## Supporting Information

## Thermal integration of a flexible calcium looping CO<sub>2</sub> capture

system in an existing back-up coal power plant

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**Figure S2.** Composite curves of the heat integration of the concentrated CO<sub>2</sub> stream from the oxy-calciner block with the sub-critical steam cycle according to Figure 4. Solids lines correspond to the concentrated CO<sub>2</sub> stream (hot stream) and dashed lines to the steam cycle streams (cold stream).



**Figure S3.** Composite curves of the heat integration of the CaO stream from the oxycalciner block with the sub-critical steam cycle according to Figure 4. Solids lines correspond to the CaO stream (hot stream) and dashed lines to the steam cycle streams (cold stream).