

Tentative Programme of the GARPUR Project Final Conference

The GARPUR Project in brief

Duration: Four years. The GARPUR project started 1 September 2013 and will end in October 2017

Costs and Funding: Budget costs is approx. 10,5 mill. EUR, and contribution from EC is 7,767 mill. EUR

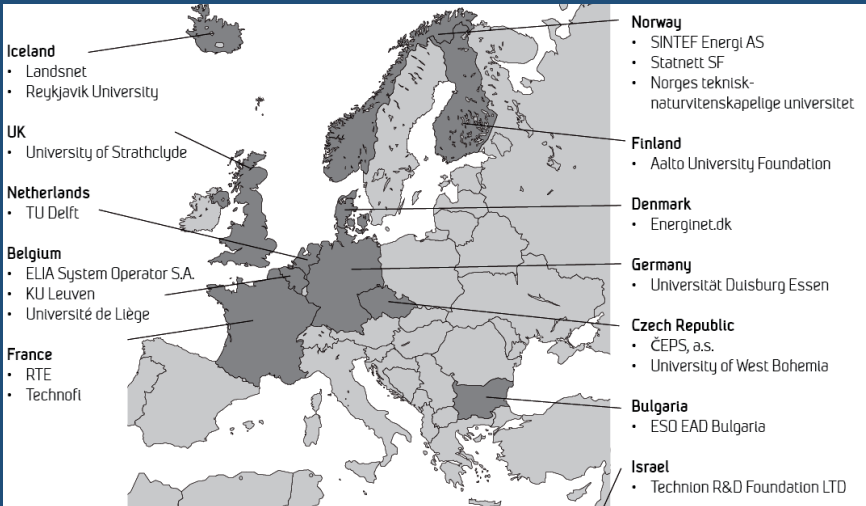
Partners: 20 partners from 12 countries, including 7 TSOs: Statnett (Norway); ELIA (Belgium); RTE (France); Landsnet (Iceland); ESO (Bulgaria); CEPS (Czech Republic); Energinet (Denmark)

Coordinator: SINTEF Energi AS – Oddbjørn Gjerde (Norway)

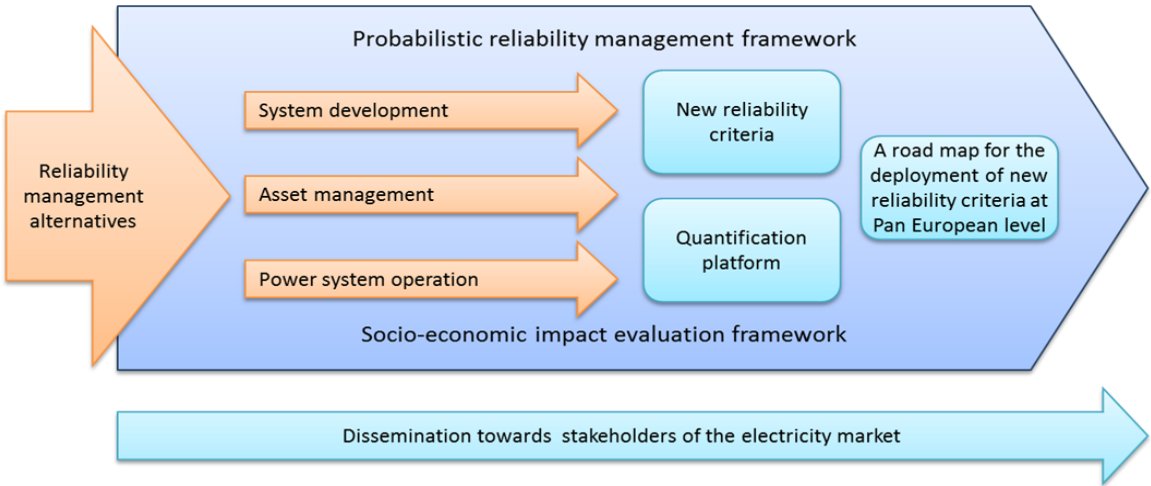
Scientific advisor: Université de Liege – Louis Wehenkel (Belgium)

