



## **Joint TSO/TAO Grid25 CAPEX Monitoring Report**

### **Explanatory Notes and Transmission Projects Chart Q4 2015**

**Report for the period Q4 2015  
1<sup>st</sup> October 2015 – 31<sup>st</sup> December 2015**

**Contents**

Introduction ..... 3

1. Project Schedule RAG Status Information ..... 4

2. Project Stage Information ..... 5

3. Project Milestones ..... 5

4. Associated Transmission Reinforcements – Further Information ..... 6

5. Additional Project Information ..... 7

Appendix1: Transmission Projects Chart

## Introduction

This document and the attached transmission projects chart represent one aspect of the wider Capex Monitoring process in PR3. In addition to the report, which can only provide limited context, the submissions will be complemented by meetings with the CER at which greater context and information can be provided on project progress. The period covered by this report 1<sup>st</sup> October 2015 – 31<sup>st</sup> December 2015 inclusive.

The explanatory notes refer to the Joint TSO/TAO Grid25 CAPEX Monitoring Report (“joint report”) which is a quarterly report that is prepared by EirGrid (TSO) and ESNB (TAO) for the CER. The joint report is in the format as agreed at the meeting with the CER on 22<sup>nd</sup> February 2011. The report presents a project timeline, where relevant, for all capital projects with a total forecast expenditure of greater than €10 million. Each section below provides an outline of the main themes contained in the joint report.

1. Project schedule RAG (Red, Amber, Green) status information
2. Project stage information
3. Project milestones

## 1. Project Schedule RAG Status Information




1.1 The project name is defined by the TSO and/or TAO at the outset of a capital project (CP) and is used by both organisations in the management of the project within the transmission capital works programme. New projects are accorded a CP number by the TSO at the request of the TSO project manager (PM) prior to reaching the TSO capital approval/decision point (CA/D).

### 1.2 Descriptor:

- Pre-IP (Indicative Programme) – Schemes or projects that have not yet reached Capital Approval /Decision point (CA/D) will not have an IP, however, certain high level target dates may be expected. These dates, such as target energisation dates, are based on studies that have been carried out by EirGrid’s transmission planners during the pre-stage 1 project phase. The schedule as outlined for these schemes/projects may not include all milestones as the project schedule has not yet been baselined.
- A scheme is an expected transmission network solution that may contain one or more individual projects, which are in the process of being defined, as they progress through the TSO’s project roadmap. As further information is known about these individual projects they will be given their own schedule and project timeline.
- Indicative Programme (IP) - The IP is a high level project schedule and programme which is formalised and issued by the TSO PM to the TAO after the TSO CA has been achieved, at the beginning of stage 1. The IP incorporates standard project timelines, the Infrastructure Agreement (IA) timelines and a target energisation date. These milestones are included within the joint report as the project baseline against which future progress will be measured (top line schedule). Prior to Project Agreement being achieved this schedule reflects standard timelines.
- Project Agreement – The Project Agreement (PA) is an agreement between the TSO and TAO to progress the permitted, scoped and designed capital project to construction at stage 2. In advance of PA TAO complete a preliminary design and costing and submit to TSO in the Project Implementation Plan (PIP) document. After TSO has reviewed and accepted the PIP and Project Agreement has been reached, the project moves to the detailed design stage. The Project Agreement timeline reflects the timeline which was included in the PIP.
- Actual/Forecast – This is a representation of the actual project schedule as measured against either the IP baseline, or the PA revised baseline, depending on the actual phase of the project. The red line is included to show the current date. Any milestones to the left of the red line are in the past and have actually occurred, while milestones to the right are forecast.

### 1.3 Schedule RAG





The schedule RAG will be depicted using the following rule-set and icons:

Schedule - RAG Status Rules	
When milestone </= target date	
When milestone > target and </= target + 6 months/2xQ	
When milestone > target + 6 months/2xQ	

#### 1.3 Schedule RAG rule-set

## 2. Project Stage Information

2.1 The TSO and TAO use the terminology relating to the various stages of the project lifecycle as outlined below. This is reflected in the joint report using the corresponding colours as illustrated.







