

FSR Annual Sustainability Conference

Greening Infrastructures

22 - 23 June, 2022

Day 1: Online | Day 2: Refettorio - Badia Fiesolana, Via dei Roccettini 9 - San Domenico di Fiesole (Fiesole, Florence)

Scientific Organisers: Simone Borghesi, Matthias Finger, Jean-Michel Glachant, Juan Montero, Alberto Pototschnig | European University Institute (EUI)

Event Coordinator: Teodora Serafimova | European University Institute (EUI)

Introduction

Against the backdrop of the [European Green Deal](#) and the recently published '[Fit for 55](#)' Package, the basic infrastructures will have to become more sustainable over the course of their entire lifecycles, i.e., from design to building, maintenance, operations, and eventual decommissioning. Digitalisation, of course, will have a key role to play in advancing this objective, for instance, by optimising capacity utilisation, thus reducing needs for physical infrastructure expansion.

While rendering infrastructures climate-proof will take different forms across the various network industries, all of them will have to confront a set of critical questions pertaining to regulatory policy, financing, and taxation, among others. In view of this, the [first edition of the FSR Sustainability Conference](#) will tackle these questions with respect to transport and energy infrastructures.

The first day of the conference (22 June), to be held fully online, will be devoted to the presentation and discussion of 12 academic papers. The second day (23 June), which is planned as a physical event at the premises of the European University Institute, will take the form of a Florence Policy Forum, bringing together high-level officials from the European Commission, regulators, industry experts, and renowned academics.



Programme

- 22 June** **Welcome and introduction of the 1st FSR Sustainability Conference**
- 09:00 - 09:30 **Erik Jones** | EUI
Jean-Michel Glachant | EUI
- Moderator of all morning sessions:
Matthias Finger | EUI
- 09:30 - 10:00 *Ovaere, M., and Proost S.: "Cost-effective reduction of fossil energy use in the European transport sector"*
- Presenter: (15 mins)
Marten Ovaere | Department of Economics at Ghent University
- Discussant: (15 mins)
Matthias Finger | EUI
- 10:00 - 10:05 *Break*
- 10:05 - 10:35 *Klaaßen, L., and Steffen, B.: "Fit for 55? Contrasting green infrastructure investment needs in Europe with the EU's sustainable finance strategy"*
- Presenter: (15 mins)
Lena Klaaßen | Climate Finance and Policy Group, ETH Zurich
- Discussant: (15 mins)
Juan Montero | EUI
- 10:35 - 10:40 *Break*
- 10:40 - 11:10 *Major, M., and Massuma, M.: "Infrastructure investment for sustainable, low carbon transport services in the EU"*
- Presenters: (15 mins)
Mark Major | Environmental Defence Fund Europe, and **Manassé Massuama** | Transport and Environment
- Discussant: (15 mins)
Matthias Finger | EUI
- 11:10 - 11:15 *Break*
- 11:15 - 11:45 *Lanz, L., Noll, B., Schmidt, T. S., and Steffen, B.: "Reducing the levelized cost of electric vehicle charging infrastructure - Comparative policy options to accelerate the low-carbon mobility transition in Europe"*
- Presenter: (15 mins)
Bessie Noll | Swiss Federal Institute of Technology, ETH Zurich
- Discussant: (15 mins)
Pradyumna Bhagwat | bp
- 11:45 - 11:50 *Break*
- 11:50 - 12:20 *Campos de Andrade, A. L.: "Decarbonisation: climate governance challenges for policies, plans,*

and projects in the Brazilian transportation sector”

Presenter: (15 mins)

André Luiz Campos de Andrade | University of Potsdam

Discussant: (15 mins)

Matthias Finger | EUI

12:20 - 14:00 *Lunch break*

Moderator of all afternoon sessions:

Alberto Pototschnig | EUI

14:00 - 14:30 *Astier, N., Rajagopal, R., and Wolak, F. A.: “Can distributed intermittent renewables generation reduce future grid investments? Evidence from France”*

Presenter: (15 mins)

Nicolas Astier | Paris School of Economics

Discussant: (15 mins)

Tim Schittekatte | MIT Energy Initiative and EUI

14:30- 14:35 *Break*

14:35 - 15:05 *Ruhnau, O., and Schiele J.: “Flexible green hydrogen: a win-win for economics and sustainability”*

Presenter: (15 mins)

Oliver Ruhnau | Hertie School

Discussant: (15 mins)

Alberto Pototschnig | EUI

15:05 - 15:10 *Break*

15:10 - 15:40 *Nascimento Souza, M., Karlein, J., Caterino Yáñez, C., Luxa, A., Jöres, N., and Lichtenberg, G.: “Influence of full load hour regulation on the LCOH and hybrid energy system sizing in Germany”*

