



Project Progress Report
SSEN005 TRANSITION
September 2019



Scottish & Southern
Electricity Networks

1) Executive Summary

Overview of TRANSITION

The GB network continues to evolve, and there is a clear need for networks to adapt, become more flexible, enhance network operations and allow new market models such as peer-to-peer trading to emerge. The 'fit-and-forget' approach of traditional network operation relied on predictable energy use and production that matched that use. The transition to a DSO (Distribution System Operation) has the potential to bring significant benefits to customers; it also brings a range of new complex challenges, unintended consequences and risks for market participants, new entrants and the network licensees.

The ENA Open Networks Project (ON-P) is focussed on defining the DNO (Distribution Network Operator) transition to a DSO model, and has been endorsed by the UK Government's Smart Systems and Flexibility Plan.

TRANSITION is an Ofgem Electricity Network Innovation Competition (NIC) funded project. Led by SSEN in conjunction with our project partners ENWL, CGI, Origami and Atkins.

TRANSITION, based on the outputs of Open Networks, will inform the design requirements of a Neutral Market Facilitator (NMF) and Whole System Coordinator (WSC), develop the roles and responsibilities within the marketplace, develop the market rules required for the trials, and implement and test the concept of the systems by means of trials in Oxfordshire.

The TRANSITION NIC project gained Ofgem funding as part of a collaboration agreement between TRANSITION (SSEN), EFFS (WPD project) and FUSION (SPEN project), known in the industry as T.E.F.

In addition, the project is also closely collaborating with the Local Energy Oxfordshire (LEO) project, a UK Industrial Strategy funded project. Both TRANSITION and LEO have objectives that are closely aligned and when combined significantly enhance the overall learning.

Progress within this Reporting Period

During this reporting period, the Project has focused on:

- Defining the requirements for the NMF;
- Defining the requirements for the WSC;
- Developing the Flexibility Services to trial;
- Define the basic Market Rules which will be utilised during the Trial Phase;
- Developing Site Selection methodology;
- Selecting a vendor for the Substation monitoring equipment.
- Interfacing extensively with the T.E.F. collaboration and Project LEO.

Deliverables

The project has successfully completed both Project Deliverables which were due within this reporting period.

- The Project completed its first deliverable, "WP6 Trial Specification", with a report submitted on 29th March 2019, and published on the TRANSITION project website.
- The Project completed its second deliverable, "WP2 Requirements Design Development", with two reports submitted on 31st May 2019, both of which were published on the TRANSITION project website.
- The next Deliverable, "Stakeholder feedback event (Stage Gate)"; is on schedule to be completed by 29th February 2020.

Risks

The main risks to the project are:

- Industry thinking and development works progress in a different direction from TRANSITION resulting in

1) Executive Summary

a divergence of objectives. The project is engaging with various bodies including ON-P, Ofgem, BEIS, Charging Futures Forum to mitigate this risk.

- Lack of interest from platform providers/suppliers when tendering for the NMF and WSC resulting in incomplete “DSO” systems. The project has published the NMF Requirement Specification on the website, the WSC Requirement Specification is due to be published in September 2019, with webinars planned for Q4 2019 to increase visibility.
- Significant changes to the Oxfordshire trial networks during the life of the project could affect the outcome of the planned trials in Oxfordshire. E.g. new housing development, large commercial connection. Project team to ensure early engagement with BAU departments to ensure any changes are identified as early as possible and don't impact the trials. Early identification will allow a modification of the planned trials.

Events

The project has held several iterations of the “War Games”, a round table stakeholder exercise with the primary objective to test and find weaknesses in the basic market rules, developed by TRANSITION, so they can be addressed before they are used in field trials next summer. Further events are planned for LEO participants, and wider industry stakeholders.

Also, on 23rd May 2019 the SSE Group hosted the “Young Energy Professionals Event” in Glasgow on the topic “Distributed Energy: Learning from the Past and Looking to the Future”. TRANSITION, alongside our project partner from CGI, who acted as the event Chair, presented an overview of the project and an update on progress to date.

The project has hosted, attended and contributed to monthly T.E.F. Project Delivery Board meetings and associated T.E.F. workshops.

