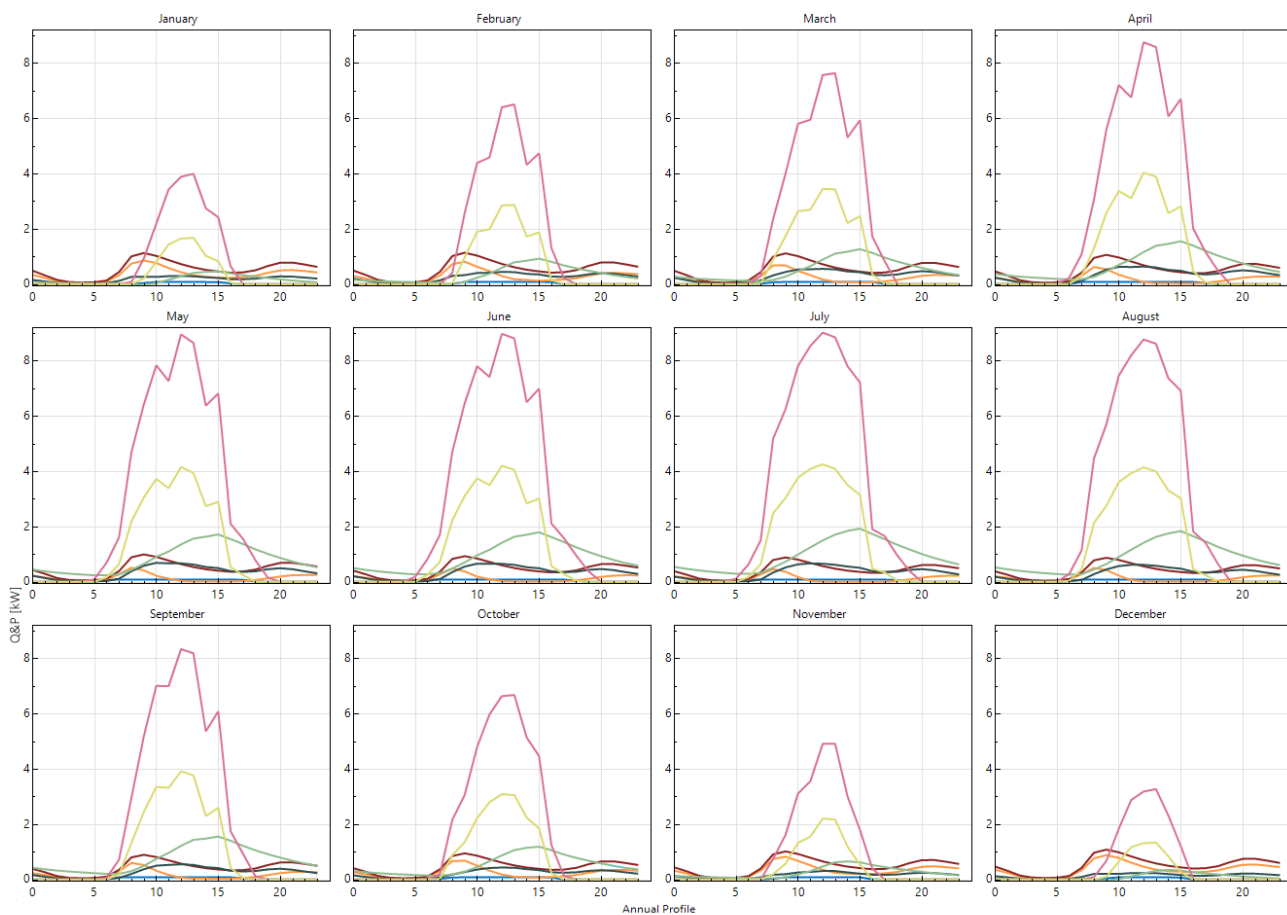
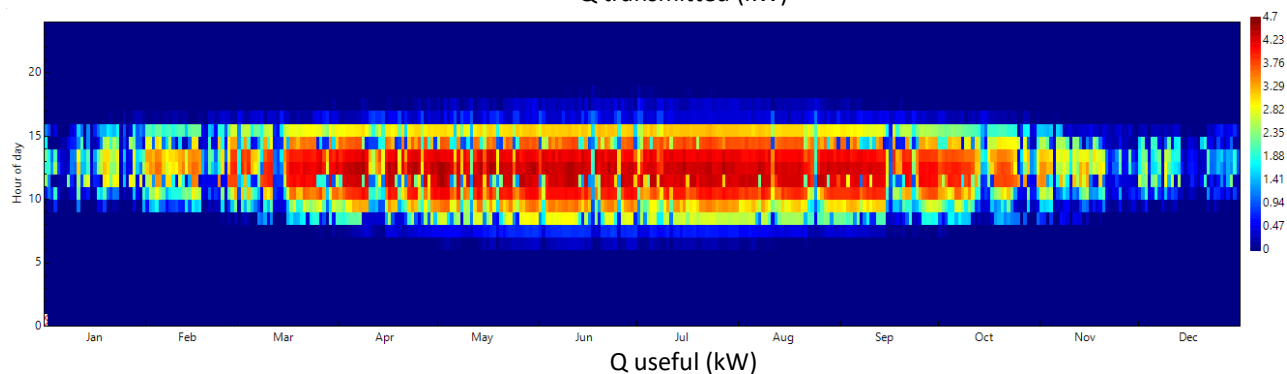
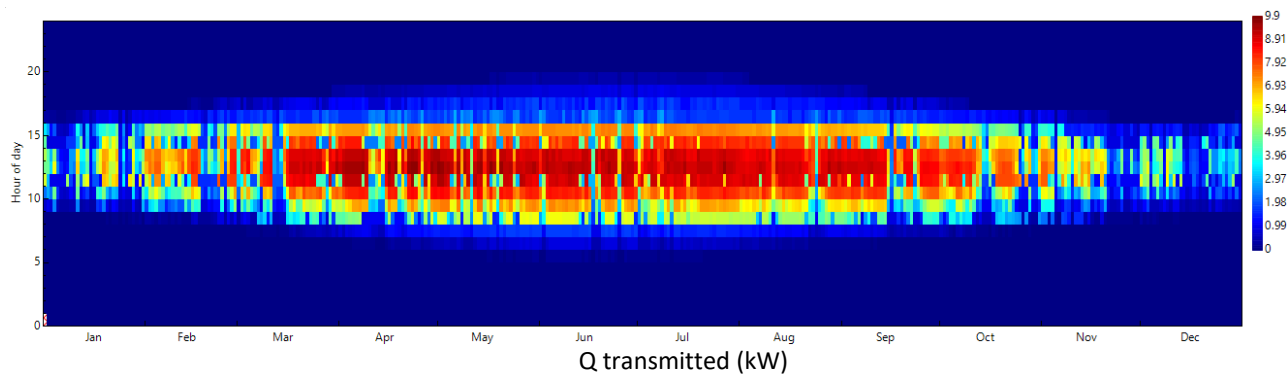


