

# 28<sup>th</sup> European Conference on Operational Research



## **Stream “Long Term Planning in Energy, Environment and Climate” organisé par Nadia Maïzi**

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4 Sessions:

- Energy Efficiency in Buildings, organisée par Gilles Guerassimoff
  - Energy in the context of the Post Paris Climate policy organisée par Sandrine Selosse
  - Decarbonizing electric systems (Part I: System supply and grid) organisée par Edi Assoumou
  - Decarbonizing electric systems (Part II: Demand and behavior) organisée par Edi Assoumou
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### **Session WA-42: Energy Efficiency in Buildings – Gilles Guerassimoff**

Area: Energy, Environment, Natural Resources and Climate

Wednesday, 08:30-10:00

Room: Building WE, 1st floor, Room 120

#### **Improving energy efficiency in the residential and tertiary sector by data analysis**

**Gilles Guerassimoff, MINES ParisTech, CMA**

#### **Energy Efficiency improvement by the way of identification with sensors use**

**Ghassene Jebali, MINES ParisTech, CMA, Thérèse Peffer**

#### **Load curve analysis at households scale for energy efficiency**

**Elise Pupier, WATTGO/, MINES ParisTech, CMA**

### **Session TB-42: Energy in the context of the Post Paris Climate policy – Sandrine Selosse**

Area: Energy, Environment, Natural Resources and Climate

Tuesday, 10:30-12:00

Room: Building WE, 1st floor, Room 120

#### **Biofuel Potential in Mexico: Land Use, Economic and Environmental Effects**

**Hector Nunez, Economics, CIDE**

#### **Towards a 1.5 degree compatible energy system for France**

**Ariane Millot, MINES ParisTech, CMA, Edi Assoumou, MINES ParisTech, CMA, François Briens,  
MINES ParisTech, CMA, Rémy Doudard, MINES ParisTech, CMA, Thomas Le Gallic, MINES ParisTech,  
CMA, Nadia Maïzi, MINES ParisTech, CMA**

**The Post-Paris climate policy and the decarbonisation of the energy system**

Sandrine Selosse, MINES ParisTech, CMA, Nadia Maïzi, MINES ParisTech, CMA

**Session TC-42: Decarbonizing electric systems (Part I: System supply and grid) in stream Long Term Planning in Energy, Environment and Climate – Edi Assoumou**

Area: Energy, Environment, Natural Resources and Climate

Tuesday, 12:30-14:00

Room: Building WE, 1st floor, Room 120

**Robust Optimisation for a Smart Grid**

Aurélien Havel, SNCF/ MINES ParisTech, CMA et Sophie Demasse, MINES ParisTech, CMA

**CHP and electric heater in a highly renewable electricity system**

Gerda Schubert, Energy Policy and Energy Markets, Fraunhofer Institute for Systems and Innovation Research ISI

Benjamin Pfluger, Electricity Markets and Infrastructures, Fraunhofer Institute for Systems and Innovation Research ISI

**Long term transition and balancing for the French power mix**

Edi Assoumou, MINES ParisTech, CMA, Jérôme Gutierrez, MINES ParisTech, CMA et Nadia Maïzi, MINES ParisTech, CMA

**Session TD-42: Decarbonizing electric systems (Part II: Demand and behavior) in stream Long Term Planning in Energy, Environment and Climate – Edi Assoumou**

Area: Energy, Environment, Natural Resources and Climate

Tuesday, 14:30-16:00

Room: Building WE, 1st floor, Room 120

**A Bottom-up and Partial Decomposition Model for Long-term Forecasting**

Fernando Luiz Cyrino Oliveira Industrial Engineering, Pontifical Catholic University of Rio de Janeiro

Bruno Bastos, Electrical Engineering Department, PUC-Rio

Gheisa Esteves, PUC-RIO

Reinaldo Souza, Departamento de Engenharia Elétrica, Pontifícia Universidade Católica do Rio de Janeiro

Rodrigo Calili, Posgraduate Metrology Programme Metrology for Quality and Innovation, PUC-Rio

Paula Maçaira, Industrial, Pontifical Catholic University

Felipe Silva, Electrical Engineering Department, PUC-Rio

Wesley Fagundes, Electric Engineering, PUC-RIO

Danilo Carmo, Electrical Engineering Department, Pontifical Catholic University of Rio de Janeiro

Vanessa Oliveira, Research & Development, Eneva S.A

Plutarcho Lourenco, IEPUC

**A semivectorial bilevel programming approach to model the interaction between electricity retailers and consumers**

**Maria João Alves, Faculty of Economics of University of Coimbra / INESC – Coimbra**

**Carlos Henggeler Antunes, DEEC, University of Coimbra**

**Pedro Carrasqueira, INESC Coimbra**

**Optimal design of tariff structures with discontinuities**

**Kai Helge Becker, Department of Management Science, Strathclyde Business School**

**Alex Bahnisch, Queensland University of Technology**