Communications

During this reporting period, project information has been shared directly with stakeholders, both internal and external, and published on the Project website.

Dissemination of Project learning has continued with the publication of seven reports within this reporting period, all of which have been uploaded on the TRANSITION project website.

For information, the TRANSITION project website address is: <https://ssen-transition.com/>

2) Project Manager's Report

Project Summary

The project is split into two distinct phases; Phase 1 Requirements phase, Phase 2 Deployment and Trial phase. During this reporting period the project has been in Phase 1 Requirements Phase.

Phase 1 will focus on the definition of requirements, stakeholder engagement and consultation, IT architecture and integration requirements, trial site identification and specification of proposed trials. The business case will be reviewed at the end of Phase 1 to ensure the scope and content are still appropriate in this rapidly changing area, to maintain alignment with Open Networks, and to incorporate learning from other innovation projects in this area.

The first three months of this reporting period were focused on agreeing contracts with our three consultant partners, CGI, Origami and Atkins, and, finalising a Collaboration Agreement with our DNO partner ENWL.

The main focus for the remainder of the reporting period has been defining the requirements for the NMF and WSC, identifying trial sites in Oxfordshire, developing market rules and services.

The Project is managed via six work packages. An update on the progress made on each work package during this reporting period is provided below.

Project Management

The Project team and internal stakeholders are engaged and holding regular update meetings.

The project team regularly engage with our T.E.F. project partners, LEO project partners, ON-P Workstreams as well as other innovation projects.

During this period, contracts have been awarded for:

- Project partner works to cover deliverables associated with work packages (WP) 2, 3, and 5 (CGI); WP4 (Origami) and WP6 (Atkins);
- Supply of monitoring equipment;
- Design and build of the project website;
- Licence and Regulatory Roadmap review.

Requirements, design, development

Progress within this reporting period:

- Published "Neutral Market Facilitator Data Exchange and Governance" report on the project website on 31st May 2019. The report describes aspects of governance of the data stored in the Neutral Market Facilitator (NMF) and the exchange of data with other systems or people in other organisations via messages into and out of the NMF.
- Published "Neutral Market Facilitator Requirements Specification" report on the project website on 31st May 2019. The document identifies the requirements for the NMF, a key function to enable a flexibility market.

Forecasting and DSO data

Progress this period has included;

- Published "TRANSITION Forecasting Provider Analysis" report on the TRANSITION website,

2) Project Manager's Report

- Attendance at several EFFS Forecasting workshops and input into EFFS Forecasting documentation.
- Ongoing work to optimise the EFFS output to determine the suitability for Oxfordshire trial area.

Market Models

Progress within the reporting period has included;

- Developing the flexibility services that may be deployed in a future facilitated market, identified in the "Services in a Facilitated Market" report published on the TRANSITION website on 21st August 2019.
- Published "Analysis of Relevant International Experience of DSO Flexibility Markets" report on the TRANSITION website on 28th August 2019. The purpose of the report is to look at DSO projects across the world and to identify the relevant international experience of flexibility markets.
- Use Cases – initial scoping has commenced for a Use Case report on the chosen market models which reflect the outputs from the Future Worlds Consultation.
- The project has held three "War Games" to validate market models and consider rules/conflicts, with a fourth event planned with LEO participants on 24th Sept 2019

IT framework

Work progressed within the period;

- "High Level Solution Design" – The work has progressed on schedule within this reporting period, due for completion in November 2019. The purpose of the document is to provide a high-level view of the components and interactions needed to achieve

the objectives of the TRANSITION project in alignment with the Ofgem Future Insights Report on Flexibility Platforms in Electricity Markets.

- Initial scoping of the Procurable specification required for the NMF and the WSC.

Trial Specification

Progress within this reporting period;

- Developing the site selection methodology, contained in the "TRANSITION Site Selection Methodology" report published on the TRANSITION website on 29th March 2019. The report evaluated SSEN's network against a set of criteria to establish areas for DSO trials.
- Network Monitoring – vendor selected and roll out strategy agreed this reporting period. Circa 100 LV monitoring devices will be installed in Oxfordshire in the next reporting period.