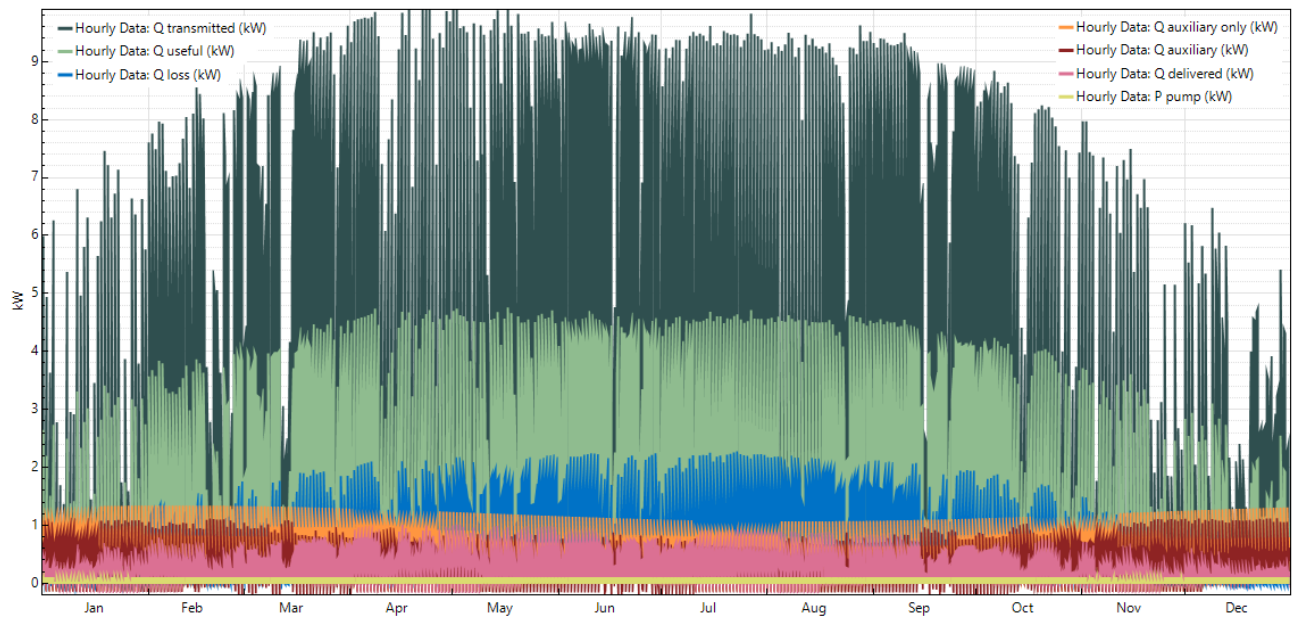


4. Power & Heat load

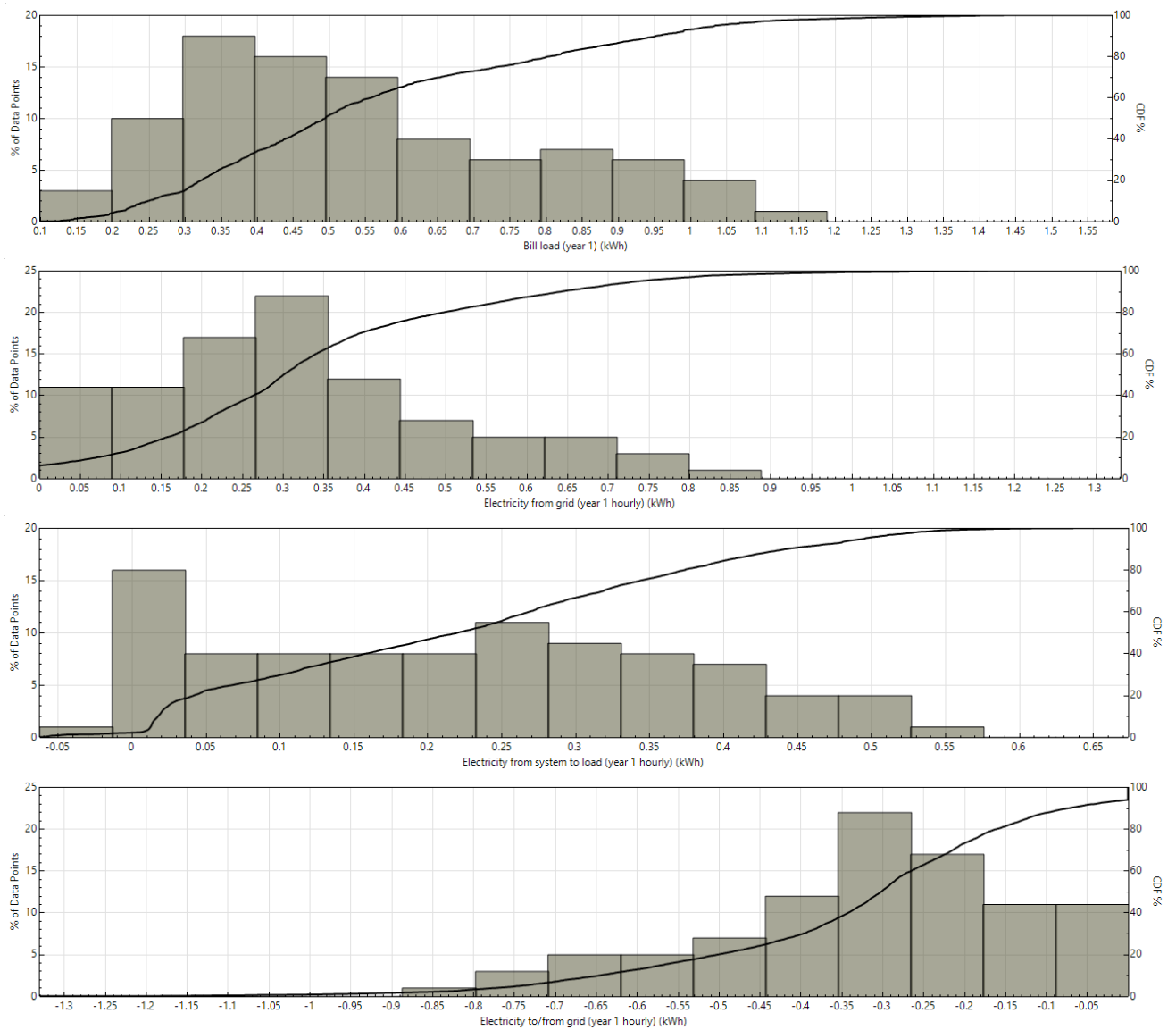


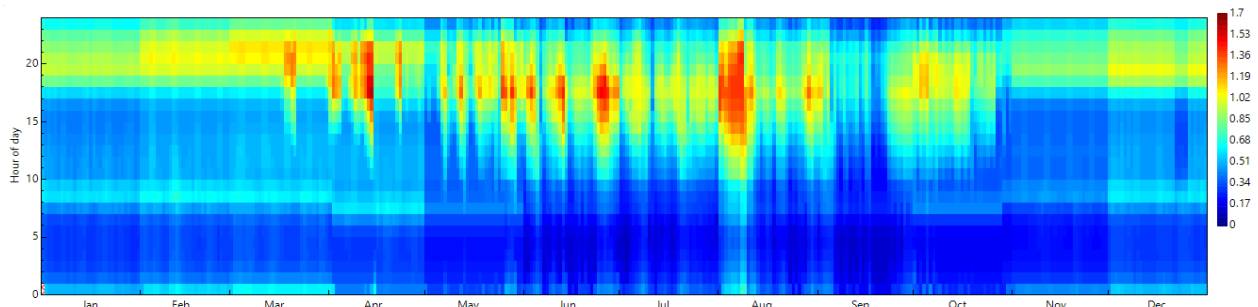
