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easily worked out by calculating the heat input Q along the yellow step 2 to 3 and the heat expelled during the green step 4 to 1. The efficiency is then $e = W/Q$.

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in Schroeder), $\Delta H_{\text{H}_2\text{O}} = 285.83 \text{ kJ mol}^{-1}$

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1 and $DH = 890:36 \text{ kJ mol}^{-1}$ (12) This time, the final volume is $\frac{1}{3}$ of the initial volume, since the 2 moles of water has condensed out as liquid with negligible volume compared to the gases. Thus the atmosphere does work $PdV = RTDn$ (13)
 $= 8:31 \text{ J K}^{-1} (298 \text{ K})(2)$ (14) $= 4:953 \text{ kJ}$ (15)

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