Supplementary Information:

Thermochemical Energy Storage in Barium Carbonate Enhanced by Iron (III) Oxide

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Figure S1: ~1 g of BaCO$_3$-Fe$_2$O$_3$ heated from room temperature to 900 °C. $\Delta T/\Delta t = 10$ °C min$^{-1}$ using a sealed volume in a Sieverts apparatus at $P_{\text{initial}}$(CO$_2$) = 10$^{-2}$ bar: using a volume of either 53.27 cm$^3$ (green curve) or 203.6 cm$^3$ (red curve), which influences the CO$_2$ pressure achieved during decomposition of the BaCO$_3$-Fe$_2$O$_3$ RCC.
Figure S2: ~1 g of BaCO$_3$-Fe$_2$O$_3$ heated from room temperature to 900 °C. $\Delta T/\Delta t = 10$ °C min$^{-1}$) in a sealed volume (53.27 cm$^3$) using Sieverts apparatus. Dashed curve represents the temperature and solid curve represents the pressure.