

### Question 23660

For  $n$  capacitors, connected in parallel, total capacity is  $C = C_1 + C_2 + C_3 + \dots + C_n = n \cdot C$ , where  $C$  is the capacity of each capacitor. It is known, that energy of capacitor with capacity  $C$ , connected to  $V$  volt source is  $E = \frac{CV^2}{2}$ . Hence, for this system of capacitors,  $E = \frac{n \cdot CV^2}{2}$ .