### Renewable energies and economic development: evidences of study in panel

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Valdir de Jesus Lameira holds a postdoctoral at INESC Coimbra, Portugal, a PhD in Finance from PUC-Rio and a MSc in Production Engineering from UFF. He also holds a graduation in Engineering from UFRJ. Professionally, worked on the Rio de Janeiro Stock Exchange, Price Waterhouse and Bank of Brazil. Nowadays he is a capital market analyst at Brazilian Securities and Exchange Commission. Associated researcher at INESC Coimbra, institute linked to the University of Coimbra. Teacher of corporate finance at Ibmec-RJ - Brazilian Institute of Capital Market. Author of books, chapters and articles published in Brazil and abroad.

Fabiana Montenegro Moreira de Alcântara obtained his Master in Management Systems at Fluminense Federal University, Brazil, in 2012. She also holds two MBA’s: Marketing and Business Management, both in IBMEC, Brazil, in 2001 and 2005 respectively. She has a large experience in Consulting and Management companies, from 2000.

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Roberto Guimarães Pereira obtained his Master in Mechanical Engineering and PhD in Mechanical Engineering from PUC-Rio, Brazil, in 1985 and 1992 respectively. He is an expert in rheological measurements applications to polymers (University of Minnesota, USA, 1996) and expert in rheological behaviour of polymeric liquids with laboratory workshop (Massachusetts Institute of Technology, USA, 1996). He is an Associate Professor in the Mechanical Engineering Department, Professor of the Master and Doctorate Programs in Mechanical Engineering, Professor of the Master in Management Systems, Professor of the Master in Engineering of Bio-systems – all at Fluminense Federal University.

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