

HYBRID TRAINING

Training on Cybersecurity: Risk Management and Preparedness, Legal and Policy Developments

31 May - 2 June



COURSE PROGRAMME

CEER has arranged an annual training on cybersecurity for NRAs since 2016. The goal is not only to learn about security issues and solutions and the role of National Regulatory Authorities on Energy (NRAs). We also provide a platform to let NRAs staff on management level with interest for cybersecurity and those who are working with cybersecurity for NRAs, either from a technical or legal angle, to connect and create useful relationships.

With increased digitalization comes increased cybersecurity risk. Processes such as producing and distributing energy is becoming digitally dependent and we connect operational technology to digital networks to ease process control. As a consequence, we become vulnerable to cyberattacks where the attackers may be located and be hiding anywhere in the world. While before, personnel performing physical sabotage may be found and arrested, we may never know who broke into our digital systems and shut down operations remotely. The lack of accountability for digital attackers, and the increased use of technology that can be attacked, makes important processes such as energy supply prominent targets.

One typical reason for attacking the energy sector may be financial. One example is the Colonial Pipeline attack in 2021, where data was stolen and encrypted. According to internet sources, Colonial Pipeline decided to pay a ransom of nearly \$ 5 million to stop the attackers from spreading their data and being able to resume fuel distribution. Another reason for cyberattacks may be connected to nation state conflicts. A well-known example is the cyberattacks on Ukraine electricity distribution in 2015 and 2016, both leading to blackouts for hours. The latter reason may be more actual than ever, after the last development in Ukraine.

Everybody using technology must prepare for this new reality, including NRAs. NRAs must understand their roles and responsibilities and take the necessary steps to monitor cyber-risk preparedness in the sector and add measures to improve cybersecurity where necessary. The role of NRAs has become clearer during the work with a network code on cybersecurity. NRAs has been involved in the development of this piece of legislation, especially through the Agency for the Cooperation of Energy Regulators (ACER).

This CEER training course targets NRA staff on management level with interest for cybersecurity and those who are working with cybersecurity for NRAs, either from a technical or legal angle. The course aim to provide an overview of the latest policy developments in cybersecurity and practical experiences on the technical aspects of cybersecurity risk management and preparedness in Europe. The programme will also explain the links between cybersecurity and data management and privacy and how cybersecurity could be enhanced to ensure data protection and privacy.

This training will be a hybrid event, where participants may decide themselves if they wish to join in person or online. We look forward to seeing you 31. May – 2 June.

Tuesday, 31 May 2022
10:00-17:00 CET

10:00 - 10:20 Opening remarks and round-table introduction of the participants

Catharina Hovind and Øyvind Toftegaard, Course Directors

10:20 - 10:30 Introducing the participants – platform orientation

Giulia Carpentieri CEER Programme and Training Coordinator

SESSION 1 UNDERSTANDING CYBERSECURITY RISK

10:30 - 11:15 Industry example: Cybersecurity breach

Expert TBC

11:15 – 11:30 Coffee break

11:30 – 12:15 Wind generator risk (and other research)

Sujeet Sheno, University of Tulsa – Onsite

12:15 – 13:15 Lunch break

SESSION 2 RISK MANAGEMENT

13:15 – 13:45 Introduction to cyber security and risk management

Renate Verheijen, ENISA – Online

13:45 – 14:15 Role of National Competent Authority on Cybersecurity

Nicolas Broutin, ANSSI TBC – Onsite

14:15 – 14:25 Coffee break

14:25 – 14:55 NRAs responsibility and example of work on cybersecurity

Expert TBC

14:55 – 15:25 Industry example of DSO work on reducing cybersecurity risk

Expert TBC

15:25 – 15:30 Short Break

15:30 – 16:00 Discussion panel

Moderator Øyvind Toftegaard, Course director

Panel: Sujeet Sheno – Expert TBC - Expert TBC - Expert TBC BNetzA

16:00 -16:10 Final remarks and wrap up of Day 1

Catharina Hovind and Øyvind Toftegaard, Course Directors

16:10 – 17:10 Reception drinks at the CEER office – all participants and lecturers welcome!

- END OF DAY 1 -

**Wednesday, 1 June 2022
09:00-16:00 CET**

SESSION 3 INTRO TO REGULATING ENERGY CYBERSECURITY

9:00 – 9:30 Orchestrating cybersecurity regulation in Europe

Michaela Kollau, European Commission – Onsite

9:30 - 10:00 Implementation of EU regulation in national cybersecurity legislation

Anders Åhlgren, Jönköping Energi & EU DSO - Onsite

10:00 – 10:10 Coffee Break

10:10 – 10:40 National risk preparedness plan for the electricity sector

Luka Strnad, ELES – Onsite TBC

10:40 – 11:10 Digital Act

Expert TBC

11:10 – 11:15 Short Break

11:15 – 11:30 Cybersecurity Landscape of European Energy Markets

Leontini Kaffentzaki (Online) and Kostas Prosmirellis (Onsite),
Regulatory Authority for Energy (RAE), Directorate of European and
International Affairs – Onsite

11:30 – 12:00 Effect of cybersecurity legislation on maturity level

Jon-Martin Storm, Norwegian Water Resources and Energy Directorate –
Onsite

12:00 – 13:00 Lunch break

SESSION 4 CYBERSECURITY FOR PIPELINES AND EXERCISE

13:00 – 13:45 Gas pipeline cybersecurity risk

John Ransom, CISA – Onsite TBC

13:45 – 13:55 Coffee break

13:55 – 15:50 Practical Exercise

Course Director Øyvind Toftegaard

15:50 - 16:00 Final remarks and wrap up of Day 2

Catharina Hovind and Øyvind Toftegaard

16:00 – 18:00 Relax and freshen up break before dinner

18:00 – 20:00 Dinner reservation – all participants and trainers welcome!

- END OF DAY 2 -

**Thursday, 2 June 2022
09:00-15:00 CET**

SESSION 5 PRIVACY AND DATA PROTECTION

9:00 – 9:45 Why is GDPR important?

Expert TBC

9:45 - 10:00 Coffee Break

10:00 – 10:45 Regulation for a privacy preserving smart grid

Staal Vinterbro, NTNU - Online

10:45 – 11.00 Coffee break

11.00 – 11.30 The role of NRAs regarding privacy protection

Expert TBC

11.30 -12:30 Lunch break

SESSION 6 REGULATING CYBERSECURITY

12:30 -13:30 The development of a network code on cybersecurity

Stefano Bracco, ACER - Online

13:30 –13:45 Coffee break

13:45 –14:15 NIS2 directive – What does it mean and what is the process

Boryana Hristova, European Commission - Onsite

14:15 – 14:45 Developing a cybersecurity strategy for NRAs

Lynn Costantini, Naruc - Online

14:45 – 15:00 Final remarks and wrap up of Day 3

Catharina Hovind and Øyvind Toftegaard

- END OF DAY 3 -