ESO Technology Advisory Council

TAC-1

18 December 2020

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TAC-1 meeting agenda

Item	Time	Duration	Description	Additional material
	15:30-15:35	5 mins	Welcome	
1	15:35-15:40	5 mins	Introduction from Fintan Slye – Director, Electricity System Operator	
2	15:40-15:45	5 mins	Introduction from Vernon Everitt – Chair	
3	15:45-16:15	30 mins	Technology Advisory Council member introductions	
4	16:15-16:35	20 mins	Terms of reference and ways of working	• Draft terms of reference document • Non-disclosure agreement and conflict of interest form • Paper template
5	16:35-16:55	20 mins	Forward look of topics	
6	16:55-17:00	5 mins	AOB	
	17:00		Close	

Item 1

Welcome from Fintan Slye – Director, Electricity System Operator

Item 2

Introduction from the Chair – Vernon Everitt

Item 3

Member introductions

This section will be used to introduce the group membership

- Please come prepared to spend 2-3 minutes outlining your:
    - Area of expertise and interest
    - Experience
    - Hopes and expectations for the ESO Technology Advisory Council

- Please could you provide a brief (no more than a few sentences) summary of your current role, experience and expertise.

- Please also provide a photo suitable for the website (ideally 16x9 – ie wider than taller)

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ESO Technology Advisory Council membership

Chair

Name	Position
Vernon Everitt	Managing Director – Customers, Communication & Technology, Transport for London

Membership

Name	Position
Randolph Brazier	Head of Innovation and Digital, Energy Networks Association
Graham Campbell	Head of DSO, Scottish Power
Andy Hadland	Chief Product Officer, Arenko
Alastair Martin	Founder and CEO, Flexitricity
David Sykes	Data Scientist, Octopus
Kate Garth	Senior Regulatory Affairs Manager, RWE Renewables
Alvaro Sanchez Miralles	CEO, STEMY Energy
Chris Kimmett	Director Power Grids, Reactive Technologies
Dennis Leach	Senior Software Engineer, Limejump
Teodora Kaneva	Programme Manager – SmarterUK, TechUK
Jo-Jo Hubbard	Founder and CEO, Electron
Simon Pearson	Digital Business Leader, Energy Systems Catapult
Peter Stanley	Director of Digital Operations, Elexon
James Houlton	Enterprise Transformation Executive, AWS
Ulrika Wising	Global VP Customer Solutions, Shell New Energies
Anastasia Vaia	VP Engineering for Scale Up of New and Digital, BP
Melissa Stark	Global Renewables Lead, Accenture
Chris Dent	Professor of Industrial Mathematics, University of Edinburgh
Claudia Centazzo	Business Development Director, Smith Institute
Judith Ward	Associate, Sustainability First

ESO Technology Advisory Council group membership

Randolph Brazier

Graham Campbell

Andy Hadland

Alastair Martin

David Skyes

Kate Garth

Alvaro Sanchez Miralles

Chris Kimmett

Dennis Leach

Teodora Kavena

Chair
Vernon Everitt

ESO
Norma Dove-Edwin
Graham Dolamore
Pirvinder Bansel
Colm Murphy
David Bowman

Judith Ward

Jo-Jo Hubbard

Claudia Centazzo

Chris Dent

Melissa Stark

Anastasia Vaia

Ulrika Wising

James Houlton

Peter Stanley

Simon Pearson

TAC members

Name: Randolph Brazier

Current role: Head of Innovation and Digital, Energy Networks Association

Name: Graham Campbell

Current role: Head of Distribution System Operation, Scottish Power Energy Networks