Key - Stages	
	Pre-stage 1 or Pre-IP
	Stage 1
	Stage 2
	

### 2.1 Project stages

Transmission projects are divided into 3 stages as shown in figure 3.1. Pre-stage 1 activities include project identification and feasibility studies to the capital approval stage. Stage 1 activities include project consenting from capital approval to project agreement and stage 2 includes projects from project agreement to completion.


## 3. Project Milestones


3.1 The following key milestones are those which it is proposed to report on within the joint report. Each milestone will be shown as occurring within a specific quarter. Where two or more milestones occur within the same quarter the latter milestone will be shown and a comment will be included in order to document the occurrence of any previous milestones. Please note that for projects that have not yet reached the PIP stage the energisation date is typically shown as occurring at the end of the outage season in a given year.

Key - Milestones	
	EirGrid CA
	Planning Application lodged
	CPP issued
	PIP issued
	Project Agreement
	Energisation

### 3.1 Project Milestones

### 3.2 Recording of milestones achieved/not achieved.

Where a programme milestone has been achieved as per the baseline schedule the following symbol  will be used to record the occurrence.

Where a programme milestone has not been achieved as per the baseline schedule the following symbol  will be used to record to missed milestone. In this case the actual/forecast schedule line will record the predicted/occurrence of that milestone.

## 4. Associated Transmission Reinforcements – Further Information

Information on the progress of Associated Transmission Reinforcements (ATRs) can be found on the Customer section of EirGrid's website at the following link:

<http://www.eirgridgroup.com/customer-and-industry/general-customer-information/>

### Associated Transmission Reinforcements (ATRs)

Associated Transmission Reinforcements are new or upgraded transmission infrastructure projects which have been identified as delivering capacity for new generation projects.

They relate to dates for the connection of generation projects in the group process for connection applications. They are also of assistance to customers looking at Firm Access (financial conditions around a generator's output and connection).

EirGrid regularly publishes the list of Transmission Reinforcements associated with Gate 1, 2, 3 and Non-GPA projects and the most recent documents are below.

Background documents on this topic include the CER FAQ Calculation Direction issued on the 23 June 2011 (CER/11/102) and the subsequent Firm Access Quantity (FAQ) analysis undertaken by EirGrid as the Transmission System Operator in 2012.

In the ATR documents below, the first column of dates is the assumed completion date for each ATR.

The freeze date for these assumed completion dates was July 2012. The second column of dates shows the latest update on the completion date or scheduled completion date of ATRs. Where the scheduled FAQ date for a project changes as a result of a change to the scheduled completion date of an ATR for that project, or when an ATR is completed, the customer is notified in writing by their System Operator.

#### ATR Website Updates:

[Q3 2015 ATR Website Update - published 28-Oct-2015](#)

[Q2 2015 ATR Website Update - published 31-Jul-2015](#)

[Q1. 2015 ATR Website Update - published 30-Apr-2015](#)

Updates for previous years can be found in our [Library](#) section.

An Information Note on the sequencing of transmission projects is available [here](#).

## **5. Additional Project Information**

### **5.1 CP0054 Ardnacrusha 110 kV Station Refurbishment / Replacement**

Work will be completed over two outage seasons starting in 2016, with the overall project expected to be completed in 2017. The ATR works will not be completed until 2017.

### **5.2 CP0421 Binbane - Letterkenny 110 kV Line - New Line & Associated Station Works**

The works required to achieve the ATR were completed in 2014. The quarterly report shows two different completion dates for this project, one is the expected ATR completion date and the other is the overall project completion date.

This is consistent with the ATR information provided on EirGrid's website as outlined in section 4, Associated Transmission Reinforcements – Further Information, of this report.

