

Components of energy change,  $\Delta E_{\text{dissolve}}$ ,  
when an ionic solid dissolves in water,  $\text{MX}(s) \rightarrow \text{M}^+(aq) + \text{X}^-(aq)$ .  
The illustration is for an exothermic process,  $\Delta E_{\text{dissolve}} < 0$ .