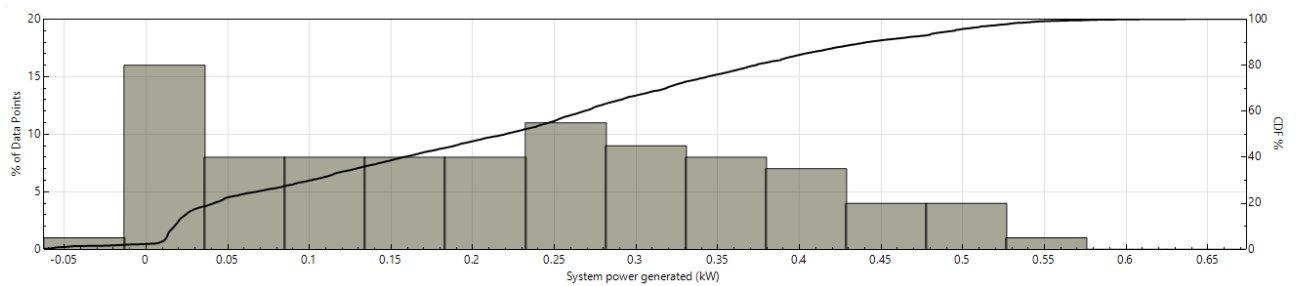
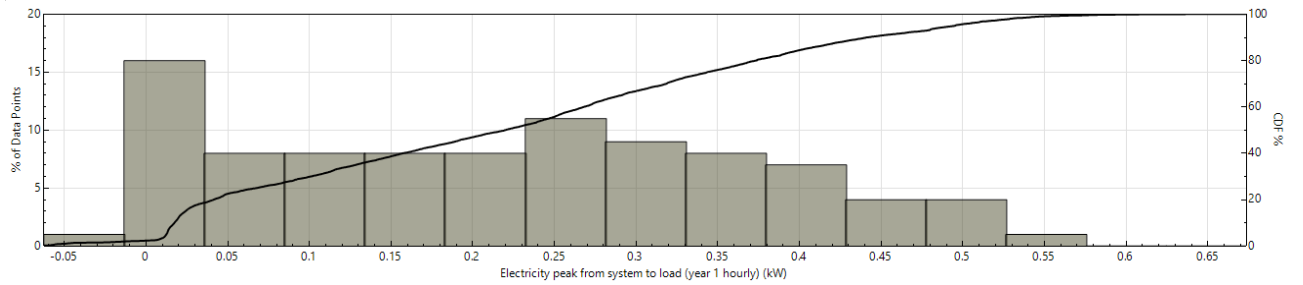
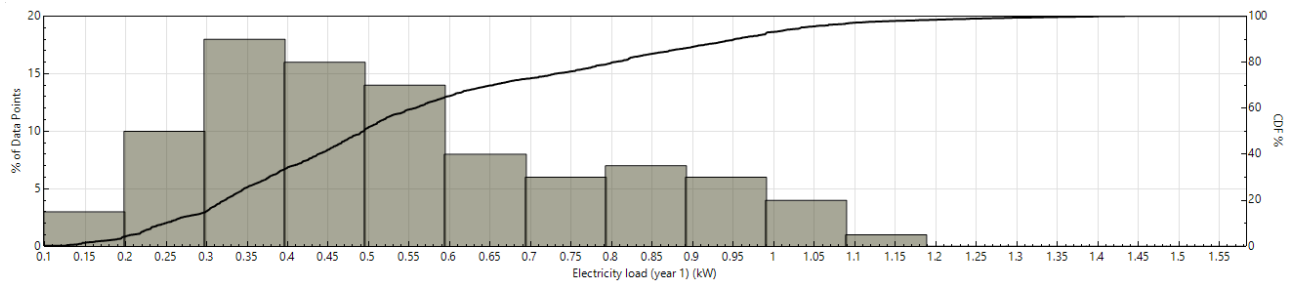




