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

**Valdir de Jesus Lameira**

Ibmec-RJ,

Av. Presidente Wilson, 118,

CEP 20030-020, Centro, Rio de Janeiro, RJ

E-mail: vlameira@uol.com.br

**Fabiana Montenegro Moreira de Alcântara**

Fluminense Federal University - MSG,

Rua Passo da Pátria 156,

CEP 24210-240, Niterói, RJ, Brazil

E-mail: f.montenegro.moreira@gmail.com

**Dino Vannucci Chiappori**

Fluminense Federal University - MSG

Petróleo Brasileiro S.A. - Petrobras

Rua Henrique Valadares, 28,

CEP 20231-030, Centro, Rio de Janeiro, RJ

E-mail: [dinochiappori@petrobras.com.br](mailto:dinochiappori@petrobras.com.br)

**Roberto Guimarães Pereira\***

Fluminense Federal University - TEM/MSG/PGMEC/PGEB,

Rua Passo da Pátria 156,

CEP 24210-240, Niterói, RJ, Brazil

E-mail: temrobe@vm.uff.br

\*Corresponding author

**Biographical notes:**

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.

Dino Vannucci Chiappori is M.Sc. student and possesses an MBA in Enviroment Business Management Systems by the Engineering Production Department of UFF. Has Postgraduate degree in Strategic Management from UniFOA. Holds a BA in Business Administration from Mackenzie University and is graduated in Mechanical Engineering from Fundação Educacional Inaciana (FEI). Is certified by IEL - IBAPE-RJ as Legal Engineer, Appraiser and Judicial Skill and is Work Safety Engineer by FEI/FUNDACENTRO. Nowadays works in the Sector of Skills and Evaluations of Petrobras, performing evaluation works and skill in equipment and petrochemical products service and distribution bases of Patrobras and related companies.

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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