



## FORUM

# FSR GLOBAL FORUM - WORLD ENERGY TRANSITION

### Global Forum Directors:

**Jean-Michel Glachant** | Florence School of Regulation

**Ignacio Pérez-Arriaga** | Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University

### Scientific Organisers:

**Swetha RaviKumar Bhagwat** | Florence School of Regulation

**Pia Alessi** | World Access to Modern Energy

**Pradyumna Bhagwat** | Florence School of Regulation

**Samson Yemane Hadush** | Florence School of Regulation

**Ilaria Bellacci** | Florence School of Regulation

**Mara-Nelucia Radulescu** | Florence School of Regulation

Teatro, Emeroteca, Refettorio

Badia Fiesolana, Via dei Roccettini 9 - San Domenico di Fiesole (Fiesole, Florence)

 [@FSR\\_Energy](https://twitter.com/FSR_Energy) [#FSRGlobalForum](https://twitter.com/FSRGlobalForum)

**25-28 MARCH 2019**

## ■ INTRODUCTION

The FSR Global Forum is a 4-day event fostering practice-oriented solutions on key aspects of the world energy transition. It provides a platform for multi-stakeholder engagement to facilitate transnational knowledge exchange.

It brings together 100 representatives (by invitation only) from government agencies, regulatory bodies, energy companies, energy utilities, academia and development organisations from across the world.

The Forum develops around 12 knowledge spaces to facilitate interactive discussions and digitally maps the key insights of each session. The topical issues addressed have a special focus on Latin America, Africa and Asia.



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## ■ PROGRAMME

### 25 MARCH

### DAY 1

**WELCOME DINNER** - Sala della Borsa, Camera di Commercio, Piazza Mentana 1, 50122 Firenze

19.00 - 20.00 Registrations and Welcome Aperitivo

20.00 - 22.00 Welcome Dinner with welcome addresses and testing of the forum app

**Jean-Michel Glachant** | Florence School of Regulation

**Swetha RaviKumar Bhagwat** | Florence School of Regulation

**Jessica Dabrowski** | Florence School of Regulation

**Ignacio Pérez-Arriaga** | Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University

### 26 MARCH

### DAY 2

08.30 - 09.00:  
SalaTeatro Opening Ceremony

Welcome

**Jean-Michel Glachant** | Florence School of Regulation

**Leigh Hancher** | Florence School of Regulation

Key note speech

**Daniel Schmerler** | Peruvian Regulatory Agency for Investment in Energy and Mining

**Ignacio Pérez-Arriaga** | Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University

09.00 - 09.15 Forum app setup

### ----- PARALLEL SESSIONS -----

09.15 - 11.00:  
Refettorio Knowledge Space 1A Removing barriers to massive electrification business models

Chair:

**Anoop Singh** | Indian Institute of Technology Kanpur (2')

Motivator:

**Ignacio Pérez-Arriaga** | Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University (15')

FSR Presenter: **Ignacio Pérez-Arriaga** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

09.15 - 11.00:  
Emeroteca Knowledge Space 1B Role of regulated electricity tariffs in competitive retail markets

Chair:

**Leigh Hancher** | Florence School of Regulation (2')

Motivator:

**Jorge Vasconcelos** | Florence School of Regulation, NEWES (10')

FSR Presenter: **Pradyumna Bhagwat** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

11.00 - 11.30: Coffee Break in Lower Loggia

----- **PARALLEL SESSIONS** -----

11.30 - 13.00: Knowledge Space 2A A "utility-like" approach to large-scale electrification:  
Refettorio electricity company of the future

Chair:

**Kristina Skierka** | Power for All (2')

Motivator:

**Ganesh Das** | TATA Power DDL (10')

FSR Presenter: **Ignacio Pérez-Arriaga** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

11.30 - 13.00: Knowledge Space 2B Unlocking the value of storage in market-based power  
Emeroteca systems

Chair:

**Robert Stoner** | Massachusetts Institute of Technology (MIT) (2')

Motivator:

**Pablo Rodilla Rodriguez** | Comillas Pontifical University (10')

FSR Presenter: **Pradyumna Bhagwat** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

13.00 - 14.30 Lunch in Sala Buonsanti and Sala Rossa

13.30 - 14.00: Side Presentation on 'Utilities 2.0'  
SalaCapitolo

**Kristina Skierka** | Power for All

(15' presentation, 15' discussion)