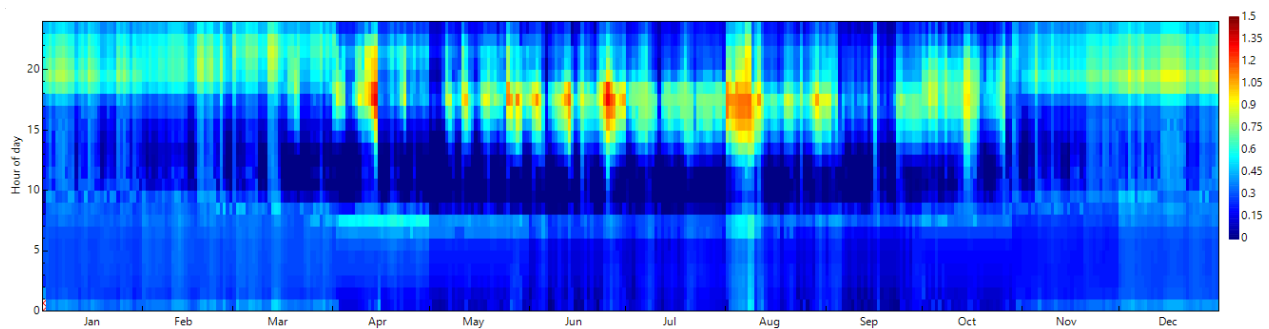


5. Energy consumption/generation/load

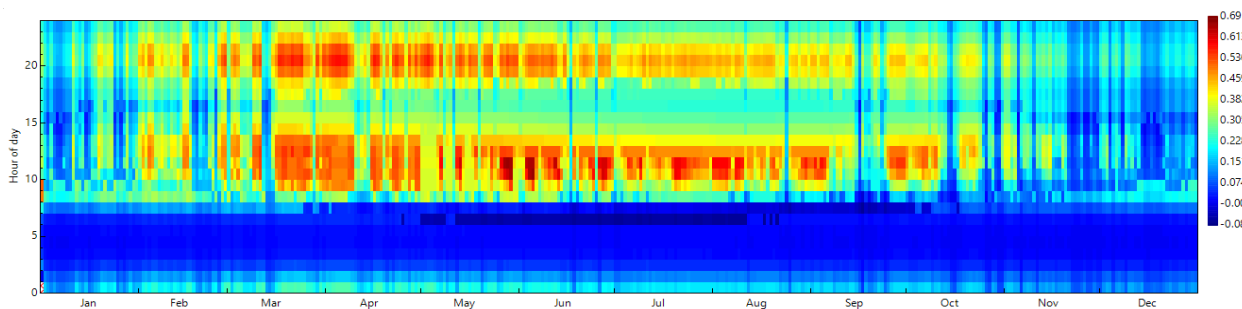




