

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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