Thermoelectric generators are attracting global attention for harvesting waste heat and converting directly to electricity with few moving parts. There is a clear need both in the process industry and in the transport sector to save energy and thermoelectrics are emerging as a viable solution for some applications. The main challenge is to find new materials that can convert with high efficiency and at the same time withstand the harsh environments they are subjected to and to be cost effective for mass production. This presentation will examine these and other aspects from a materials research perspective.

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