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Abstract	:	Gradually, sustainable maintenance in the heritage buildings conservation moving forward to achieve The Sustainable Development Goals (SDGs), 2030 Agenda. The aim of this paper is to determine sustainable lime-based mortar repair in heritage buildings conservation based on calculation procedures of Green Maintenance model within cradle-to-site boundaries of Life Cycle Assessment (LCA). The calculation appraises Environmental Maintenance Impact (EMI) of selected case studies. This underpins informed decision-making in low carbon repair options in heritage buildings conservation. EMI appraisal of Green Maintenance Model in this paper is not confined to heritage buildings and can be applied to any building of different technologies and materiality. Moreover, EMI appraisal in this paper may enhance understanding of the relationship between lime-based mortar repair and their environmental performance. Significantly, this paper establishes interdisciplinary conservation strategies for heritage buildings located at UNESCO World Heritage Site (WHS).