



FSR Climate Annual Conference 2020

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Keynote Lecture

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Innovation and the Low-Carbon Transition

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ABSTRACT

Decarbonisation in line with the Paris targets will require huge innovation: technological, social and institutional. This paper presents and synthesizes some of the results of the more than 50 journal papers that have so far been produced by the Horizon 2020 project INNOPATHS (Innovation Pathways, Strategies and Policies for the Low-Carbon Transition). It explores in considerable detail the technological dimension of innovation (costs, learning curves, expert elicitation, historical analogues, innovation framings, patents and spillovers) and introduces an online tool that summarises much of this information. Other aspects of the low-carbon transition that are covered are labour markets, finance, justice and political economy, scenarios, and policy implications, with the presentation introducing another online tool that summarises what is known about the effectiveness of low-carbon policies.