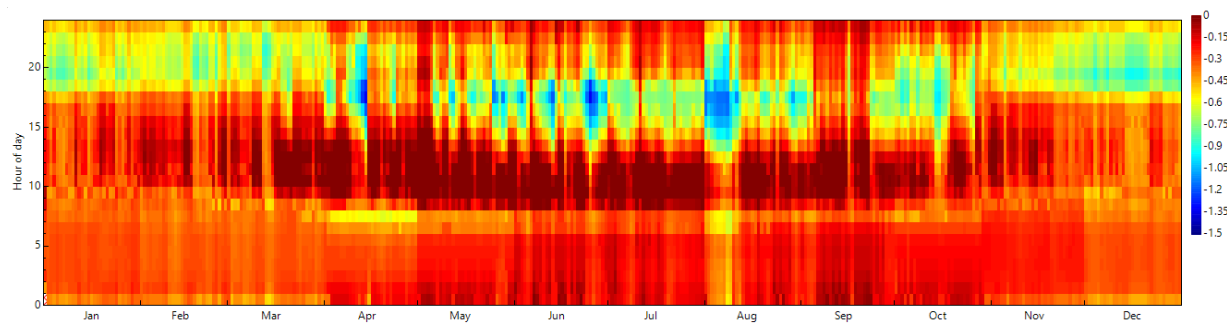
Bill load (kWh) = Electricity Load (kW)



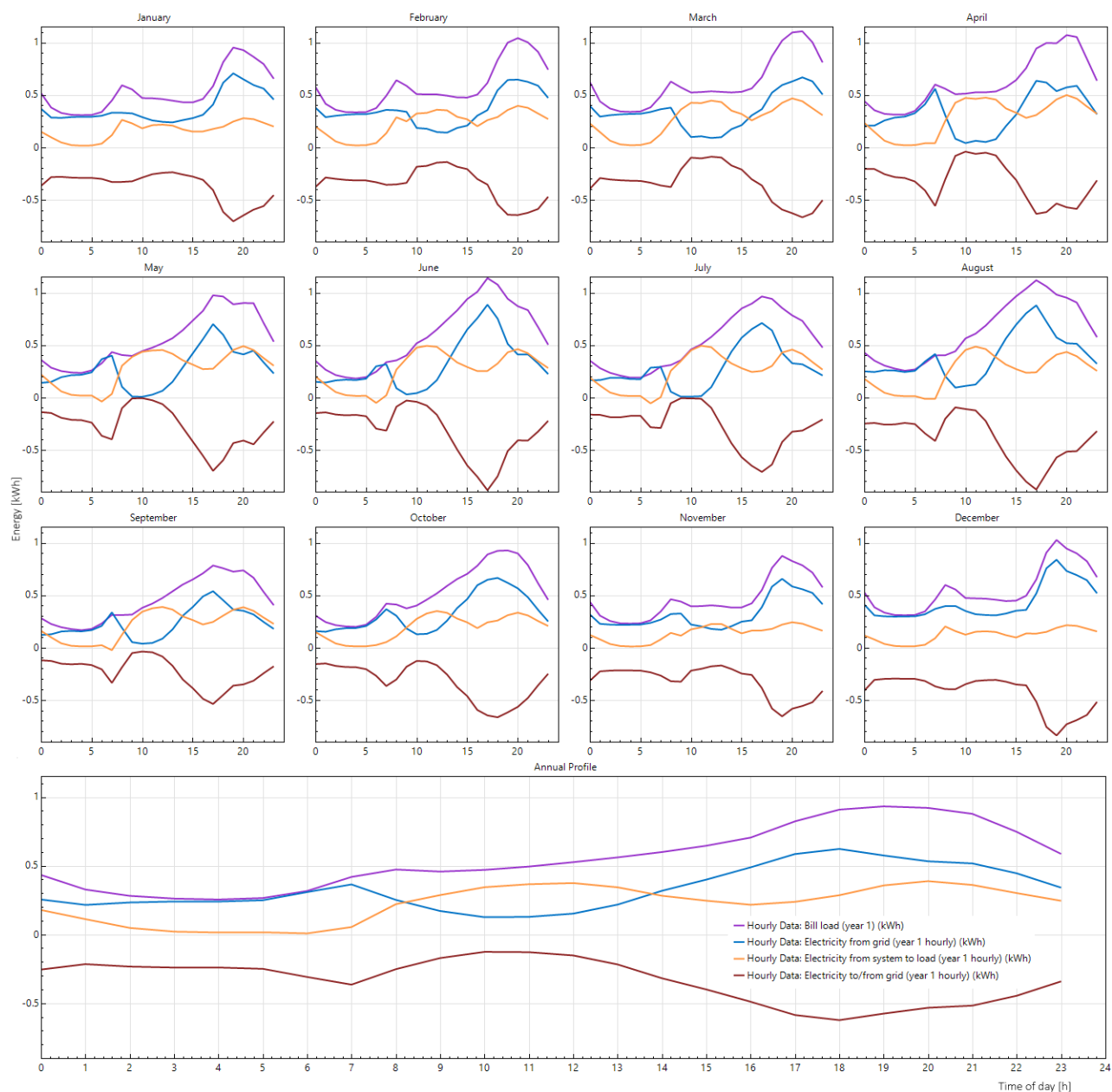
