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A train of mass 250 000 kg is accelerating at 0.90 m s^{-2} . At one instant, the speed of the train is 5.0 m s^{-1} and the resistive force to its motion is 15 kN.

At this instant, what is the rate of increase of kinetic energy of the train?

A 75 kW

B 1.1 MW

C 1.2 MW

D 3.1 MW