----- **PARALLEL SESSIONS** -----

- 14.30 - 16.00:  
Emeroteca
- Knowledge Space 3A Incentivizing the development of network resilience  
Chair:  
**Daniel Schmerler** | Peruvian Regulatory Agency for Investment in Energy and Mining (2')  
Motivator:  
**Piero Pelizzaro** | Municipality City of Milan (10')  
Presenter: **Carlo Papa** | Enel Foundation (5')  
Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')
- 14.30 - 16.00:  
Refettorio
- Knowledge Space 3B Regulatory challenges of distribution networks with distributed resources  
Chair:  
**Annegret Gröbel** | Bundesnetzagentur (2')  
Motivator:  
**Julian Barquin** | ENDESA (10')  
FSR Presenter: **Pradyumna Bhagwat** (5')  
Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')
- 16.00 - 16.30:
- Coffee Break in Lower Loggia
- 16.30 - 17.00
- Collective mapping of the key insights from Day 2  
FSR Presenter: **Samson Yemane Hadush**
- 17.00 - 18.00: TEATRO - COUNTRY INSIGHTS & LAUNCH EVENT**
- FSR Facilitator: **Athir Nouicer**
- 17.00 - 17.30:
- Furthering energy transition through regional cooperation in the Indian Ocean Commission Member states  
**Véronique Espitaler-Noël** | Chargée de Mission IOC Secretariat  
**Mohammed Shamshir Mukoon** | Central Electricity Board Mauritius  
**Mamy Razanajatovo** | Seychelles Energy Commission
- 17.30 - 17.40:
- Country Insight Ethiopia  
**Asfaw Haileslassie Tesfay** | Institute of Energy Mekelle University
- 17.40 - 17.50:
- Insights Central Asia with a focus on Kazakhstan  
**Marat Yelibayev** | European Bank for Reconstruction and Development
- 17.50 - 18.00
- Launch of EU Energy Transition Online Training Course  
**Arjun Patel** | ENTSO-E

18.00 - 18.45: Aperitivo in Lower Loggia

18.45 - 20.30 Florence sightseeing  
(At 18.45 bus transfer to the city centre at Badia main entrance)

**27 MARCH DAY 3**

----- **PARALLEL SESSIONS** -----

9.00 - 10.30: Knowledge Space 4A Establishing priorities for regional power market  
Refettorio integration in emerging economies

Chair:

**Honoré Djamah Segui Bogler** | ECOWAS Regional Electricity Regulatory Authority Ghana (2')

Motivator:

**Alberto Pototschnig** | Agency for Cooperation of Energy Regulators; Florence School of Regulation (10')

FSR Presenter: **Samson Yemane Hadush** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

9.00 - 10.30: Knowledge Space 4B The role of indicative planning in the ongoing economy  
Emeroteca electrification process

Chair:

**Giuseppe Montesano** | Enel Foundation (2')

Motivator:

**Szilvia Doczi** | International Energy Agency (10')

FSR Presenter: **Swetha RaviKumar Bhagwat** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

10.30 - 11.00 Coffee Break in Lower Loggia

----- **PARALLEL SESSIONS** -----

11.00 - 12.30: Knowledge Space 5A Enhancing the effectiveness of regional power markets  
Emeroteca institutions in emerging economies

Chair:

**Igancio Pérez-Arriaga** | Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University (2')

Motivator:

**Pradeep Pujari** | Central Electricity Regulatory Commission India (10')

FSR Presenter: **Samson Yemane Hadush** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

11.00 - 12.30:  
Refettorio

Knowledge Space 5B Unlocking the potential of electric vehicles in the power system

Chair:

**Alberto Pototschnig** | Agency for Cooperation of Energy Regulators; Florence School of Regulation (2')

Motivator:

**Edwin Edelenbos** | Netbeheer Netherland (10')

FSR Presenter: **Swetha RaviKumar Bhagwat** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

12.30 - 14.00

Lunch in Sala Buonsanti and Sala Rossa

----- **PARALLEL SESSIONS** -----

14.00 - 15.30:  
Emeroteca

Knowledge Space 6A Transitioning to a more efficient and competitive power market in emerging economies

Chair:

**Anton Eberhard** | University of Cape Town (2')

Motivator:

**Cathy Oxby** | Africa GreenCo (10')

FSR Presenter: **Samson Yemane Hadush** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

14.00 - 15.30:  
Refettorio

Knowledge Space 6B Challenges and opportunities of digitalization for the electricity sector

Chair:

**Jean-Michel Glachant** | Florence School of Regulation (2')

Motivator:

**Emeline Spire** | ELIA System Operator (10')

FSR Presenter: **Nicolò Rossetto** (5')

Discussion (45') - Table summaries (15') - Session voting (5') - Conclusion by chair (3')

15.30 - 16.00:

Coffee Break in Lower Loggia

16.00 - 16.30: SalaTeatro Collective mapping of the key insights from Day 3 and forum level  
FSR Presenter: **Pradyumna Bhagwat**

### **16.30 - 17.30: TEATRO - COUNTRY INSIGHTS & LAUNCH EVENT**

Facilitator: **Pia Alessi** | World Access to Modern Energy

16.30 - 16.50:

Case Study India: Sun for Farmers  
**Anand Kumar** | Gujarat Electricity Regulatory Commission