Electricity from grid (kWh)

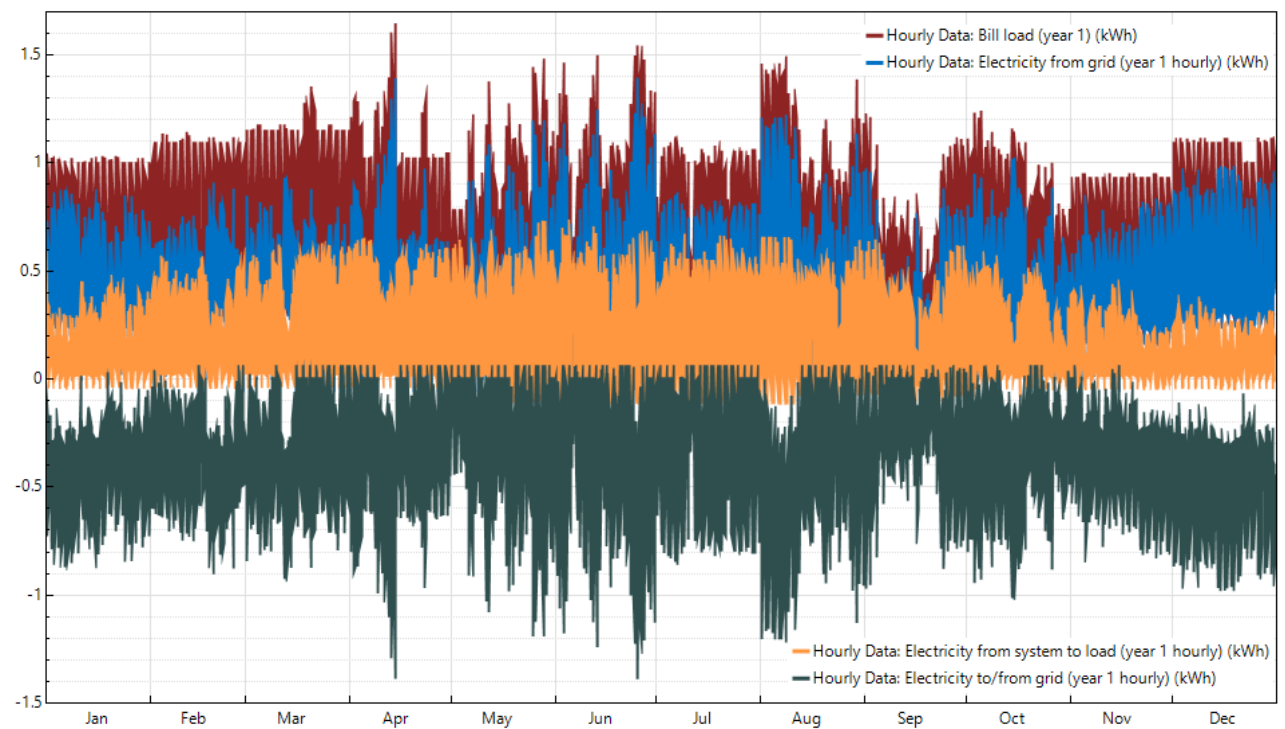
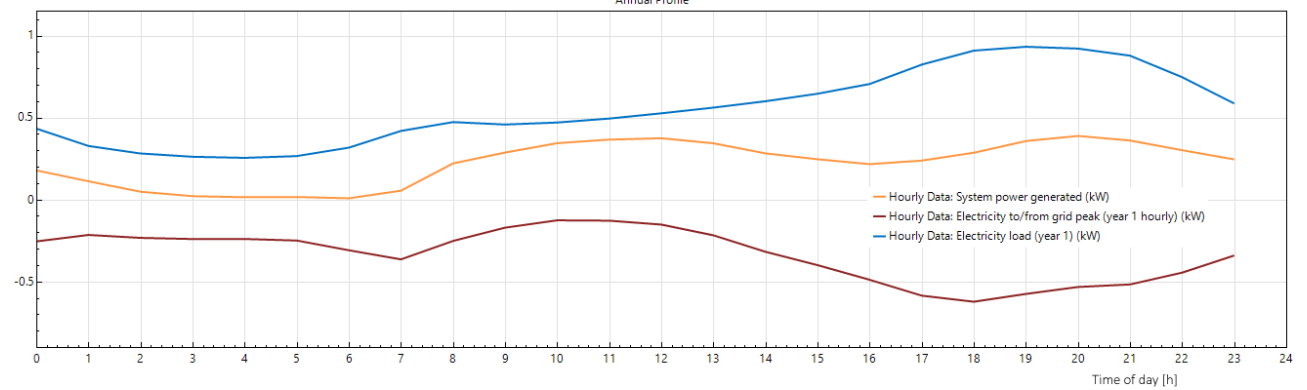
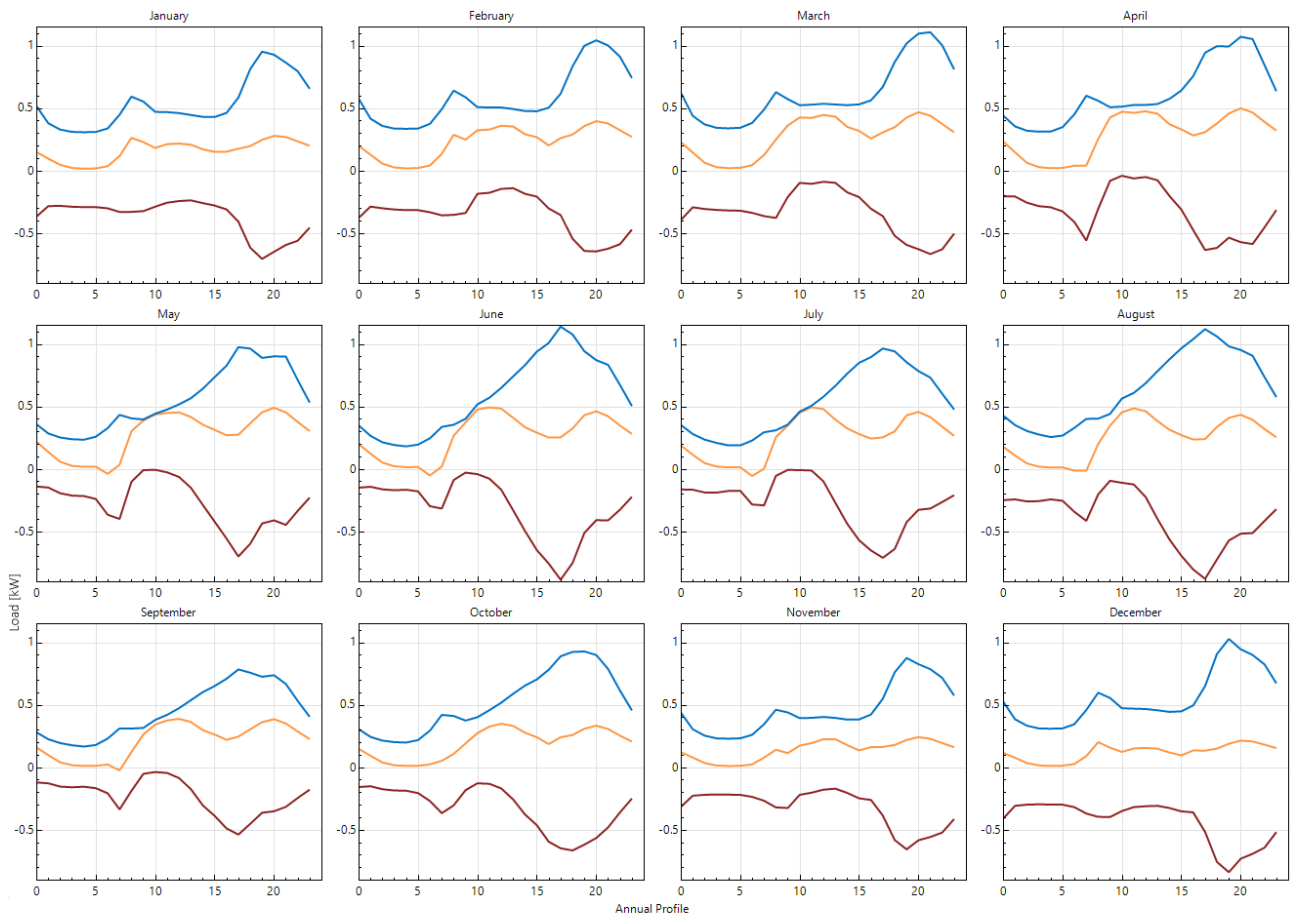


