

## Energy systems and markets

### Topics

- Market design
- Operations and investment
- Risk modelling
- Pricing
- Methods: Computational equilibrium analysis, stochastic optimization, deterministic optimization

### Tutorials by

Andy Philpott, University of Auckland  
Stein W. Wallace, NHH

### Lectures by

Mette Bjørndal, NHH  
Endre Bjørndal, NHH  
Stein-Erik Fleten, NTNU  
Abdel Lisser, Université Paris Sud  
Paolo Pisciella, University of Bergamo  
Anthony Papavasiliou, Université catholique de Louvain  
Georg Pflug, University of Vienna  
Claudia Sagastizabal, IMPA  
Leif Sandal, NHH  
Afzal Siddiqui, UCL  
Yves Smeers, Université catholique de Louvain  
Asgeir Tomasgard, NTNU



### Registration

Limited number of places:

- A) PhD students: 450 euro  
Shared double room and 3 meals per day included
- B) Other participants: 750 euro  
Shared double room and 3 meals per day included

Please register by sending an email to us indicating category as soon as possible to: [winter@iot.ntnu.no](mailto:winter@iot.ntnu.no). We will then send confirmation and payment information.



## Location and arrival

Kvitfjell is a skiresort north of Lillehammer in Norway. It is a former olympic site. The main airport used to get to Kvitfjell is Gardermoen (Oslo).

The best way to arrive at Kvitfjell will be with train or by bus.

## Schedule

Arrival: Sunday 22nd: Welcome reception at 19.00 and dinner starting at 20.00.

Lectures: 23rd-27th

- Morning session 8.15-11.15
- Break (skiing or other activities)
- Afternoon session 15.30-19.00
- Dinner 20.00

The winter school ends before lunch on March 28th.

## Credits and publication

There will be in total 30 hours of lectures in the winter school. We will issue certificates verifying participation and work load of 2.5 ECTS credits.



## Organizers

Stein-Erik Fleten, NTNU  
 Asgeir Tomasgard, NTNU  
 Mette Bjørndal, NHH  
 Leif Sandal, NHH

For more information contact us at:  
[winter@iot.ntnu.no](mailto:winter@iot.ntnu.no)

