



Future Resilience of the UK Electricity System

Project Launch Event

15th January 2019

Health and Safety



Today's speakers



Sam Stephens

Principal Engineer,
Atkins, member of
SNC-Lavalin Group



Peter Jones

Technical
Manager,
Energy Research
Partnership



Matt Crossman

Team Leader,
National
Infrastructure
Commission



Owen Wilkes

Product
Development
Manager,
National Grid



Juliet Mian

Associate
Director,
Infrastructure
Advisory, Arup

Agenda

10:00 Introduction

- Sam Stephens, Atkins, member of SNC-Lavalin Group

10:15 Key Findings of the work

- Peter Jones, Technical Manager, ERP

11:00 Resilience Planning for the Future - Panel Q+A

- Chair: Sam Stephens, Atkins
- Matt Crossman, Resilience Team Leader, National Infrastructure Commission
- Owen Wilkes, Product Development Manager, National Grid
- Juliet Mian, Associate Director, Arup

12:00 Networking Lunch



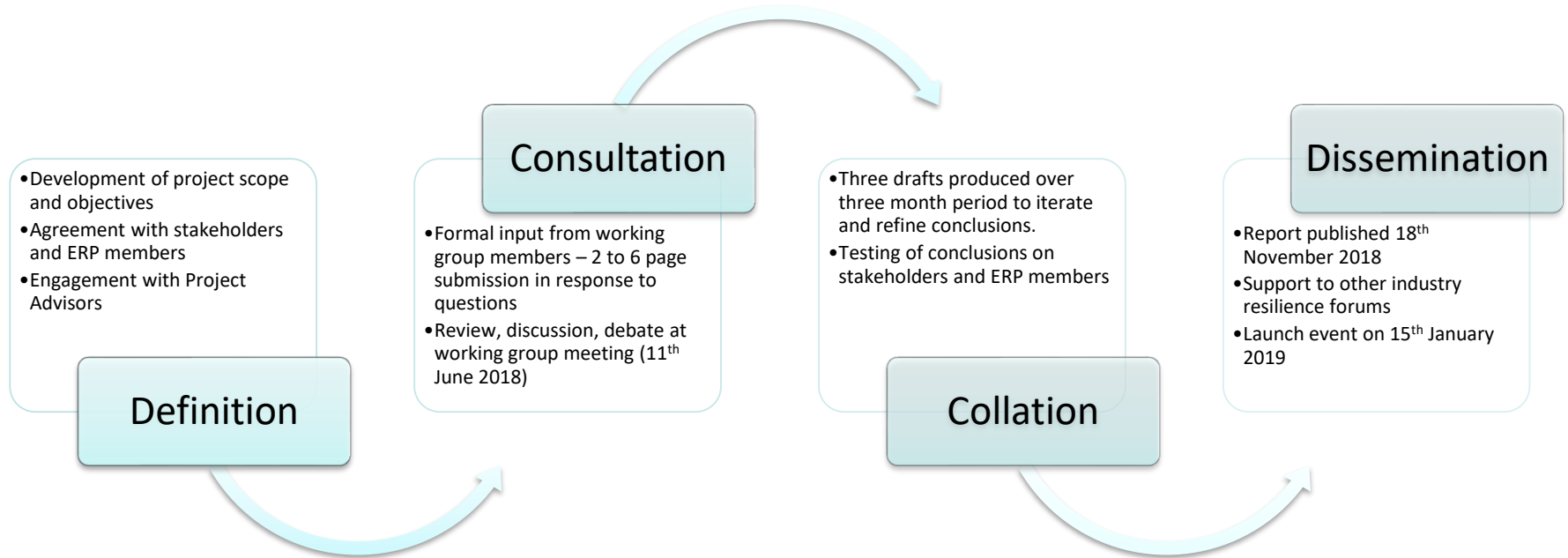
About the Energy Research Partnership

- ERP is a public private partnership which brings together a diverse range of participants from across the energy sector, with **senior level representation** from industry, academia and government.
- Its primary purpose is to offer a consultative forum, which aims to **accelerate innovation in the energy sector** through enhanced dialogue and communication across industry and government.
- It is an **independent, not for profit organisation** whose activities are funded by Member contributions.
- ERP believes that the focus should be on optimising the **whole system**. Facts and fundamental **engineering and economic principles**, not incumbent or biased positions, should guide decision making.

Member organisations



Project approach



Working Group members

ERP Members

National Grid Electricity Transmission

Atkins, member of SNC-Lavalin Group

Arup

Energy Systems Catapult

ABB

EDF Energy

BEIS

Welsh Government

National Infrastructure Commission

Project Advisors

Energy Networks Association

Electricity North West

Northern Power Grid

Scottish Power Energy Networks

UK Power Networks

SSE

University of Manchester

Project objectives

To identify and assess energy landscape changes that could impact the future resilience of the electricity system, and deduce the key focus areas for their management

Objective 1: Review current industry definition(s) of, the means of managing resilience within the UK Electricity System, including a round-up of current industry work on identifying resilience risks, and measures to improve resilience.

Objective 2: Assess the impact of the changing energy landscape (including cross-sector dependencies) on how resilience is managed within the UK Electricity System

Objective 3: Develop an objective view of how to manage levels of resilience in the future, and what focus areas/ actions are required to enable the industry to adapt to the changing energy landscape (focus – up to 2030)

Project scope

- In scope:
 - Dependency on electricity system
 - Future effects
 - High level whole systems analysis
- Outside of scope
 - Detailed consideration of specific hazards – these are covered elsewhere
 - Black start arrangements
 - Detailed analysis of system, risks and interdependencies