

TRANSMISSION OWNER MAJOR PROJECT STATUS UPDATE - DECEMBER 2012

KEY explaining individual columns

Ref No cross refers to the associated map showing the geographical location of projects.

TO gives details of the Transmission Owner Scottish Hydro Electric Transmission plc (SHE Transmission) Scottish Power Transmission (SPT) and National Grid Electricity Transmission (NGET).

Project/Component describes the project.

Area/Transmission Boundary provides the geographical area and boundary zone(s) showing where projects are and the boundaries they will affect where relevant.

Increase in Transfer Capacity or Generation Accommodated shows how much the network capacity is expected to grow allowing greater transfer of electricity across the boundaries and/or allowing new generation to connect.

Current Project Stage: Scoping – Identification of broad need case and consideration of number of design and reinforcement options to solve boundary constraint issues;

Optioneering – TO believes that the need case is firm; design of a number of design options provided for public consultation so that a preferred design solution can be identified;

Design – Designing the preferred solution into greater levels of detail and preparing for the planning process;

Planning – Continuing with public consultation and adjusting the design as required all the way through the planning application process;

Construction – Planning consent has been granted and/or contracts have been awarded and manufacturing underway.

RAG Status (Project Stage) presents an assessment by the TO of any issues affecting the particular project stage and how they impact on the expected completion of that stage. This and the other RAG Status column only apply to projects where the TO believes that the need case is firm and has not moved (although the need case might not yet have been submitted to Ofgem for assessment). So, projects at the earliest 2 stages (scoping and optioneering) do not generally have a RAG rating. Where a project does have a RAG status: Green means that particular project stage is within 6 months of expected completion date; Amber indicates a delay of 6-12 months; and Red a delay of over 12 months.

Issues presents any substantive issues or risks identified by the TO.

Comments provides information on mitigating actions, recent or upcoming milestones, etc.

Earliest completion date refers to the date included in the ENSG 2020 Vision Update Report from Feb 2012. This indicated the earliest date a project could be completed. This is not necessarily the same as the delivery date (see below).

Delivery date is the TO's view of when the work will be completed. Implicit in some of these dates are certain assumptions about planning permission, but these entries do not prejudice those decisions. Also, these entries are not used for regulatory purposes, and might not reflect the dates in the transmission licences: for some projects, the date in this table differs from the existing date in the TO's transmission licence; for others, a date will not be determined and put into the licence until a later date.

RAG Status (against delivery date) is an assessment by the TO of meeting that delivery date: Green indicates within 6 months of required delivery date; Amber indicates a delay of 6-12 months; and Red a delay of over 12 months. Where the TO does not yet have a set view of the delivery date, this entry is blank.

Weblink provides web references for further project information from the TO.

Ref No	TO	Project / Component	Area / Transmission Boundary, where appropriate	Increase in Transfer Capacity or generation accommodated (MW)	Current Project Stage: 1. Scoping 2. Optioneering 3. Design 4. Planning 5. Construction	RAG Status (Project Stage) - TO view	Issues (including reasons for slippage, etc.)	Comments (Mitigating actions, etc.)	Earliest completion date (as per 2012 ENSG)	Delivery Date - TO view	RAG Status (Against Delivery Date) - TO view	Weblink (where available)
1HP	SHE Transmission	Beauly-Denny 400kV line	Northern Scotland (B1)	850	5. Construction		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2014 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/BeaulyDenny/
3H	SHE Transmission	Knocknagael 275/132kV Substation	Northern Scotland (B1)	50	Complete	Complete	Complete	Complete	2012 Q2	2012 Q2	Complete	http://www.sse.com/knocknagael/
3NHP	SHE Transmission	Eastern HVDC Link	NE Scotland (B4) to NE England (B6, B7, B7a)	2000(B4)	2. Optioneering	See 'RAG Status Notes'	Scope definition under review. There is potential for a multi-terminal solution including a link via the SPT territory at Torness.	No additional comments	2018 Q2	Subject to assessment of revised scope.	See 'RAG Status Notes'	http://www.sse.com/EasternHVDClink/
4H	SHE Transmission	Beauly - Blackhillock - Kintore 275kV Reconductoring	Northern Scotland (B1)	300	5. Construction		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2014 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/BeaulyKintore/