Knowledge Dissemination

Progress within this reporting period;

- The Project website is live and is disseminating requirements, best practice information and regular updates on progress.
- TRANSITION Project outputs and learnings have been shared directly with the T.E.F. project partners during this reporting period, to avoid unnecessary duplication of effort and to maximise learnings for the industry. In addition both EEFs and FUSION have shared learnings with the TRANSITION project.
- In addition, all deliverables and learnings to date have been shared with the Local Energy Oxfordshire (LEO) project, a UK Industrial Strategy Challenge

2) Project Manager's Report

Fund project. Both TRANSITION and LEO have objectives that are closely aligned.

- Finally, the T.E.F. project has engaged with all ON-P Workstreams, in particular WS1A (Flexibility Services), WS1B (Planning & Forecasting) and WS3 (DSO Transition), and the Charging Futures Forum.

Deliverables

The project has successfully completed both Project Deliverables which were due within this reporting period.

- The Project completed its first deliverable, "WP6 Trial Specification", with a report submitted on 29th March 2019, and published on the TRANSITION project website.
- The Project completed its second deliverable, "WP2 Requirements Design Development", with two reports submitted on 31st May 2019, both of which were published on the TRANSITION project website.
- The next Deliverable, "Stakeholder feedback event (Stage Gate)"; is on schedule to be completed by 29th February 2020.

3) Business Case Update

No changes have been made to the Business Case for the TRANSITION project, as described in the NIC Full Submission document.

4) Progress Against Plan

Summary of Progress

The Project has made good progress over the last 12 months and is progressing within budget. The first two Project Deliverables were submitted on schedule in 2019, and works are progressing well towards the third (Stakeholder feedback event (Stage Gate)) due in month 18 (February 2020).

The Requirements Phase remains on schedule to achieve a February 2020 Stage Gate.

The project had a slower start than anticipated due to the requirements for a collaboration agreement which impacted the level of resources available. As a result, the project had spent more on external resources and less on internal labour costs, than planned within this reporting period, in order to maintain progress.

The Project remains on schedule to deliver its remaining Project Deliverables.

Learning has been published and shared directly with stakeholders and on the Project website.

Focus This Reporting Period

The focus over this reporting period has been on:

- Defining the requirements for the NMF;
- Defining the requirements for the WSC;
- Developing the Flexibility Services to trial;
- Define the basic Market Rules which will be utilised during the Trial Phase;
- Developing the Site Selection methodology;
- Selecting a vendor for the Substation monitoring equipment.
- Interfacing extensively with the T.E.F. collaboration and Project LEO.

Key Activities in Next Reporting Period

The Key Activities planned between 28 September 2019 and 27 September 2020 are:

- Whole System Requirement Specification report;
- High Level Solution Design for the NMF and WSC;
- Procurable Specifications for the NMF and WSC and associated procurement activities;
- Stage Gate in month 18 (February 2020) in collaboration with our T.E.F. partners WPD and SPEN.
- Stakeholder feedback event (Stage Gate) Ofgem Deliverable #3
- Publishing a report detailing the Use Cases on the chosen Market Models.
- Site Selection in partnership with the LEO project.
- Develop appropriate commercial arrangements and contract templates for flexibility services. (Ofgem Deliverable #4).

5) Progress Against Budget

The table below details the spend to date against the Project budget for each cost category.

Cost Category	Total Budget	Spend to Date	Comment
Labour	£4,493,570.33	£581,327.71	Lower than planned ⁴
Equipment	£1,117,393.84	£52,000.00	Outturn on schedule
Contractors	£3,018,310.76	£747,209.60	Higher than planned ⁴
IT	£3,187,325.86	£8,777.00	Outturn on schedule
IPR costs	£0.00	£0.00	On plan
Travel & Expenses	£516,827.59	£11,779.89	Lower than planned ⁴
Payments to users	£385,562.33	£0.00	On plan
Contingency	£0.00	£0.00	On plan
Decommissioning	£72,550.75	£0.00	On plan
Other	£0.00	£0.00	On plan
Total	£12,791,541.46	£1,401,087.20¹	Outturn on schedule

