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GC0139: Costs and Implementation

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Implementation

Distribution Network Operator (DNO)–National Energy System Operator (NESO) Data Exchange Changes

The Grid Code modification GC0139 has identified the need for an enhanced data exchange between the DNOs and NESO to meet the future network planning needs. The current process based around the exchanges of spreadsheets and diagram files at weeks 24 and 50 for DNOs and Week 42 for NESO will be impacted.

The members of the GC0139 Workgroup have undertaken analysis looking at extending the current method to provide the enhanced data exchange required. This analysis determined that this route would incur significant cost in development by all parties the capability to generate and consume data to allow for the enhanced network data exchange to take place, hence GC0139 considered Common Information Model (CIM) as reasonable method to facilitate this exchange of data between the various parties.

From the [OFGEM Open Letter](#) this route aligned with Long Term Development Statement (LTDS) work also driving CIM as the preferred data exchange method. Hence the GC0139 Work Group derived changed Planning Code Text based on this direction.

This work has identified needs for a GB CIM Governance Group or Panel to manage the GB CIM definition and implementation co-ordination for the industry to implement and maintain going forward.

A platform for the interfacing parties DNO and Transmission Owners (TOs) to agree points at which the ownership of network and hence the responsibility for the data to be exchanged to be developed and made available.

A secure data transfer area for parties to facilitate the exchange of network models, both in terms of data volumes and security needs to due to the sensitivity this data could have.

Lastly changes to BAU process and manpower allocation to be able to implement the drafted changed to the Planning Code GC0139 is proposing.

CIM Governance

As part of the GC0139 drafting work it has been identified that a GB CIM governance Group/body is required to ensure the proposed enhanced data exchange will both function at the time of implementation, but also in an enduring basis. NESO has participated in discussions with various parties to ensure this Group / function has a defined Terms of Reference and is supported with knowledge and experienced from similar work under the European Network of Transmission System Operators for Electricity (ENTSO-E) Common Grid Model Exchange Standard (CGMES) work. This looked at delivering CIM based transmission system model exchange.

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Interface Point Agreement

NESO has decided this platform sits best for the industry if it is to host this system. Consequently, it has undertaken design and development of electricity Management of Interface Data system (eMIDS). This system has required development of the requirements and specification to deliver a system to meet the needs of the enhanced DON-NESO data exchange. Considering the need for this agreement to be between the businesses that own the assets. The agreements then allow the generation of an interface file in CIM format that DNOs and NESO can facilitate the exchange of network models that align with data responsibilities as defined in the Planning Code changes as drafted by GC0139. This work has been undertaken by a NESO DD & T project Planning and Outage Data Exchange (PODE) Work Stream 3.

Secure Data Transfer Area

As part of the NESO DD & T project this requirement is included in the scope of the PODE WS3 project and will be hosted by NESO. NESO sits at the ideal within the Electricity industry as it has links both with DNOs and TOs.

The design of this area is still to be finalised, but it is considered that when a party uploads data to this area to meet their obligations under the GC0139 drafted Planning Code changes, the relevant parties to which this data is to be provided will be notified, so they can access and download this data.

Project costs to develop and implement eMIDS

eMIDS is being developed and paid for by NESO. The project will have the usual up-front costs plus annual running and support costs. The given cost figures are estimates.

Design, Development, Testing & Training	£120K
BAU & System Support	£ 25K

NESO BAU Systems Changes

The NESO DD & T project PODE WS3 has the requirement to design, develop and commission changes to the current DNO-NESO data processing carried out by the NESO business.

This work will involve the management and support of the OLTA system, specifically looking at the consumption of and publication of the interface CIM file to and from relevant industry parties.

Development of business process to ensure the NESO can meet its Planning Code obligations under the drafted changes from GC0139. This will be a bi-annual process to deliver CIM network models and accompanying documentation at weeks 12 and 38.

NESO will also have to develop process to consume the data provided by the DNOs into its various Operations systems and work streams to ensure cost effective resource management and

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Operational resilience for the GB consumer in the management of the GB Transmission System day to day, once the proposed enhancements become mandated.

Project costs to develop and implement

The OLTA system is being developed and paid for by NESO. This development is based on enhancing the NESO current CIM model export capability and maintenance. The given cost figures are estimates.

Design, Development, Testing & Training	£250K
BAU & System Support	£ 45K

Miscellaneous

NESO

NESO is supporting the implementation of the interim GB CIM Governance and transition to the BSI lead group.

This support also includes the LTDS work group which is looking at CIM model export by DNOs.

Costs

The support of the GB CIM Governance and the transition to the BSI supported group is covered under BAU budgets. The given cost figures are estimates.

Estimated cost	£45K
BAU	£20K