Supporting Information: First Principles Investigation of Transition Metal Dichalcogenide Nanotubes for Li and Mg Ion Battery Applications

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Figure 1: (a) Voltage and (b) bind energy profiles for Mg insertion in MoS_2 nanotubes. The horizontal lines display the voltage of a monolayer.



Figure 2: (a) Voltage and (b) bind energy profiles for Mg insertion in WS_2 nanotubes. The horizontal lines display the voltage of a monolayer.



Figure 3: Energy diagram for Mg migration in: (a) $\rm MoS_2$ and (b) $\rm WS_2$ structures.