



An Coimisiún
um Rialáil Fóntas
**Commission for
Regulation of Utilities**

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Clarification note on the assessment of sorption chillers in the certification process for High Efficiency CHP

Clarification

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Clarification on Useful Heat and Sorption Chillers

The CRU requires applicants to separately meter and assess the cooling output of a sorption chiller. The heat input to a sorption chiller will not be assessed as useful heat. The MWh of cooling output from the sorption cooler must be assessed and added to the MWh of other metered useful heat as applicable. This requires metering for cooling applications under the HE CHP certification process. Where there is an additional non-cooling heat use, the thermal input to the sorption cooler should be metered to allow for separate assessment and verification of useful heat for the non-cooling applications.

The boundary for assessment of generators with sorption cooling units is to include the sorption cooling unit, as shown in the Figure below.

Where a bona fide cooling need is demonstrated by an applicant, there will be no adverse impact experienced. All sites with absorption chillers visited by the CRU to-date already meter the chilled water output as suggested under this approach. It will therefore not require users to install any more equipment.

This approach supports the use of sorption chillers with optimised cooling output, and would give the CRU greater confidence concerning the bona fide use of heat for cooling applications. It also gives additional reassurance to other government departments or agencies who rely on the HE CHP for tax exemptions or other fiscal benefits, which are a cost to the consumer and/or taxpayer.

Where there is not a *prima facie* case that cooling is required for residential, commercial or public buildings applicants are required to demonstrate that it is economically justifiable to use a sorption chiller rather than an alternative technology. This is consistent with the existing assessment process outlined in Section 3 of CER/12/125.

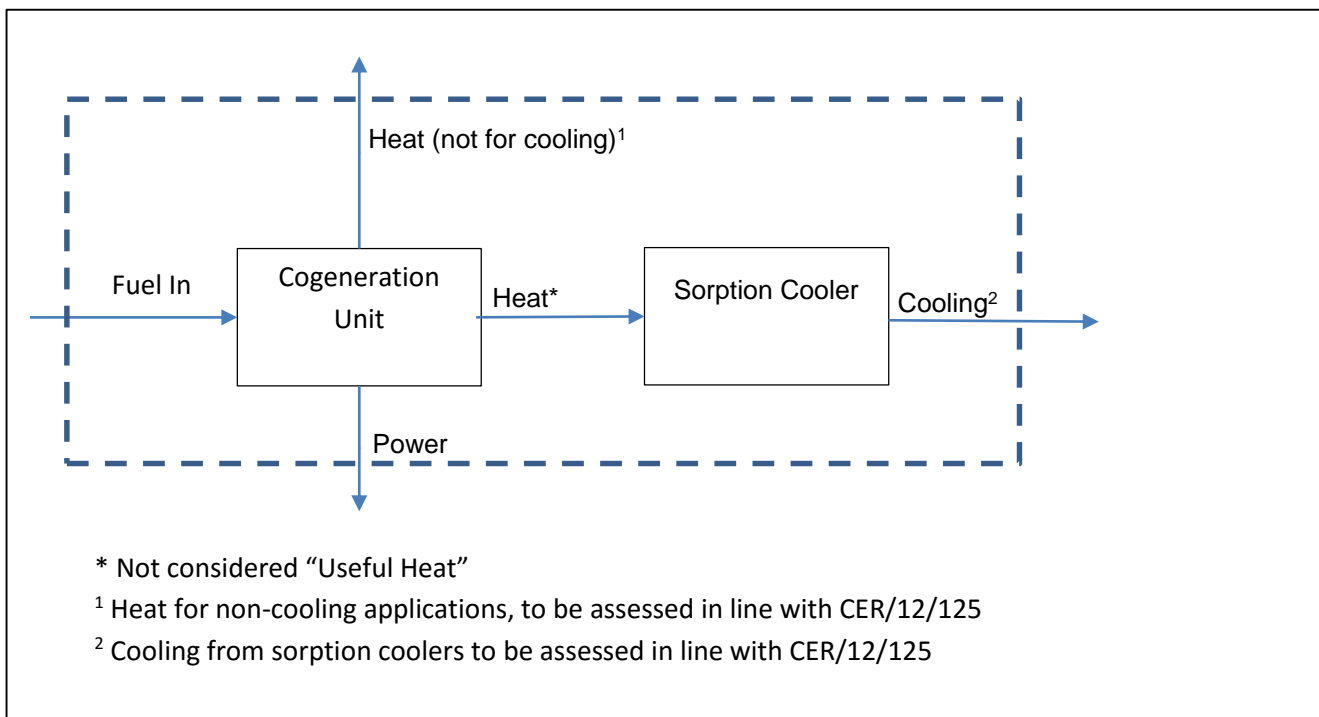


Figure: Boundary of HE CHP Assessment for Systems with Sorption Coolers