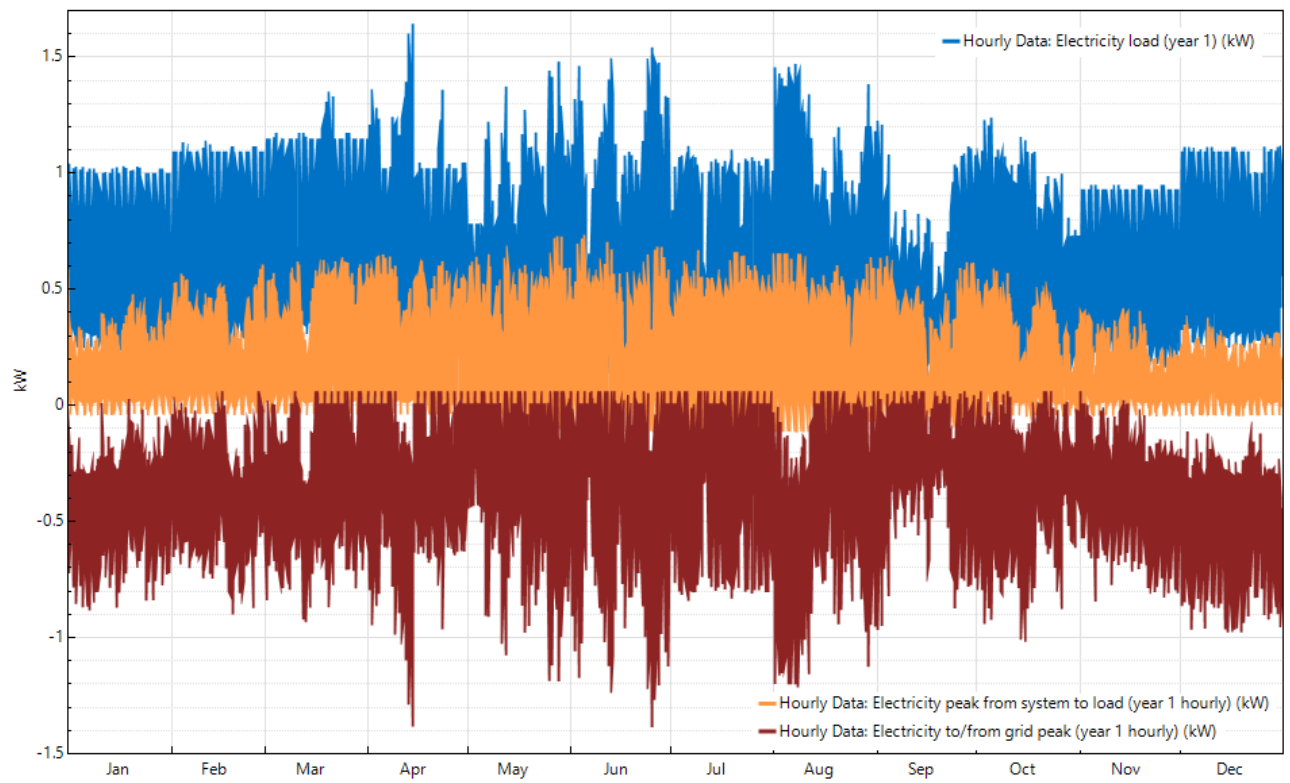
Electricity from system to load (kWh) = Electricity peak from system to load (kW) = System power generated (kW)



Electricity to/from the grid (kWh) = Electricity to/from the grid peak (kW)







6. Operation mode

