The Phase II Upgrade of the CMS forward calorimeters (electromagnetic and hadronic) originates from the fact that these calorimeters will not be sufficiently performant with the expected HL-LHC (High Luminosity LHC) conditions. The major challenge is to preserve/improve the high performance of the current forward detectors with new devices that can withstand the unprecedented radiation levels and disentangle the very large event pileup. Here, we present an overview of the various upgrade options being considered by CMS, explaining the detector concepts and current/future beam test activities.

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