

**Answer on question #54346, Physics / Electric Circuits**

**Question** N identical capacitors are joined in parallel and the combination is charged to a potential V. Now if they are separated and then joined in series, will the energy of combination remain the same or will it increase? Explain why.

**Solution** The energy of combination of capacitors will remain the same, as the system do not gain and do not lose any energy while re-arranging from parallel to series connection.

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