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7H	SHE Transmission	Beauly - Dounreay - 2nd 275kV circuit	Northern Scotland (B0)	100	5. Construction		Some contractor delays.	Work continuing through winter period.	2012 Q4	Q1 2013		http://www.sse.com/dounreaybeauly/
9H	SHE Transmission	Shetland HVDC Link	Island Link	600	3. Design		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2017 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/Shetland/
11HP	SHE Transmission	East Coast 400kV Upgrade	Northern Scotland (B2/B4)	TBC	4. Planning		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2017 Q1	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/ECR400kv/
12H	SHE Transmission	Beauly - Mossford 132kV Line & Switch Substation	Northern Scotland (Radial circuit)	300	4. Planning (OHL) 5. Construction (S/stn)		Line consent received. Attached conditions under assessment.	Programme under review. Updated status will be included in March 2013 update.	2014 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/beaulymossford/
13HP	SHE Transmission	Hunterston - Kintyre 240MVA AC subsea link	Northern Scotland (B3) to Central Scotland (B3)	Up to 350MW additional generation	4. Planning		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2015 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/KintyreHunterston/
14H	SHE Transmission	Western Isles HVDC Link	Island Link	450	4. Planning		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2015 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/WesternIsles/
17H	SHE Transmission	Orkney 132kV Subsea Link	Island Link	180	3. Design		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2015 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/OrkneyCaithness/
21H	SHE Transmission	Caithness-Moray HVDC Reinforcement	Northern Scotland (B1)	600	3. Design		Programme under review. Updated status will be included in March 2013 update.	Programme under review. Updated status will be included in March 2013 update.	2016 Q4	Programme under review. Updated status will be included in March 2013 update.		http://www.sse.com/morayfirthhub/
1HP	SPT	Beauly-Denny 400kV line	Northern Scotland (B1) to Central Scotland (B4)	1200 (B4)	5. Construction		No significant or reportable issues	Extension of new OHL from SHE Transmission boundary to a new 400kV substation at Denny. Some works to complete project will continue beyond the main connection .	2014 Q4	2015		http://www.spenergynetworks.co.uk/serving_our_customers/beauly_denny.asp?NavID=1&SubNavID=4

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1P	SPT	Incremental Reinforcement: (a) Series Compensation (b) East-West 400kV Upgrade	Central Scotland (B6) to Northern England (B6)	1100 (B6)	5. Construction		No significant or reportable issues	No additional comments	2015	2015		N/A
1NP	SPT	Western HVDC link (TII & RIIO)	Central Scotland (B6) to NW England (B6, B7, B7a)	2200 (B6)	5. Construction		Land acquisition at Hunterston continues to be difficult.	Compulsory purchase process is well underway and Reporter has been appointed.	2015	2016 Q1		Western HVDC Link - Welcome
2NP	SPT	Central 400kV Upgrade (Denny – Wishaw)	Northern to Central Scotland (B4), Central Scotland (B5) and Central Scotland to Northern England (B6)	1700 (B5)	3. Design		No significant or reportable issues	Two options are being evaluated known as the East Coast upgrade or the Central 400kV upgrade providing up to 600MW and 1700MW B5 transfer capability increases respectively	2017	2017		N/A
3NHP	SPT	Eastern HVDC Link	Scotland (B6) to Northern England	2000(B6)	2. Optioneering	See 'RAG Status Notes'	No significant or reportable issues	Development of an integrated offshore approach to incorporate 4GW wind contracted in Forth for connection 2019-21.	2018	2019	See 'RAG Status Notes'	N/A
1NP	NGET	Western HVDC link - HVDC cable and converters	Central Scotland (B6) to NW England (B6, B7, B7a)	2200	5. Construction		Application for Full Planning consent for the Southern converter station, following a design review by the Design Commission for Wales and there being no statutory objectors, was recommended for approval by Flintshire County Council's Planning Officers but was rejected by Flintshire County Council Planning Committee in October 2012.	The refusal of the detailed planning application at the 10th October 2012 planning committee is being appealed. A planning permission application is also being made for an alternative site. Negotiation underway with Engineering, Procurement and Construction (EPC) contractor to minimise impact on project timescales	2015	2016 Q1		http://westernhvdcink.co.uk/
2NP	NGET	Scotland-England Reinforcement (Series and shunt compensation)	Central Scotland (B6) to Northern England (B6)	1000	5. Construction		First application of Series Compensation in UK. Sub-Synchronous Resonance risk currently being evaluated.	Preferred supplier to be announced December 2012	2015	2014		N/A
3NHP	NGET	Eastern HVDC Link	NE Scotland (B4) to NE England (B6, B7, B7a)	2000 (B6) 1000 (B7) 700 (B7a)	2. Optioneering	See 'RAG Status Notes'	No significant or reportable issues	NGET, SPT, and SHET have entered into a joint working agreement and are progressing the development of the project collaboratively. A preferred design option has now been selected.	2018	2019	See 'RAG Status Notes'	N/A
4N	NGET	Western HDVC Link: - Deeside / Connah's Quay substation	Northern Wales and NW England	N/A	5. Construction		No significant or reportable issues	Construction started on Deeside substation only.	2015	2015 Q2		N/A
5N	NGET	Scotland-England Reinforcement (Harker-Hutton reconductoring)	Northern England (B7)	1400	5. Construction		Volume of work in a single outage season is high	Project in construction and progressing to programme	2014	2013 Q4		N/A