16.50 - 17.10:

Case Study Brazil: Brazilian Insights  
**Tiago de Barros Correia** | RegE Barros Correia Advisers

17.10 - 17.20:

Launch of Regulatory Delivery Online Training Course  
**Jorge Vasconcelos** | Florence School of Regulation & NEWES  
**Jean-Michel-Glachant** | Florence School of Regulation

17.30 - 18.30:

Aperitivo in Lower Loggia  
*(At 18.30 bus transfer to the city centre at Badia main entrance)*

**28 MARCH**

**DAY 4**

#### **----- PARALLEL SESSIONS -----**

### **09.00 - 10.30: EMEROTECA - ROUND TABLE ON JOURNEY TOWARDS A DECARBONISED ENERGY SECTOR: THE "RENEWABLE GASES"**

Chair: **Andris Piebalgs** | Florence School of Regulation

9.00 - 09.15

Welcome & setting the scene

- What is renewable and low-carbon gas? Let's start from the definition
- The EU debate

**Ilaria Conti** | Florence School of Regulation

9.15 - 9.30

Key opportunities and challenges for renewable and low-carbon gas  
**Marcus Newborough** | Eurogas

9.30 - 10.00

How can gas infrastructure operators be enablers of decarbonization? Showcase of innovative gas TSO and SSO projects in Europe

**Perizat Ybrayeva** | Gas Infrastructure Europe

10.00 - 10.25

Discussion

10.25 -10.30 Conclusions by Chair

**09.00 - 10.30: TEATRO - ROUND TABLE ON THE ROLE OF DISCOS IN THE ENERGY TRANSITION**

Chair: **Roberto Zangrandi** | EDSO

09.00 - 09.05 Opening by the Chair

**Roberto Zangrandi** | EDSO

*Session A: the new role of DSOs*

09.05 - 09.15: Intervention 1

**Viviana Vitto** | Enel

09.15 - 09.25 Intervention 2

**Knud Pedersen** | Ørsted; EURELECTRIC Distribution & Market Facilitation Committee

09.25 - 09.45 Discussions

*Session B: New business models for distribution in emerging economies*

09.45 - 09.55 Intervention 1

**Ganesh Das** | TataPower DDL

09.55 - 10.05 Intervention 2

**Maurits Paath** | Indonesia State Electricity Company

10.05 - 10.25 Discussions

10.25 - 10.30 Conclusion by the Chair

10.30 - 11.00 Coffee Break in Lower Loggia

----- **PARALLEL SESSIONS** -----

**11.00 - 12.30: TEATRO - ROUND TABLE ON MULTILATERAL INSTITUTIONAL INITIATIVES**

Chair: **Jean- Michel Glachant** | Florence School of Regulation

11.00 - 11.05 Opening by the Chair

**Jean- Michel Glachant** | Florence School of Regulation

11.05 - 11.15 Intervention 1

**Megan Richards** | DG ENER European Commission

11.15 - 11.25 Intervention 2



	<b>Georgios Pantoulis</b>   DG DEVCO European Commission
11.25 - 11.40	Intervention 3 <b>Salvatore Vinci</b>   IRENA
11.40 - 11.55	Intervention 4 <b>Anthony Monganeli Mehlwana</b>   UN Economic Commission for Africa
11.55 - 12.25:	Discussions
12.25 - 12.30	Conclusion by the Chair

### **11.00 - 12.30: EMEROTECA - ROUND TABLE ON ROLE OF POWER EXCHANGES IN ORGANISING FLEXIBILITY PLATFORMS**

	Chair: <b>Rajesh Mediratta</b>   Indian Energy Exchange
11.00 - 11.05	Opening by the Chair <b>Rajesh Mediratta</b>   Indian Energy Exchange
11.05 - 11.20	Intervention 1 <b>Stefano Alaimo</b>   GME
11.20 - 11.35	Intervention 2 <b>Philippe Vassilopoulos</b>   EPEX SPOT
11.35 - 11.50	Intervention 3 <b>Enno Böttcher</b>   NODES AS
11.50 - 12.05	Intervention 4 <b>Pedro Basagoiti</b>   OMIE
12.05 - 12.25	Discussions
12.25 - 12.30	Conclusion by the Chair

### **12.30 -13.00: TEATRO - CLOSING CEREMONY**

	<b>Jean-Michel Glachant</b>   Florence School of Regulation <b>Ignacio Perez-Arriaga</b>   Florence School of Regulation, Massachusetts Institute of Technology, Comillas Pontifical University <b>Giuseppe Montesano</b>   Enel Foundation <b>Swetha RaviKumar Bhagwat</b>   Florence School of Regulation
13.00 - 14.00	Farwell Lunch in Lower Loggia <i>(At 14.00 bus transfer to the airport and train station)</i>