### **5.3 CP0399 Kilpaddoge - Moneypoint 220 kV Cable**

Due to technical difficulties experienced with the equipment at the new Kilpaddoge substation the ATR completion date for this project has been changed to 2016. Investigations are ongoing between ESB Networks and the manufacturer. Laying of the cables is expected to be completed in Q1 2016.

### **5.4 CP0800 North West Project and RIDP ATR**

Two completion dates are shown. The ATR date of 2027 is associated with the Renewable Integration Development Project (RIDP) scheme which includes a number of proposed projects. The project CP0800 North West, one of the projects in this scheme, is currently on hold.

### **5.5 CP0623 Great Island 220 kV Station Upgrade**

The ATR works associated with this project were confirmed as complete in 2014. There are non-ATR related works which are expected to continue into 2016.

### **5.6 CP0667 Inchicore - Maynooth 1 & 2 220 kV line uprate**

These works were expected to be complete before the end of Q4 2015. However EirGrid has rescheduled an outage for the remaining works to 2016 due to the mutual exclusivity with the forced outage (due to third party dig in) of the Inchicore-Poolbeg No. 1 220 kV cable in 2015. These are non-ATR impacting works and the ATR was previously confirmed as complete in early 2014.

### **5.7 CP0197 Cushaling (Mount Lucas) – Thornsberry 110 kV Line – New Line**

The planning permission for this ATR project has expired. A new planning application is currently under consideration. The completion date for this project has been revised to 2017.

### **5.8 CP0763 Uprate of Ballyvouskill – Clashavoon and Kilpaddoge – Knockanure and refurbishment of Kilpaddoge – Tarbert 220 kV circuits and associated works**

The completion of this ATR has been changed to Q4 2016. The impacted TSO and DSO Generators were informed of this change by letter in Q4 2014.

#### **5.9 CP0580 Carrickmines 220 kV Station – New 220 kV GIS**

This project has been dissociated as an ATR due to the fact that the Generator's connection offer has lapsed. The forecast completion date for the project has been revised to 2017 due to outage related complexities and circuit transfer elements of the programme.

#### **5.10 CP0883 - Uprate of the Ballynahulla – Ballyvouskill and Ballynahulla – Knockanure 220 kV circuits and associated works**

The completion of this ATR has been changed to Q4 2017. This is due to a requirement for a planning permission arising from a stage 2 Appropriate Assessment.

#### **5.10 CP0688 – Moneypoint GIS 220/110 kV Station**

The energisation of the new Moneypoint 220/110 kV GIS station is dependent on the installation of the new submarine cable from Kilpaddoge 220 kV station which is due for completion in early 2016. In addition, asset separation is required between generation and transmission assets at the Moneypoint site. As a result, the energisation date has moved from 2015 to 2017.

#### **5.10 CP0501 Clashavoon – Dunmanway 110 kV new line**

The completion date of this project has been changed from 2016 to 2017 due to a requirement for additional planning permission.

#### **5.11 CP0500 - Knockanure (North Kerry) 220 kV Station**

The completion date of this project has been changed from 2015 to 2016 due to landowner and construction issues in the region which have had a knock-on impact on the project.

#### **5.12 CP0647 - Kilpaddoge 220/110 kV Station**

The energisation of the new Kilpaddoge 220 kV GIS station was completed on 22nd September 2015. The remaining 110 kV works and circuit transfers will take place in 2016. There are no FAQ impacts with this change in completion date as this project is not an ATR.





