

RELATÓRIOS

HENRIQUES JUNIOR, M. F.; DANTAS, F. S.; PINTO, R. G. D. **Energy efficiency in cement sector in the Brazil**: final technical paper. Rio de Janeiro: INT, 2016. 56 p.

RESUMO: This study was carried out by the National Institute of Technology- INT, in a partnership with the Fundação de Ciência, Aplicações e Tecnologia Espaciais-FUNCATE, and the support of the International Finance Corporation - IFC, aiming to assess financially-viable various options to improve thermal and electric energy efficiency (EE) in the Brazilian cement sector and propose actions to realize the economic energy saving potential in the sector. In this sense, in addition to seeking a selection of the most appropriate technologies for implementation in this sector in the country, the study also assessed the existing barriers and some mechanisms and incentives to overcome them. Within the set of technological options to achieve higher energy efficiency, the study defined some of the main parameters of interest of each energy-saving measure or technology, such as specific energy savings, costs involved, and GHG emissions to be mitigated. The outputs of this report will be used as inputs to the Low Carbon Technology Roadmap for the Brazilian Cement Industry, developed jointly with the Sindicato Nacional da Indústria de Cimento - SNIC), the Associação Brasileira de Cimento Portland - ABCP, the International Energy Agency - IEA and the World Business Council for Sustainable Development - WBCSD. The INT team has been provided by technical support from the consulting firms Econoler and Institute for Industrial Productivity- IPP, also supported by IFC, which provided the data on international best practice experience pertaining to thermal and electric energy efficiency in the cement sector, including technology description, economic and financial characteristics, innovative business models used to improve energy efficiency. To ensure the applicability and relevance of each energy efficient measure in the Brazilian market, the study had important technical contributions provided by the associations of the cement industry, SNIC and ABCP, which consolidated the data of several Brazilian companies, including a technological survey of the industrial park in Brazil, supported by an independent consultancy in order to preserve private and undisclosed information. Finally, this study also discusses the main barriers to penetration of energy efficient technologies, especially those of greater economic viability, and presents some political measures and mechanisms to overcome them.

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