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# Building integrated photovoltaics (BIPV): costs, benefits, risks, barriers and improvement strategy

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## Abstract

Building ... that are integrate... free' energy from sur... wever, up until nov... isk factors/b... o been limited... o encourage BIPV... sts, benefits and risks... n a stakehol... ure. The results o... apital costs, there are... s and the entire sc... overnment

policy support and incentives are required in order to promote wider BIPV application. In addition, this research has identified the fact that there was a lack of detailed BIPV cost data (including individual component costs) and lack of methods for BIPV cost–benefit analysis, and there are risks and barriers in BIPV applications. Following this, this research provides a strategic framework and a number of suggestions to industry stakeholders for integration and collaboration within the BIPV supply chain in order to facilitate the cost reduction of BIPV. Finally, this study proposes several topics for future research. It is anticipated that the results presented in this paper have implications not only for government policy and product development and application, but also for academic research.

Keywords: building integrated photovoltaic (BIPV) construction cost–benefit stakeholder risk barrier supply chain strategy

## Disclosure statement

No potential conflict of interest was reported by the authors.

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