Notes:

1. The table above provides details of the project spend to date up to the 31st August 2019. The Project Progress Report 2020 will contain Progress Against Budget information from 1st September 2019 to 31st August 2020.
2. The project will submit a revised financial forecast as part of the planned Stage Gate due in February 2020.
3. Up to 31st August 2019 the project spent £1,104,638.16 (which has been processed through the Project Bank Account, see Appendix 1 for details). In addition, the project has spent £296,449.04 which has yet to be processed through the Project Bank Account. The total Project spend to 31st August 2019 is therefore £1,401,087.20 (as detailed in the table above).
4. The project had a slower start than originally anticipated whilst finalising the collaboration agreement which impacted the level of resources available. As a result, the project had spent more on external resources (Contractors) and less on internal labour costs (Labour) than originally planned. Consequently, "Travel & Expenses" are also underspent compared to plan. In order to minimise the impact to project progress the TRANSITION project has utilised resources within the business where appropriate. However, the project is forecasting an overall outturn on target.

6) Bank Account

A copy of the current project bank account statement is provided in Appendix 1 (Confidential).

7) Project Deliverables

An update on the Project's Deliverables is provided below.

The TRANSITION Project identified seven deliverables which span both the objectives and the lifecycle of the project. In addition, a "Common Project Deliverable" was identified in the Project Direction, dated 28th September 2018. Project progress within the reporting period was delivered as planned with both Project Deliverables, #1 WP6 Trial Specification and #2 WP2 Requirement Design Development, submitted on schedule. In addition, the overall project progress is on schedule.

The main challenges expected in the next reporting period are as follows:-

- i) Engagement from platform providers/suppliers when tendering for the NMF and WSC could result in an incomplete "DSO" system. The project has published the NMF Requirement Specification on the website, the WSC Requirement Specification is due to be published in late September 2019, with webinars planned for Q4 2019 to increase visibility and engagement with potential suppliers.
- ii) Resourcing the combined T.E.F. Stage Gate submission, schedule for February 2020 is expected to require a focussed team effort. The project has in place a recruitment strategy to fill the existing positions, and where appropriate the project will utilise staff within the Future Networks team.

The following table lists each deliverable in chronological order and details the project's progress towards their achievement.

7) Project Deliverables

Deliverable	Due	Description	Evidence	Status
1	31/03/19	<p>WP6 Trial specification</p> <p>Produce and apply the site selection methodology and select the Trial networks.</p>	<p>1. Publish on the TRANSITION website a report detailing the site selection methodology, and a map of Trial areas.</p> <p>2. Selection of networks to install monitoring (if required).</p>	<p>Completed – deliverable met.</p> <p>The following report was published on the TRANSITION project website on 29th March 2019.</p> <p>“TRANSITION Site Selection Methodology”</p>
2	31/05/19	<p>WP2 Requirements design development</p> <p>Data exchange requirements and updated data governance processes specified.</p>	<p>1. Publish report detailing learning from relevant international DSO experience relating to trial objectives.</p> <p>2. Functional specification for connectivity model, data exchange and governance requirements.</p>	<p>Completed – deliverable met.</p> <p>The following reports were published on the TRANSITION project website on 31st May 2019.</p> <p>“Best Practice Report – Market Facilitation for DSO” And “Neutral Market Facilitator Data Exchange and Governance”</p>
3	29/02/20	<p>Stakeholder feedback event (Stage Gate)</p>	<p>1. Stakeholder feedback event to disseminate and gather feedback on outputs from WP 2-6.</p>	<p>On Target, Stage Gate planned in February 2020.</p>

7) Project Deliverables

Deliverable	Due	Description	Evidence	Status
4	31/07/20	WP7 Deployment Develop appropriate commercial arrangements and contract templates for flexibility services. Network adaptation for trial deployment.	1. Publish contract templates for flexibility services and commercial arrangements learning 2. Publish equipment specifications and installation reports	On Target – No planned progress within this reporting period.
5	30/06/21	WP7 Deployment Platform Full Acceptance Testing completed	1. Publish interface and configuration specifications and commissioning reports.	On Target – No planned progress within this reporting period.
6	31/01/22	WP8 Trials stage 1 Completion of one stage of trials	1. Publish monitoring and analysis results for Trials on TRANSITION website. 2. Stakeholder dissemination event showcasing learnings.	On Target – No planned progress within this reporting period.
7	30/09/22	WP8 Trials stage 2 Completion of second stage of trials	1. Publish monitoring and analysis results for Trials on TRANSITION website 2. Stakeholder dissemination event showcasing learnings.	On Target – No planned progress within this reporting period.