TAC members

Name: Andy Hadland

Current role: Chief Products Officer, Arenko

Name: Alastair Martin

Current role: Founder and Chief Strategy Officer, Flexitricity

TAC members

Name: David Sykes

Current role: Data Scientist, Octopus Energy

Name: Kate Garth

Current role: Senior Regulatory Affairs Manager, RWE Renewables

TAC members

Name: Alvaro Sanchez Miralles

Current role: CEO, STEMY Energy

Name: Chris Kimmett

Current role: Director Power Grids, Reactive Technologies

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TAC members

Name: Teodora Kavena

Current role: Programme Manager – Smarter UK, TechUK

Name: Joanna Hubbard

Current role: Co-founder and Chief Executive Officer, Electron

TAC members

Name: Simon Pearson

Current role: Digital Business Leader, Energy Systems Catapult

Name: Peter Stanley

Current role: Director of Digital Operations, Elexon

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TAC members

Name: James Houlton

Current role: Enterprise Transformation Executive, Amazon Web Services

Name: Ulrika Wising

Current role: Global VP Customer Solutions, Shell New Energies

TAC members

Name: Anastasia Vaia

Current role: VP Engineering for Scale Up of New and Digital, BP

Name: Melissa Stark

Current role: Global Renewables Lead, Accenture

TAC members

Name: Chris Dent

Current role: Professor of Industrial Mathematics, University of Edinburgh

Name: Claudia Centazzo

Current role: Business Development Director, Smith Institue

TAC members

Name: Judith Ward

Current role: Associate, Sustainability First

Name: Dennis Leach

Current role: Senior Software Engineer, Limejump

ESO representatives

Name: Norma Dove-Edwin

Current role: Head of ESO IT

Name: Graham Dolamore

Current role: Programme Director – Balancing and ENC Compliance

ESO representatives

Name: Gary White

Current role: Lead Enterprise Application Architect

Name: Colm Murphy

Current role: Head of Electricity Market Change Delivery

ESO representatives

Name: David Bowman

Current role: Balancing Product Manager

Item 4

Terms of reference and ways of working

Culture and ways of working

- Chatham House rule:

    - Information can be used but the identify or affiliation of the speaker should not be disclosed

    - Anonymised minutes will be published

- Safe space

- Be open minded, bring ideas and ask questions

Expectations of group members

- Represent their sector rather than their organisation

- Read the pre-read material, which will be distributed in a timely manner

- Review minutes to ensure all views have been correctly captured

Discussion:
- Should minutes be anonymised?
- How can we create a collaborative culture?

Terms of reference

We have drafted the Terms of Reference (ToR) based on those for the ESO RIIO-2 Stakeholder Group (ERSG).

Discussion:
- Are they any comments on the terms of reference?
- What should be group quorum be?
- How should meeting dates be selected?
- Are the group happy to approve the ToR (subject to changes)?

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Proposal for managing conflicts of interest

Having robust and clear processes to manage conflict of interests will help group members and give confidence to stakeholders not involved in the process

- Membership list will be publicly available and all members are required to complete an NDA and declaration of business interests

    - Key point: members are chosen for their individual expertise and information that is marked as restricted should not be further distributed or used for commercial purposes

    - Information shared with the Chair and Technical Secretary

- ESO to clearly market documents where there are any restrictions on their use or distribution

    - ESO to be as transparent as possible – we will only restrict materials where necessary

    - Complete or redacted materials posted online where possible

- Chair, Technical Secretary and ESO to review materials before they are circulated to the group:

    - Review markings

    - Consider if distribution to specific group members should be restricted

    - Discuss restrictions with affected parties

- Standing agenda item at the start of each meeting to:

    - Confirm any restrictions in place

    - Ask for members to raise or declare any further conflicts of interest

    - Agree restrictions on abstentions from discussion as appropriate

- Technical Secretary to minute all restrictions and abstentions

Discussion:
- Do you have any comments on the NDA and declaration of business interests form?
- Do you agree with this proposal?

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Template for ESO papers

Discussion: Do you approve the paper template?

We have proposed a structure for ESO papers

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ESO Technology Advisory Council
Topic Title

Agenda item: TAC-1.1

Meeting date: 30/01/2019

Executive summary

Context
- Text
- Text
- Text

Engagement and analysis
What engagement channels have we used? What is the overall stakeholder sentiment on our proposals?

Options
Working with our stakeholders, we have identified xxx options/activities for our xxx role as follows:

Option	Insight
(1) One line option description	Given stakeholder feedback what is our recommendation for this option or what happens next with this option?
(2) One line option description	As above
(3) One line option description	As above
(4) One line option description	As above

Recommendation
Our emerging preferred option at this stage is to xxx. Maximum two sentence description.