Schedule RAG	Project Name	Schedule descriptor	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	ATR YEAR
<b>Key - Stages</b>																	
	Pre-stage 1 or Pre-IP																
	Stage 1																
	Stage 2																
<b>Schedule - RAG Status Rules</b>																	
	When milestone <= target date																
	When milestone > target and <= target + 6 months/2Q																
	When milestone > target + 6 months/2Q																
<b>Energised Projects</b>																	
Schedule RAG	Project Name	Descriptor	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	ATR Status
	CP0608 - Trien 110 kV Station (Shallow connection works for Cloghbooka)	Indicative Programme Project Agreement Actual/Forecast															Not an ATR, (Shallow, Yes)
	CP0657 - Ikerrin - Thurles 110 kV line uprate	Indicative Programme Project Agreement Actual/Forecast															2015
	CP0745 - Cathaleen's Fall - Srananagh No. 2 110 kV line uprate	Indicative Programme Project Agreement Actual/Forecast															2014
	CP0228 - Marina 110 kV Station - Station Replacement	Indicative Programme Project Agreement Actual/Forecast															2014
	CP0717 - Clashavoon Knockraha 220 kV line uprate	Indicative Programme Project Agreement Actual/Forecast															2013
	CP0696 - Marina - Trabeg 1 & 2 cable uprate	Indicative Programme Project Agreement Actual/Forecast															2013
	CP0292 - Gorman-Meath Hill 110 kV Line - New Line	Pre-vesting Project Agreement Actual/Forecast															
	CP0374-Arva Shankill No. 2 110 kV Line - New Line	Pre-vesting Project Agreement Actual/Forecast															
	CP0664-Cullinagh-Knockraha Line Upate	Indicative Programme Project Agreement Actual/Forecast															
	CP0211-Srananagh 220 kV Project - New 220 kV Station	Indicative Programme Project Agreement Actual/Forecast															
	CP0656-Arklow Crane 110 kV Line Upate	Indicative Programme Project Agreement Actual/Forecast															
	CP0254-Dalton-Galway 110 kV Line - Loop into Casha 220 kV Station	Pre-vesting Project Agreement Actual/Forecast															
	CP0246-Tarbert-Tralee No.2 110 kV Line - New line	Indicative Programme Project Agreement Actual															
	CP0660-Cashla Ennis - 110 kV Line Upate	Indicative Programme Project Agreement Actual															
	CP0659-Arva-Navan 110 kV Line Upate	Indicative Programme Project Agreement Actual															
	CP0587-Glanagow-Raffeen 220 kV Cable Project	Indicative Programme Project Agreement Actual															
	CP0588-Kilbarry-Mallow 110 kV Line Upate	Indicative Programme Project Agreement Actual															
	CP0241-Lodgewood 220 kV station - New station	Pre-vesting Project Agreement Actual															
	CP0201-Athy 110 kV station - New station	Pre-vesting Project Agreement Actual															
	CP0175-Charleville-Kilnanon 110 kV line uprate	Indicative Programme Project Agreement Actual															
* NOTE: Actual figures provided for Energised projects are subject to change due to some costs that are still outstanding																	
<b>EirGrid Pre-CA Projects</b>																	
Schedule RAG	Project Name	Descriptor	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	ATR Status
	Dublin Area Plan Scheme 1 - Maynooth-Woodland-400 kV Scheme	Pre-IP Project Agreement Actual/Forecast															2020
	Dublin Area Plan Scheme 2 - Huntstown-Woodland 400 kV Scheme	Pre-IP Project Agreement Actual/Forecast															Not an ATR
<b>Terminated Projects</b>																	
Schedule RAG	Project Name	Descriptor	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	ATR Status
	CP0506-Finnstown 220 kV Station	Indicative Programme Project Agreement Actual/Forecast															
<b>On Hold Projects</b>																	
Schedule RAG	Project Name	Descriptor	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	ATR Status
	CP0800 - The North West Project	Pre-IP Project Agreement Actual/Forecast															2027 * See Explanatory Notes
	CP0816 - North Connaught 110 kV Network Reinforcement	Pre-IP Project Agreement Actual/Forecast															2022
	CP0721 - Grid West 400 kV project	Indicative Programme Project Agreement Actual/Forecast															Not an ATR, (Shallow, Yes)