

Study on Cybersecurity in the energy sector of the Energy Community

Introduction

Blueprint Energy Solutions GmbH

Presenter:
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Agenda

1. Introduction
2. Overview of project objectives
3. Cybersecurity in energy on European agenda
4. Next steps

INTRODUCTION

Cyber resilience is a challenge for all organisations, but, due to its vital role as a societal backbone, it is of particular importance for the electricity ecosystem.

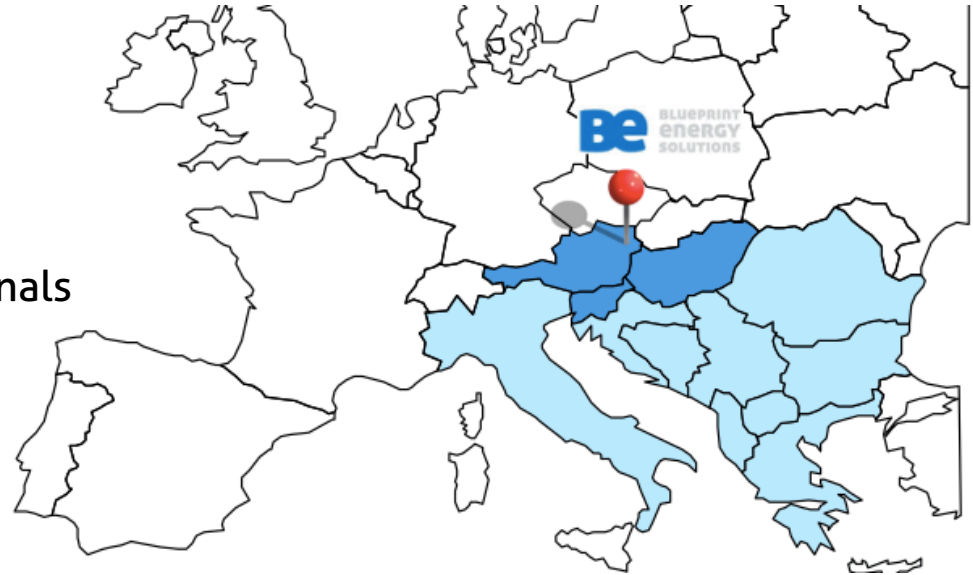
CYBERSECURITY IS NOW CONSIDERED AMONG THE HIGHEST PRIORITIES FOR THE EUROPEAN UNION.

ABOUT US – BLUEPRINT ENERGY SOLUTIONS

Established in **Vienna, Austria**

by several seasoned industry professionals

and entrepreneurs.



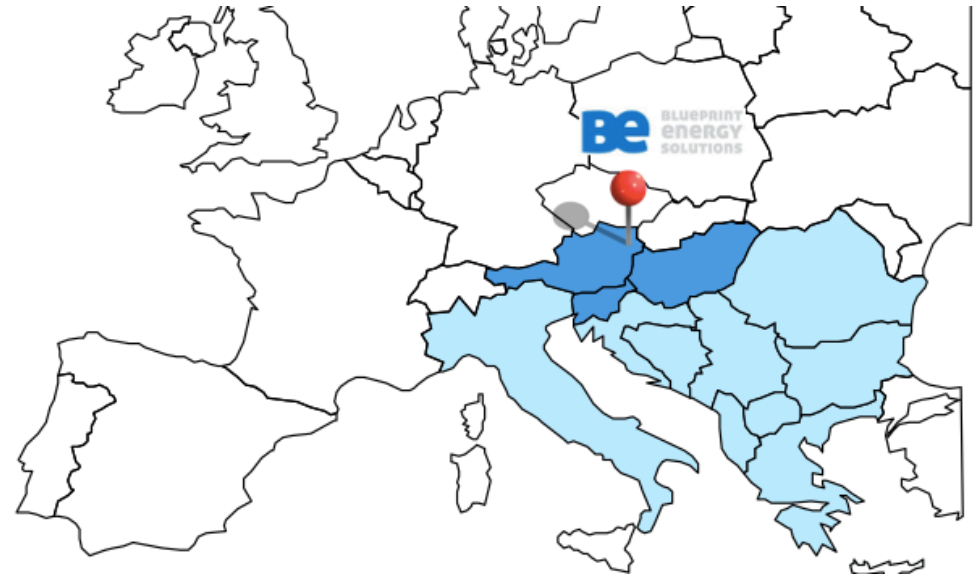
Counts today 20+ experienced seniors from the industry.