Presenter: (15 mins)

Marina Nascimento Souza | Fraunhofer IWES

Discussant: (15 mins)

Oliver Ruhnau | Hertie School

15:40 - 15:45 *Break*

15:45 - 16:15 *Lauri, C.: “Recovery and Resilience of the Energy Sector through Energy Communities. Promises and Perils”*

Presenter: (15 mins)

Cristiana Lauri | EUI

Discussant: (15 mins)

Viola Cappelli | Scuola Superiore Sant’Anna

16:15 - 16:20 *Break*

- 16:20 - 16:50 *Chu Donatus, I., Semassou, G. C., and Ahouansou, R.: "Sustainability of Renewable Energy Electrification Projects in Cameroon: Technical, Institutional and Policy Perspective"*
- Presenter: (15 mins)
Iweh Chu Donatus | University of Abomey-Calavi
- Discussant: (15 mins)
Swetha Ravi Kumar | EUI
- 16:50 - 16:55 *Break*
- 16:55 - 17:25 *Cardinale, R.: "From natural gas to hydrogen: Upgrading existing transnational energy infrastructure connecting North Africa to Europe"*
- Presenter: (15 mins)
Roberto Cardinale | Department of Economics, The American University in Cairo
- Discussant (15 mins)
Athir Nouicer | EUI
- 17:35 - 17:30 *Break*
- 17:30 - 18:00 *Daly, A., Erdogan, S. E., Gill, G., Tetley-Brown, L., and Wallis, T.: "Decarbonisation through Digitalisation? The Benefits and Challenges of Digitalising (Renewable) Energy Infrastructures in Scotland"*
- Presenter: (15 mins)
Angela Daly | University of Dundee
- Discussant (15 mins)
Valerie Reif | EUI

23 June

08:45 - 09:00 *Welcome Coffee*

09:00 - 09:30 **Setting the scene**

Welcome remarks

Renaud Dehousse | EUI

Key challenges ahead for the greening of energy and transport infrastructures

Jean-Michel Glachant | EUI

Matthias Finger | EUI

Session A: Infrastructure planning for sector integration and circular economy

09:30 - 11:00 *Introductory remarks (10 mins)*

Alberto Pototschnig | EUI

Keynote speech (10 mins)

Mechthild Wördsdörfer | DG ENER, European Commission

Introductory input to the panel (10 mins)

Can distributed intermittent renewables generation reduce future grid investments? Evidence from France

Nicolas Astier | Paris School of Economics

*Panel discussion moderated by **Alberto Pototschnig** | EUI (30 mins)*

Sonya Twohig | ENTSO-E

Leonardo Meeus | EUI

Annegret Groebel | German Regulatory Authority for Electricity, Gas, Telecommunications, Post and Railway (BNetzA)

Lorenzo Vannacci | Ferrovie dello Stato Italiane S.p.A.

Open discussion (30 mins)

11:00 - 11:15 *Coffee break*

Session B: Internalising externalities in network industries

11:15 - 12:45 *Introductory remarks (10 mins)*

Jos Delbeke | EUI and KU Leuven

Introductory input to the panel (10 mins)

Fit for 55? Contrasting green infrastructure investment needs in Europe with the EU's sustainable finance strategy

Lena Klaaßen | Climate Finance and Policy Group, ETH Zurich

*Panel discussion moderated by **Jos Delbeke** (40 mins)*

Ivana Paniccia | Italian Transport Regulation Authority

Edwin Edelenbos | Netbeheer Nederland

David Chiaramonti | Polytechnic of Turin

Jacek Hutyra | Orange Poland

Open discussion (30 mins)

12:45 - 13:45 *Lunch break*

Session C: Regulating networks to face the many challenges of climate change

13:45 - 15:15 *Introductory speech (10 mins)*

Simone Borghesi | EUI

Introductory input to the panel (10 mins)

Sustainability of Renewable Energy Electrification Projects in Cameroon: Technical, Institutional and Policy Perspective

Iweh Chu Donatus | University of Abomey-Calavi

*Panel discussion moderated by **Simone Borghesi** (40 mins)*

Stephan Kamphues | Former President of ENTSO-G

Montserrat Barriga | European Regions Airline Association

Duška Godina | Slovenia's Energy Agency

Paul Ekins | Faculty of the Built Environment, UCL

Open discussion (30 mins)

15:15 - 15:30 *Coffee break*

15:30 - 16:15 **Announcements and Concluding Session**

Announcement of the Best Paper Award

Matthias Finger | EUI

Announcement of the Ana Aguado Scholarship Award

Alberto Pototschnig | EUI

Concluding Remarks

Leonardo Meeus | EUI