

## PROGRAM

### Monday 18 June

9:30 *Registration and welcome coffee*

10:00 **Opening of the conference**

E. Hache (EM 2018 scientific correspondent, IFPEN, France)

**Welcome address**

D. Houssin (CEO, IFPEN, France)

10:30-13:00 **SESSION 1: ELECTRICITY MARKETS**

*Chaired by Clément Bonnet (IFPEN)*

**Keynote: Electricity and energy transition**

R. Sioshansi (The Ohio State Univ., USA)

*Coffee break*

**The supply of energy services: do local service providers use DSO or telecommunications network?**

F-N. Bernal, C. Clastres (Univ. Grenoble-Alpes, CNRS, INRA, Grenoble-INP, GAEL, France)

**Identifying electricity demand for residential consumers: a social, economic and technical analysis at the local level**

M. Bordigoni, T. Verderi (Enedis, France)

**On the viability of energy communities**

I. Abada<sup>1</sup>, A. Ehrenmann<sup>1,2</sup>, X. Lambin<sup>3</sup> (1 ENGIE, 2 EPRG, 3 Toulouse School of Economics, France)

**Questions and discussion**

12:45 *Lunch*

## 14:30-17:00 SESSION 2: RAW MATERIALS IN THE ENERGY TRANSITION CONTEXT

*Chaired by Emmanuel Hache (IFPEN)*

### **Keynote: Dynamic modeling and raw materials**

O. Vidal (ISTerre, Univ. Grenoble-Alpes, France)

### **The urban mining as a solution for the supply of critical minerals**

R. Danino-Perraud (BRGM, Lab. d'économie d'Orléans, France)

### **Does lithium really matter for the electrification of the transportation sector?**

E. Hache, G. Seck, M. Simoen (IFPEN, France)

### **Market or not market? Ensuring rare earth security of supply for the defense sector**

A. Palle (IRSEM, France)

### **Copper and the energy transition context**

C. Bonnet, E. Hache, G. Seck, M. Simoen (IFPEN, France)

### ***Questions and discussion***

17:00 *Coffee break*

## 17:30-18:30 SESSION 3: NEW NATIONAL OR INTERNATIONAL ENERGY ISSUES

*Chaired by Benoît Chèze (IFPEN)*

### **Allocating provincial CO<sub>2</sub> quotas for the Chinese national carbon program**

M. Jiang<sup>1</sup>, B. Zhu<sup>1</sup>, J. Chevallier<sup>2,3</sup>, R. Xi<sup>4</sup> (1 Jinan Univ, China ; 2 IPAG Business School, IPAG Lab. ; 3 Univ. Paris 8, LED, France ; 4 Hunan Univ., China)

### **An analysis of NAFTA'S economic relations: emphasis on energy commodities**

E. Vitor, R. Bone (Univ. Federal do Rio de Janeiro, Brazil)

### ***Questions and discussion***

18:30 *End of the presentations – Departure to the cocktail party*  
*Short walk to Café Leffe, 2 Passage d'Arcole, Rueil-Malmaison*

18:45 *Cocktail party at Café Leffe*

## Tuesday 19 June

9:00 *Registration and welcome coffee*

### 9:30-12:00 SESSION 4: ENERGY ECONOMICS METHODOLOGY

*Chaired by Ramteen Sioshansi (The Ohio State Univ.)*

**Keynote: Understanding the future of natural gas infrastructure**

S. Siddiqui (Johns Hopkins Univ., USA)

*Coffee break*

**Reciprocal dumping by locally regulated monopolists**

S. Debia, G. Zaccour (HEC Montréal–GERAD, Canada)

**Second-best pricing when markets are incomplete**

N. Astier (French energy regulatory commission, Toulouse School of Economics, France)

**The marginal cost of demand response in a stochastic environment**

A. Verrier (Chaire European Electricity Markets, Univ. Paris-Dauphine, France)

***Questions and discussion***

12:00 *Lunch*

### 13:20-15:00 SESSION 5: GAS ISSUES

*Chaired by Olivier Massol (IFPEN)*

**The option value of GAZPROM's spare capacity under threat of US LNG on european gas market**

S. Boussena, O. Ionescu, C. Locatelli (UGA, Grenoble INP, CNRS, GAEL, France)

**Identifying inefficiencies in an Entry-Exit gas system**

F. Perrotton (IFPEN, EconomiX, Univ. Paris Nanterre, France)

**The economics of daily natural gas demand in France and in the UK**

A. Thomas<sup>1,2</sup>, O. Massol<sup>3</sup>, B. Sévi<sup>2</sup> (1 IFPEN, 2 LEMNA Nantes Univ., IFP School, France)

**Gas and LNG markets: are we facing a globally integrated market?**

E. Dukhanina<sup>1</sup>, O. Massol<sup>2</sup> (1 Mines ParisTech, 2 IFP School, France)

***Questions and discussion***

15:00 *Coffee break*

## 15:30-16:50 SESSION 6: ELECTRICITY MARKETS

*Chaired by Sébastien Lepaul (EDF)*

**Analysis of a regulation on energy storage investment: the example of the new system operation guideline impact in terms of battery sizing for provision of frequency containment reserve**

A. Rossé, T. Hinchliffe, J. Pierre, K. Lascar, M. Steward (EDF, France)

**Modelling and value of storage for arbitrage and peak capacity in a high renewable european power system**

A. Grandjean, T. Hinchliffe, P. Fourment, P. Verwiebe, V. Silva (EDF R&D, France)

**Pareto-efficiency curves for designing cost-efficient energy policies on the electricity sector**

M. Villavicencio (Chaire European Electricity Markets, LEDa – CGEMP, Univ.Paris-Dauphine, France)

***Questions and discussion***

16:50 ***Closing address by the Organization Committee***  
*E. Hache, B. Chèze (IFPEN), O. Massol (IFP School)*

17:00 ***End of the conference***