We aim to be the partner of choice for our clients in the **Energy field**.

Blueprint aims to help clients across Europe in implementing new or optimizing existing business capabilities relating to **PEOPLE, PROCESSES AND TECHNOLOGY**.

ABOUT US – THE Team

- Elena Boskov-Kovacs
- Ales Hvala
- Dr. Ferenc Suba
- Peter Grasselli
- Szabolcs Hallai



CONSULTING PORTFOLIO

Blueprint Energy Solutions

Energy Utilities

Electricity DSOs

Electricity TSOs

Gas & Water

New Energy Consumer

Generation (*)

Energy Advisory

IT Strategy, Roadmap

Transformation

New Business

PoV, PoC, Workshops

Energy Markets

Market Analysis

Policy & Regulation

CO2 footprint

Industry Technology

Cyber Security

Comms and Infrastructure

IT-OT integration

EAM, SCADA, ADMS, DER...

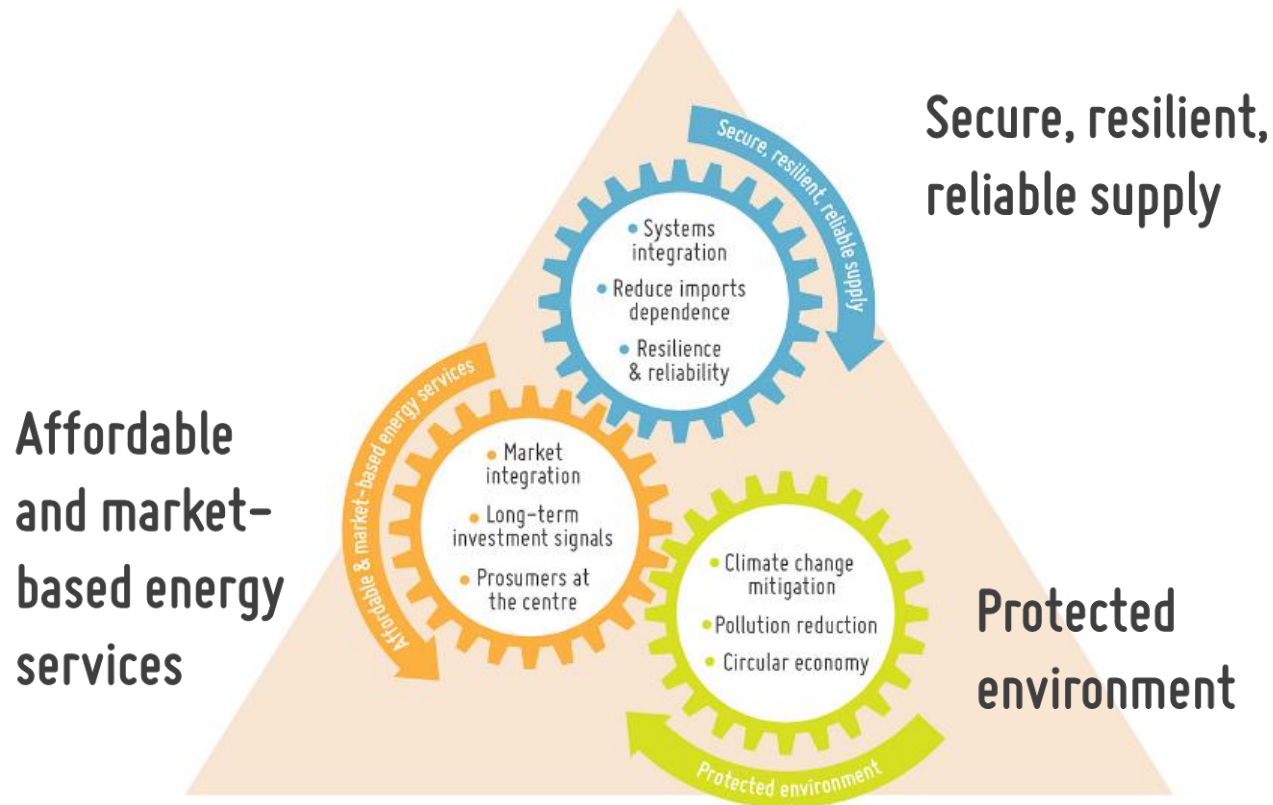
Solar&Storage

Technology Transformation

Risk & Compliance

* - Generation business is associated mostly with renewable energy and new business projects