Purpose: The GARPUR project designs, develops, and assesses new probabilistic reliability criteria and evaluates their practical use while maximizing social welfare

Please visit the GARPUR website for more information: <http://www.garpur-project.eu/>



This diagram summarizes the expected outcomes from GARPUR:



GARPUR Final Conference

GARPUR's new reliability criteria: Their impact on the future handling of power system reliability

17-18 October 2017 "The Hotel" Boulevard de Waterloo 38, 1000 Brussels

Day 1: A journey through the GARPUR technical results

Session 1 – WELCOME and INTRODUCTION

- Welcome by **Petter Støa**, SINTEF, Norway
- Introductory speech by **Patrick Van Hove**, European Commission
- Overview of the project by **Oddbjørn Gjerde**, SINTEF, Norway

Session 2 – PROBABILISTIC FRAMEWORK FOR RELIABILITY MANAGEMENT

- Development of new reliability criteria, **Efthymios Karangelos**, University of Liege, Belgium
- Socio-economic assessment of reliability criteria, **Fridrik Már Baldursson**, Reykjavik University, Iceland
- Introduction to the panel discussion, **Gerd Kjølle**, SINTEF, Norway

Panel discussion: "Reliability and economy"

Discussion between presenters and the audience

Session 3 – APPLICATION IN TSOs' RELIABILITY MANAGEMENT TASKS

- System Operation, **Íris Baldursdóttir**, Landsnet, Iceland and **Pascal Tournebise**, RTE, France
- Asset Management, **Remy Clement**, RTE, France and NN, Statnett, Norway
- System Development, **Jonathan Sprooten**, ELIA, Belgium and NN, Statnett, Norway

Panel discussion: "GARPUR TSOs about the value of probabilistic reliability management"

Discussion between presenters and the audience

Session 4 – COMPARISON OF N-1 AND THE PROBABILISTIC APPROACH

- Presentation of the GARPUR Quantification Platform (GQP)
Frederik Geth, KU Leuven, Belgium
- Testing the functionality of the GQP, and lessons learned
Pascal Tournebise, RTE, France

Session 5 – WRAP-UP: FURTHER R&I CHALLENGES IN RELIABILITY MANAGEMENT

- Introduction, **Louis Wehenkel**, University of Liege, Belgium

Panel discussion: "Filling the scientific and technical gap"

GARPUR members and external stakeholder will be invited to participate on this panel

Conference dinner, Networking and social event

Day 2: Making the GARPUR results operative in the real life

Session 6 – WELCOME AND INTRODUCTION TO GARPUR AND DAY 2

- Brief summary of the objectives of GARPUR and the main results based on day 1
Oddbjørn Gjerde, SINTEF, Norway

Session 7 – BENEFITS FOR SOCIETY AND POSSIBLE BARRIERS FOR IMPLEMENTATION

- **Complementary perspectives from regulators**
 - NN, NVE, Norwegian regulator
 - NN, Bundesnetzagentur, German regulator
 - **Martin Queen**, Ofgem, UK regulator
- **The Socio-economic approach in GARPUR and examples for the impact of GARPUR-approach**,
Gerd Kjølle, SINTEF, Norway

Panel discussion

"What is the willingness of the regulators to embrace the probabilistic approach?"

The presenters supported by some more representatives from other regulators

Session 8 – CHALLENGES AND BENEFITS FOR TSOS

Experience, results and recommendations for TSOs

- **System Operation**, Landsnet and RTE
- **Asset Management**, RTE and Statnett
- **System Development**, Elia and Statnett

Panel discussion

"Overall complexity and the need for a holistic view on the different time horizons"

The presenters supported by some more representatives from other TSOs

Session 9 – TRANSITION ROADMAP FOR THE IMPLEMENTATION OF GARPUR RESULTS

- **Transition roadmap**: How Europe can evolve from the current N-1 practices into the new reliability framework. Focus on the barriers that must be removed before the new reliability criteria can be implemented
Manoël Rekinge, ELIA, Belgium

Panel discussion/Conclusion with TSOs and regulators

"Going on the real life with Garpur results"

A selection of panel participants from Session 7 and Session 8 panels

Closing words

GARPUR Project Officer: **Patrick Van Hove**, European Commission