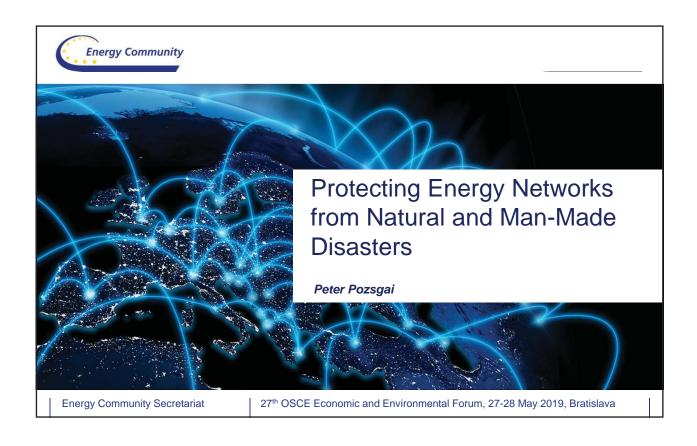
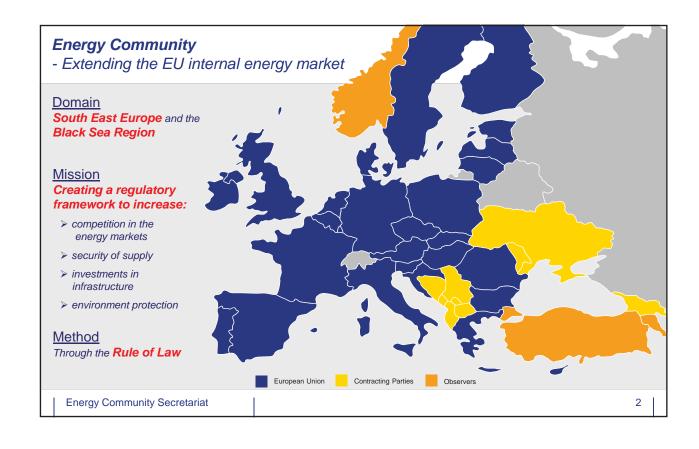
The OSCE Secretariat bears no responsibility for the content of this document and circulates it without altering its content. The distribution by OSCE Conference Services of this document is without prejudice to OSCE decisions, as set out in documents agreed by OSCE participating States.

EEF.IO/5/19 31 May 2019

ENGLISH only





Disasters and their impact on energy security

Hazards and threats

- Direct impact:
 - √ disruption of access to energy (sources);
 - ✓ pollution;
 - √ loss of human lives;
 - ✓ other indirect impacts.

Risks – concentrated on facilities and infrastructure – possible to tackle with direct and indirect responses (preparedness vs restructuring the energy networks)







Energy Community Secretariat

3

Disasters and their impact on energy security

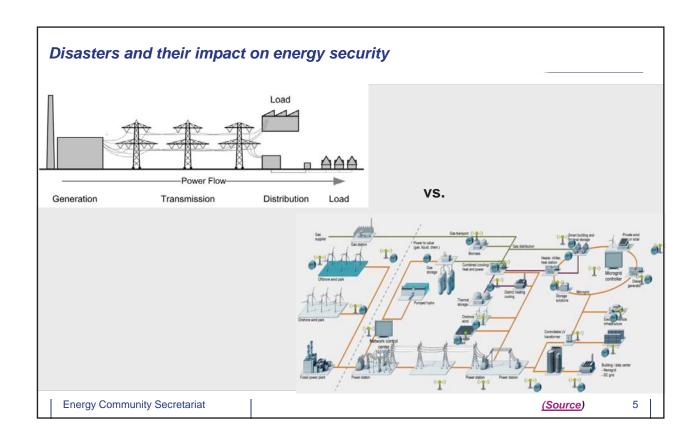
Mitigation/prevention strategies

Aim: to reduce the <u>likelihood</u> or the <u>impact</u> of the accident

- Direct: tackles how to "handle" the situation in case an accident happens
 - ✓ Risk Assessments, Preventive and Emergency Plans, Business Continuity measures;
 - ✓ Safety standards, protocols;
 - ✓ Backup capacities, N-1 etc.
- Indirect: focuses on how to diminish the risk, how to avoid that the event can have devastating effects
 - ✓ Diversification of supplies (source, route, counterparty etc.);
 - ✓ Decentralized production (mostly relevant for electricity);
 - ✓ Meshed network;
 - ✓ Functioning market with multiple market players.

Energy Community Secretariat

4



New technologies – opportunities and challenges

Going digital

The quest to avoid "traditional" disasters brought about new threats

- Complex systems, automated processes, less human control, no "key actor" to do damage control;
- High-level of connectivity:
 - Expanding scope of objects connected to the Net;
 - Smart meters, smart homes;
 - Electromobility;
 - IT ~ OT.
- Hardware producers not yet prepared to provide state-of-the-art secure solutions;
- Lack of awareness human negligence.

Energy Community Secretariat

U

Increasing resilience Only a coordinated action can be effective **Stocktaking Analysis** Recommendation Mapping Legal and For a common regulatory gaps, currently minimum framework, existing divergence in joint bodies, crossnational border cooperation measures, standards, standards and mechanisms, cooperation, procedures. education and training projects and Assessment of programmes, aligned certification schemes weaknesses. necessary and standards and a minimum roadmap for measures to implementation enhance security.

Keep up the work

Energy Community Secretariat

- Overall higher level of preparedness vis-à-vis "traditional" threats BUT!;
- These threats are evolving / transforming, which increases exposure (climate related threats);
- New hazards appear (mainly due to digitalization);
- Must continue addressing new challenges.

Energy Community Secretariat

8