Input requested from TAC
The ask of TAC should adapt the standard questions below to suit the topic that we are seeking views on.
1) Do you agree with our emerging proposal to xxx?
2) Do you agree that our emerging proposal to xxx will realise the consumer benefits articulated?
3) Do you agree that the projected costs of delivering our emerging proposal for xxx are justified by the consumer benefits articulated?
4) Are you comfortable with the stakeholder engagement that has taken place on this subject and how the feedback has been used?

Please keep the executive summary to one page

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The Report

Further context

Stakeholder engagement
How have we engaged? Who have we spoken to? Any overarching themes from engagement that cannot be captured well in the table below?

Options

Options	Pros	Cons
Option 1 – Further description if helpful	• What stakeholders have said in support • How this option drives consumer benefit • How we might measure it	• What stakeholders have said against • Why this option is not optimal from consumer benefit POV • Any risks from the option
Where available include costs of option and quantified benefits		

Recommendation and next steps
What is our preferred position? Explicitly link back to pros and cons in above table.

What will we do next? Plans for further engagement and analysis.

Input requested from TAC
1) Do you agree with our emerging proposal to xxx?
2) Do you agree that our emerging proposal to xxx will realise the consumer benefits articulated?
3) Do you agree that the projected costs of delivering our emerging proposal for xxx are justified by the consumer benefits articulated?
4) Are you comfortable with the stakeholder engagement that has taken place on this subject and how the feedback has been used?

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Format for discussion of ESO papers

The Chair will lead structured discussions on the papers submitted for TAC consideration. Will this facilitate the right discussions?

- *Paper circulated in pre-read*

- Sponsor to introduce the paper (context, key options, key evidence, recommendation, ask of TAC) - 5-10 minutes

- Chair to ask group for points of clarification

- Chair to ask group for detailed points and feedback on:

  - Scope of paper

  - Options considered

  - Engagement activity

  - Analysis

  - Recommendations

  - Next steps

- Chair to ask group for decisions on "asks to TAC"

  - Consensus, majority/minority agreement, rejected – sectoral views captured

  - Any caveats or action points

  - Recommendations to the ESO

- **Unless otherwise stated, discussions should be under the Chatham House rule: information disclosed during a meeting may be reported by those present, but the source of that information may not be explicitly or implicitly identified**

Discussion:
Do you approve the format for discussion?

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Action log template

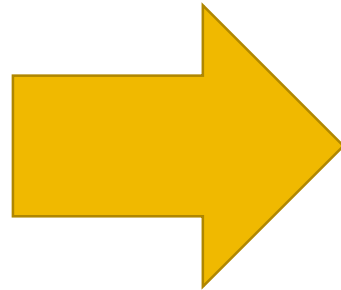| Action Ref	Date raised	Topic	Action / query / recommendation	Action / query / recommendation – description	Owner	Status open / closed)	Comments

Item 5

Forward looking view of topics

Topics for future meetings

This section will be used to discuss topics for discussion in subsequent meetings

Strategic transformation	Digitalisation	Product development
• Culture • IT operating model • What an ambitious, digitalised ESO looks like? • What is the end state for the ESO? • What will the ESO be? • What should the ESO's role be?	• Digitalisation strategy • Digital action plan	• Customer and user journeys • Balancing and Network Control Roadmaps (see next slides) • Data Strategy

Date	Topics
18 December 2020	• Introductions • Ways of working • Terms of reference
January	• Further discussion on structure (eg strategic v technical layers) • Digitalisation strategy and digital action plan (submitted to Ofgem in December 2020)
February	• Strategic transformation • Customer and user journeys
March	• Balancing Roadmap (for publication) • Network Control Roadmap (for publication) • Data Strategy
Quarterly meetings	• Strategic transformation updates • Digital action plan updates • Product roadmap updates

Discussion:
- Are there topics you would like the ESO to bring?
- Do you agree with this draft schedule?
- When should the next meeting be held?