Common Project Deliverable

N/A	End of project	Comply with knowledge transfer requirements of the Governance Document.	1. Annual Project Progress Reports which comply with the requirements of the Governance Document. 2. Completed Close Down Report which complies with the requirements of the Governance Document. 3. Evidence of attendance and participation in the Annual Conference as described in the Governance Document.	2019 Project Progress Report is on schedule for submission in September 2019. No planned progress for the Close Down Report. TRANSITION will attend and present at the 2019 LCNI Conference in Glasgow.
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 Completed (Deliverable met)

 Emerging issue, remains on target

 Deliverable completed late

 On target

 Unresolved issue, off target

 Not completed and late

8) Data Access Details

Information gathered as part of this project will be provided to interested parties upon request. The form of the information will be in accordance with the SSEN Network Innovation Competition (NIC) and Network Innovation Allowance (NIA) Data Sharing Procedure, reference PR-NET-ENG-020, Revision 1.00, published on the SSEN website.

Please email future.networks@sse.com for more information.

9) Learning Outcomes

The following learning objectives have been set for the TRANSITION project:

- **Identify the data requirements and data exchanges** informed by Open Networks for DSO functions, map this against current technology (service provider) capabilities and develop requirements for future technologies.
- **Using the outputs from Open Networks, test and validate the market model options being proposed.** Understand the requirements to create a sustainable market that can facilitate competition based on whole system needs.
- **Build on learnings from previous and ongoing projects, as well as collaboration opportunities such as T.E.F. and LEO.** This will help develop understanding of a range of areas where a collaborative approach will be beneficial, including monitoring and modelling requirements to provide network data, connectivity and constraint data in sufficient detail to let the market operate in different network types.
- **Establish system processing and visualisation requirements, including data protection and information security.** This will ensure that cyber security risks are effectively identified and managed.
- **Develop and test DSO Use Cases that will be tested within the project** on different network configurations as well as the market/trading rules and timeframes to allow a neutral market to develop. This will remove barriers to new technology and markets allowing the increased use of market-based solutions as alternatives to reinforcement.
- **Evaluate stakeholder experience of DSO trials.** Comprehensive stakeholder consultation will include discussion with licensees, aggregators, statutory authorities, consumer groups, community energy groups and engagement with the supply chain.
- **Understand and communicate the requirements of an NMF Platform and the commercial mechanisms** that will be required for market participation to trial ways in which energy markets can evolve.
- **Present the commercial interactions required for a DNO to transition to a DSO, develop and demonstrate NMF Platform tested on different network configurations** that will accelerate the transition from DNO to DSO. This will demonstrate the true value or flexibility from a whole system perspective. Maximising access to existing markets alongside new markets and being able to stack revenue across them.

These learning objectives will be met as the TRANSITION Project progresses from the Requirements phase through to the Deployment and Trial phase.

9) Learning Outcomes

Learning during this reporting period

During this reporting period the TRANSITION project has produced a number of Deliverables, Reports, Shared Learnings and engaged with relevant groups. These are categorised against the projects learning outcomes below.

○ Identify the data requirements and data exchanges.

Published “Neutral Market Facilitator Data Exchange and Governance” report on the project website on 31st May 2019. The report describes aspects of governance of the data stored in the Neutral Market Facilitator (NMF) and the exchange of data with other systems or people in other organisations via messages into and out of the NMF.

Published “Neutral Market Facilitator Requirements Specification” report on the project website on 31st May 2019. The document identifies the requirements for the NMF, a key function to enable a flexibility market.