THREE GOALS OF EU ENERGY POLICY



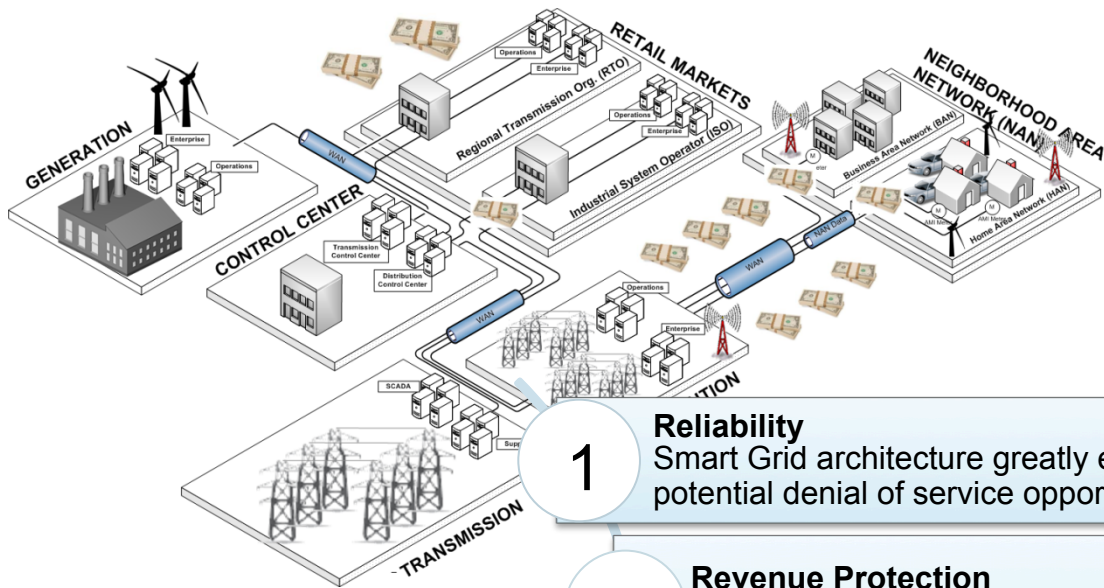
Overview of EU LEGISLATION AND STANDARDS

International Conventions

EU Legislation

EU wide cybersecurity standards

ATTACKERS WILL LIKELY ATTEMPT TO COMPROMISE THE RELIABILITY, INTEGRITY, AND PRIVACY OF THE GRID.



1

Reliability

Smart Grid architecture greatly extends the network edge and introduces several potential denial of service opportunities to attackers

2

Revenue Protection

The integrity and quality of field data must be maintained to support accurate billing for energy consumed

3

Business Continuity/Disaster Recovery

Rapid recovery of energy systems will be essential for successful programs

4

Privacy

SmartGrids & IOT enable collection of sensitive customer data that should be protected

STUDY PROJECT OF ENERGY COMMUNITY

Energy Community Secretariat is conducting a study to examine cybersecurity in electricity and gas sectors of the Energy Community Contracting Parties.

The aim of the study is to contribute to building energy-specific cybersecurity capabilities at national and Energy Community levels, eliminate regulatory gaps in the cybersecurity framework and harmonize cybersecurity measures across the single energy market, including both Energy Community Contracting Parties and EU Member States.