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6N	NGET	North Wales (New 400 kV, Pentir – Wylfa Transmission circuit)	North Wales (NW1)	2600	2. Optioneering	See 'RAG Status Notes'	The Planning Act 2008 requires that this application for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Public consultation is underway	2018	2017 Q4	See 'RAG Status Notes'	http://www.northwalesconnection.com/
7N	NGET	North Wales (Second Pentir – Trawsfynydd 400 kV Transmission circuit)	North Wales (NW2)	3100	2. Optioneering	See 'RAG Status Notes'	The Planning Act 2008 requires that this application for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Cable route selection and Bryncir substation. Bryncir substation would be a new development – Optioneering mid-2013	2016	2016 Q2	See 'RAG Status Notes'	N/A
8N	NGET	North Wales (Deeside – Trawsfynydd series compensation)	North Wales	TBC	2. Optioneering	See 'RAG Status Notes'	Sub-synchronous Resonance risk not fully evaluated. Lack of land availability at Pentir may lead to extended period of site selection.	Site selection process to commence when ongoing requirements are confirmed in light of new Anglesey-Pembroke HVDC cable	2015	2017 Q2	See 'RAG Status Notes'	N/A
9N	NGET	North Wales (Reconductor Trawsfynydd – Treuddyn)	North Wales (NW3)	1500	5. Construction		Winter outages for 2012 stage of work may lead to incomplete work and compressed programme in 2014 to catch up	Full sanction achieved and full PMI released in March 2012 for delivery 2012-14	2014	2014 Q4		N/A
10N	NGET	Wylfa-Pembroke HVDC Link	North Wales (NW1, NW2, NW3, NW4)	2000-2500	1. Scoping	See 'RAG Status Notes'	The delivery date has been pushed back after the business need case reviewed.	Pre-construction works programme has been adjusted to reflect the revised completion year.	2017	2025 Q3	See 'RAG Status Notes'	N/A
11N	NGET	Central Wales (Mid Wales 400kV substation and Transmission circuit)	Central Wales	1800	4. Planning		The Planning Act 2008 requires that this application for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Development works are continuing in order to meet the connection date of 31 October 2017	2016	2017 Q4		http://www.midwalesconnection.com/
12N	NGET	Humber - Killingholme South New Substation (KISO); and new transmission circuit from KISO to West Burton	NE England (EC1)	2900	2. Optioneering	See 'RAG Status Notes'	The Planning Act 2008 requires that this application for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State. Changes in the offshore connection strategy	No additional comments	2018	2019	See 'RAG Status Notes'	N/A
13N	NGET	East Anglia (i) Reconductoring Bramford-Norwich + (ii) Bramford Substation Reconfiguration	East Anglia (EC5)	1100	5. Construction		The delivery date has been pushed back after the business need case reviewed.	No additional comments	2015	i) 2018 ii) 2016 Q4		N/A
14N	NGET	East Anglia (New Bramford – Twinstead 400kV Transmission circuit)	East Anglia (EC5)	2500	4. Planning		The Planning Act 2008 requires that this applications for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Connection options report- Consultation feedback published 25th October 2012, detailing preferred alignment for sections C to G	2018	2017 Q4		http://www.bramford-twinstead.co.uk/
15N	NGET	London (Uprate Hackney – Tottenham – Waltham Cross circuit to 400kV+ Pelham Rye House Reconductoring)	London (B14)	800	4. Planning		The Planning Act 2008 requires that this applications for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Development Consent Order (DCO) application submitted September 2012. Construction is planned to commence in February 2014.	2015	2016 Q4		http://www.northlondonreinforcement.com/

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16N	NGET	South West (Hinkley Point – Seabank and assoc. infra. Works)	SW England (B13)	2400	4. Planning		The Planning Act 2008 requires that this application for development consent be examined by the determining authority (Planning Inspectorate) and determined by the Secretary of State.	Bridgwater –Seabank route alignment has been announced. Public consultation period on this is 6th November - 18th December. At the end of this phase, NGET will prepare for the Section 42 (S42) formal consultation on the whole project as required under the Planning Act 2008.	2019	2019		http://www.hinkleyconnection.co.uk/