In collaboration with our T.E.F. project partners, ENWL, SPEN and WPD the project provided input into the ON-P 2019 Project Initiation Document (PID).

The project has followed industry direction by adopting the ON-P WS1B Planning and Forecasting Outputs e.g. Real Time Data Exchange.

In conjunction with T.E.F, ON-P and Charging Futures Forum the project has begun a review of the Interdependency Map 2020 (still developing).

○ Using the outputs from Open Networks, test and validate the market model options being proposed.

The project has listened to industry initiatives by adopting the direction provided by ON-P WS3 DSO TRANSITION through the “Least Regrets”, “Future Worlds Consultation” and “Impact Assessment” products“. Note this has resulted in a slight change from the bid document, however, as noted in the “TRANSITION RFI

Responses V1.1” the project could adopt “World A” or “World B” blended with “World C” without significantly impacting deliverables or learnings.

Published “Neutral Market Facilitator Requirements Specification” report on the project website on 31st May 2019. The document identifies the requirements for the NMF, a key function to facilitating competition.

Publication of “Best Practice Report – Market Facilitation of DSO” on the TRANSITION website on 31st May 2019. The report reviewed international experience of future electricity market facilitation to help inform the approach to market facilitation in the British electricity market.

The project has held three “War Games” to validate market models and consider rules/conflicts, with a fourth event planned with LEO participants on 24th Sept 2019.

LEO Minimum Viable Scheme 1 (MVS) – Facilitating the first LEO trial by providing portable monitoring equipment, design support and trial design input. Recommendations from the Energy Data Taskforce have been actioned in part thus far and will advance through future tests.

○ Build on learnings from previous and ongoing projects, as well as collaboration opportunities such as T.E.F. and LEO

Ongoing collaboration with ENWL, a TRANSITION project partner, enables us to share learnings and experience with the aim of simulating trials on the ENWL network.

The project has been heavily engaged with the T.E.F. collaboration in particular:

- Forecasting, “TRANSITION Forecasting Provider Analysis” report published on the TRANSITION website, ongoing work to optimise the EFFS output.

- Trial Design workshop held with the T.E.F. group on 5th June 2019. All four DNOs (SSEN, ENWL, WPD and SPEN) participated in a workshop to share ideas and learnings around future trials.

- Requirements Mapping/Co-ordination – ongoing efforts by all four DNOs to ensure that works are not duplicated and delivered as efficiently as possible.

9) Learning Outcomes

Local Energy Oxfordshire (LEO) – TRANSITION is considered from a LEO point of view as “LEO WP5”. The SSEN-led project LEO draws together a diverse set of stakeholders including a social enterprise, large energy supplier, world-renowned local Universities, city council, county council and emerging SMEs in a £40m programme of innovation and demonstration. This will significantly enhance the learning from TRANSITION at no additional cost to customers.

Engagement with other DSO related projects and initiative, through ON-P or directly where required, such as Power Potential, RDP’s, TERRE.

Ongoing engagement with relevant industry projects including Optimise Prime, Power Forward Challenge (MERLIN), and BEIS FleX competition (e.g. TraDER, Piclo and ISLE).

- **Establish system processing and visualisation requirements, including data protection and information security.**

“Whole System Co-ordinator (WSC) Requirements Specification” report is due to be published on the project website in September 2019.

Design Options Matrix – purpose of design options matrix was to help engage key stakeholders and facilitate the decision-making process for both the NMF and the WSC.

“High Level Solution Design” – The work has progressed on schedule within this reporting period, due for completion in November 2019. The purpose of the document is to provide a high-level view of the components and interactions needed to achieve the objectives of the TRANSITION project.

Network Monitoring – vendor selected and role out strategy agreed this reporting period. Circa 100 LV monitoring devices will be installed in Oxfordshire in the next reporting period.

- **Develop and test DSO Use Cases that will be tested within the project**

War Games – the war games are a round table stakeholder exercise with the primary objective to test and find weaknesses in the basic market rules, developed by TRANSITION, so they can be addressed before they are used in field trials next summer. To date the project has held a session focussed on TRANSITION project partners. The project has a “LEO Project War Game” planned for the end of September 2019, with a further industry wide stakeholder event in October 2019.

