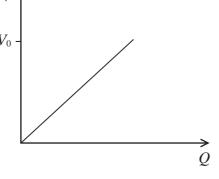
V_0 –

A capacitor is connected to a power supply and charged to a potential difference V_0 .

The graph shows how the potential difference V across the capacitor varies with the



Which of the following gives the approximate increase in energy stored on the capacitor

At a potential difference V_0 a small charge ΔQ is added to the capacitor. This results in

a small increase in potential difference ΔV across the capacitor.

due to this extra charge?

$$\triangle$$
 A $\Delta V \times \Delta Q$

charge Q on the capacitor.

$$\triangle$$
 C $V_0 \times \Delta Q$