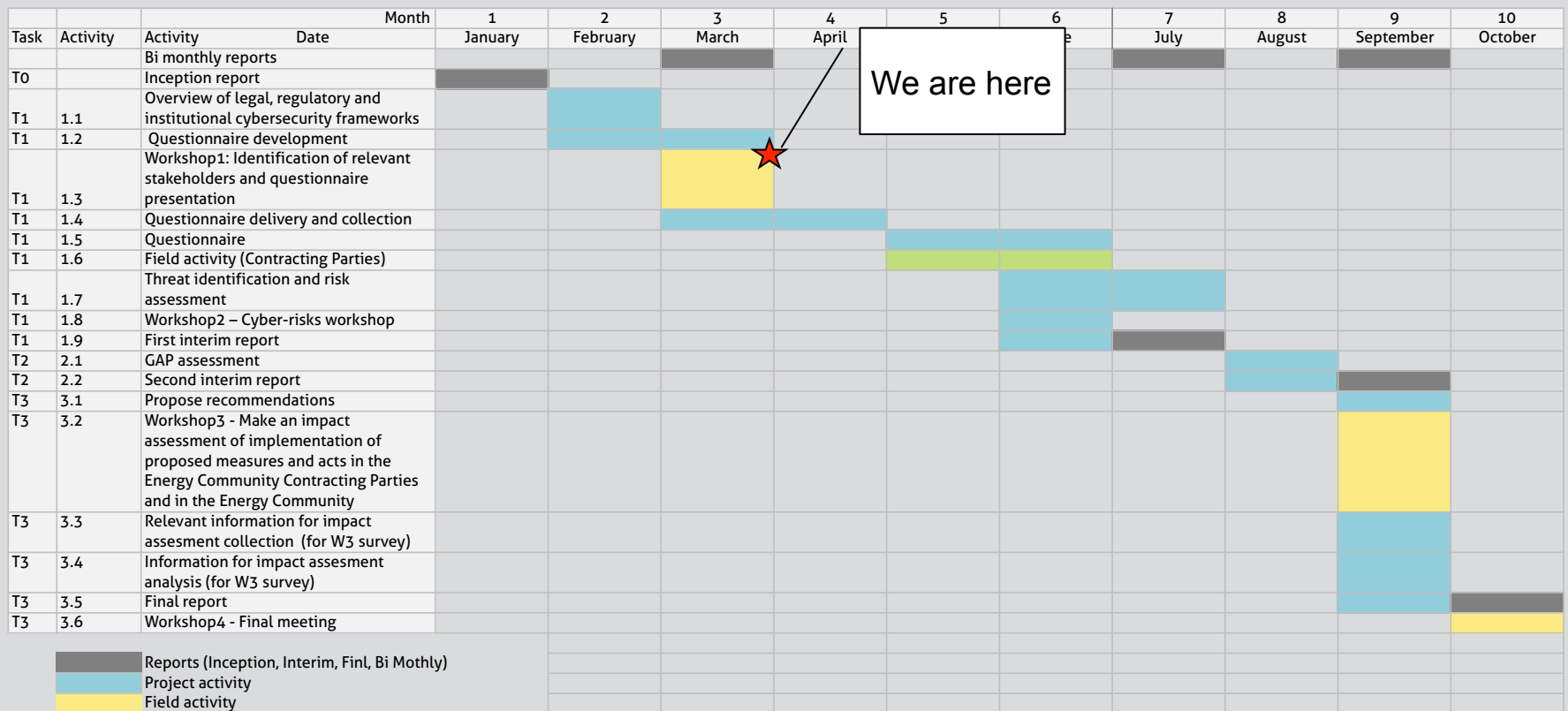
PROJECT OBJECTIVES

Specific objectives of the study are:

- i) to identify and assess key weaknesses, risks and potential exposure to cyber threats in the energy systems of the Energy Community Contracting Parties and interconnected networks;
- ii) to identify the regulatory framework as well as gaps for/in cybersecurity governance in the Contracting Parties;
- iii) to identify provisions of the NIS Directive and Directive 2008/114/EC on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection⁸ (“ECI Directive”) relevant for the energy sectors (including the ongoing reform discussions), and to make an impact assessment of their implementation in the Contracting Parties;
- iv) to propose suitable measures for Contracting Parties to improve cybersecurity of the energy systems and interconnected networks;
- v) to propose a model of regional cooperation in managing cybersecurity risks and reporting incidents in the Energy Community and across the interconnected networks including a common cooperation platform, a common certification framework, and a common framework for research, education and training programmes;
- vi) to explore possibility for participation of the Energy Community Contracting Parties in the European Union Agency for Network and Information Security (ENISA)

Engagement and Ongoing Activities

On the basis of Procedural Act 2018/2/MC-EnC: on the Establishment of an Energy Community Coordination Group for Cyber-Security and Critical Infrastructure, created among other to promote a high level of security of network and information systems and of critical infrastructures within the Energy Community, a coordination group for cyber-security and critical infrastructure was set up.



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