Published “Services in a Facilitated Market” report on the TRANSITION website on 21st August 2019. The report identifies what flexibility services may be deployed in a future facilitated market.

Published “Analysis of Relevant International Experience of DSO Flexibility Markets” report on the TRANSITION website on 28th August 2019. The purpose of the report is to look at DSO projects across the world and to identify the relevant international experience of flexibility markets.

Use Cases – initial scoping has commenced for a Use Case report on the chosen market models which reflect the outputs from the Future Worlds Consultation.

- **Evaluate stakeholder experience of DSO trials.**

During this reporting period no DSO trials were planned, however the following planning activities have progressed.

Collaboration with Project LEO WP2, 3 and 4 to develop the Site Selection methodology. Jointly developing a short list of possible trial sites with Oxfordshire.

Published “TRANSITION Site Selection Methodology” report on the TRANSITION website on 29th March 2019. The report evaluated SSEN’s network against a set of criteria to establish areas for DSO trials.

LEO WP2 and WP4 workshops focussed on the NMF and Data Exchanges between a DSO and flexibility participants which included attendance from ENWL, Aggregators, Suppliers, Asset Owners, Flexibility Exchange providers.

Collaboration between the TRANSITION and LEO partners to develop an initial Trial Design for Oxfordshire. The TRANSITION effort is being led by SSEN along with Atkins

9) Learning Outcomes

for the technical elements and jointly by CGI and Origami for the non-technical elements.

Published “Analysis of Relevant International Experience of DSO Flexibility Markets” report on the TRANSITION website on 28th August 2019. The report reviewed stakeholder experience of flexibility markets internationally.

- **Understand and communicate the requirements of an NMF Platform and the commercial mechanisms.**

During this reporting period the TRANSITION project has engaged with ON-P and Ofgem regarding the NMF and WSC concepts.

In addition, the project published the “Neutral Market Facilitator Requirements Specification” report on the project website on 31st May 2019.

Published “Neutral Market Facilitator Data Exchange and Governance” report on the project website on 31st May 2019.

The project, working in partnership with ElectraLink, will set out principle methodologies and key considerations based on DCUSA; CUSC; BSC and REC assessment. Works have commenced on Stage 1 which will conclude in late 2019 / early 2020 with a High-level Licence and Regulatory Roadmap and Methodology framework for future Change Proposal Impact assessments.

Present the commercial interactions required for a DNO to transition to a DSO, develop and demonstrate NMF Platform tested on different network configurations

TRANSITION is working closely with the LEO project partners to understand the commercial interaction for an “end to end” flexibility.

As mentioned previously the project is also working in partnership with ElectraLink to develop High-level Licence and Regulatory Roadmap and Methodology framework.

The project has worked closely with ENWL to ensure that output and learnings from TRANSITION are solution

agnostics, where appropriate, and can be tested on different network configurations.

10) IPR

No relevant IPR has been generated or registered during this reporting period, and none is forecast to be generated or registered in the next reporting period.

11) Risk Management

Risk Management Plan

The Project risk register is regularly reviewed by the Project team and the key Project risks are highlighted and discussed at project partner meetings, where mitigating actions are agreed.

Risk Register

The current Project Risk Register is provided in Appendix 2 (Confidential)

12) Accuracy Assurance Statement

PPR Preparation Steps

To ensure that the information contained in this report is accurate and completed, the following steps have been taken, the report has been:

- Prepared by the Project Manager;
- Reviewed by the Project Team;
- Reviewed by the Steering Group; and
- Approved by the Project Director and Regulation.

Sign-off

As the senior manager responsible for the TRANSITION Project, I confirm that the processes in place and steps taken to prepare this PPR are sufficiently robust and that the information provided is accurate and complete.



Stewart A Reid

Head of Future Networks

Scottish and Southern Electricity Networks

Date 26/09/19

13) Material Change Information

In reference to the Electricity Network Innovation Competition (NIC) Governance Document version 3.0, the project can confirm that no material change has occurred within the reporting period.

14) Appendices

Appendix 1

Project Bank Account Statement

Appendix 2

Risk Register

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