

# TOP24 Overview



# TOP24 Overview

The following slides are intended to give an overview of our TOP24 performance, focusing on the following:

- Percentage of works included in the TOP24 baseline that were complete, and reasons for the works that were incomplete.
- A review of slides presented on this topic back in February, detailing which works proceeded as planned or not.
- A look at additional works completed throughout the year.

# TOP24 Performance Overview

TOP24 baseline programme included 810 outage weeks, which is higher than in previous years.

74% of the works planned within TOP24 were complete, which is also higher than previous years.

Of the 26% of incomplete works, our initial analysis shows the following, high level reasons for incompleteness:

- Outage availability (e.g. Generator FO's, unplanned FO's) - 4.6%
- On-site / early project delays - 12.3%
- Alternative project plan - 6.0%
- Land access - 1.7%
- Customer programme - 1.4%

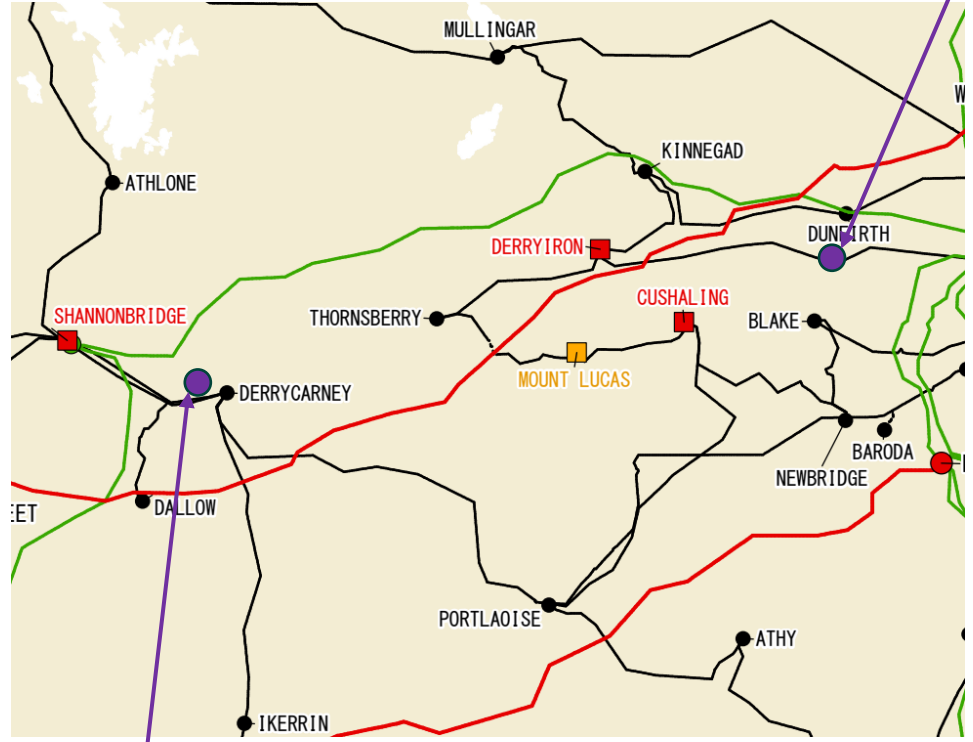
# New Connections

- CP1272 Derryiron Busbar Upgrade - Complete/ongoing
- CP1041 Timahoe 110 kV Station - Timahoe 70 MW Solar Farm - Complete
- CP1329 Stonestown 110 kV Station - Derrinlough 105 MW Wind Farm - Complete
- CP1145 Rathnaskilloge 110 kV Station - Rathnaskilloge 95 MW Solar Farm - Complete
- CP1136 Deenes 110 kV Station - Gaskinstown 85 MW Solar Farm - Ongoing
- CP1088 Greenlink - Loughtown 220 kV Station & Campile Converter Station - Complete
- CP1293 Oldpier 220 kV Station - Tarbert TEG Phase 2 - Complete

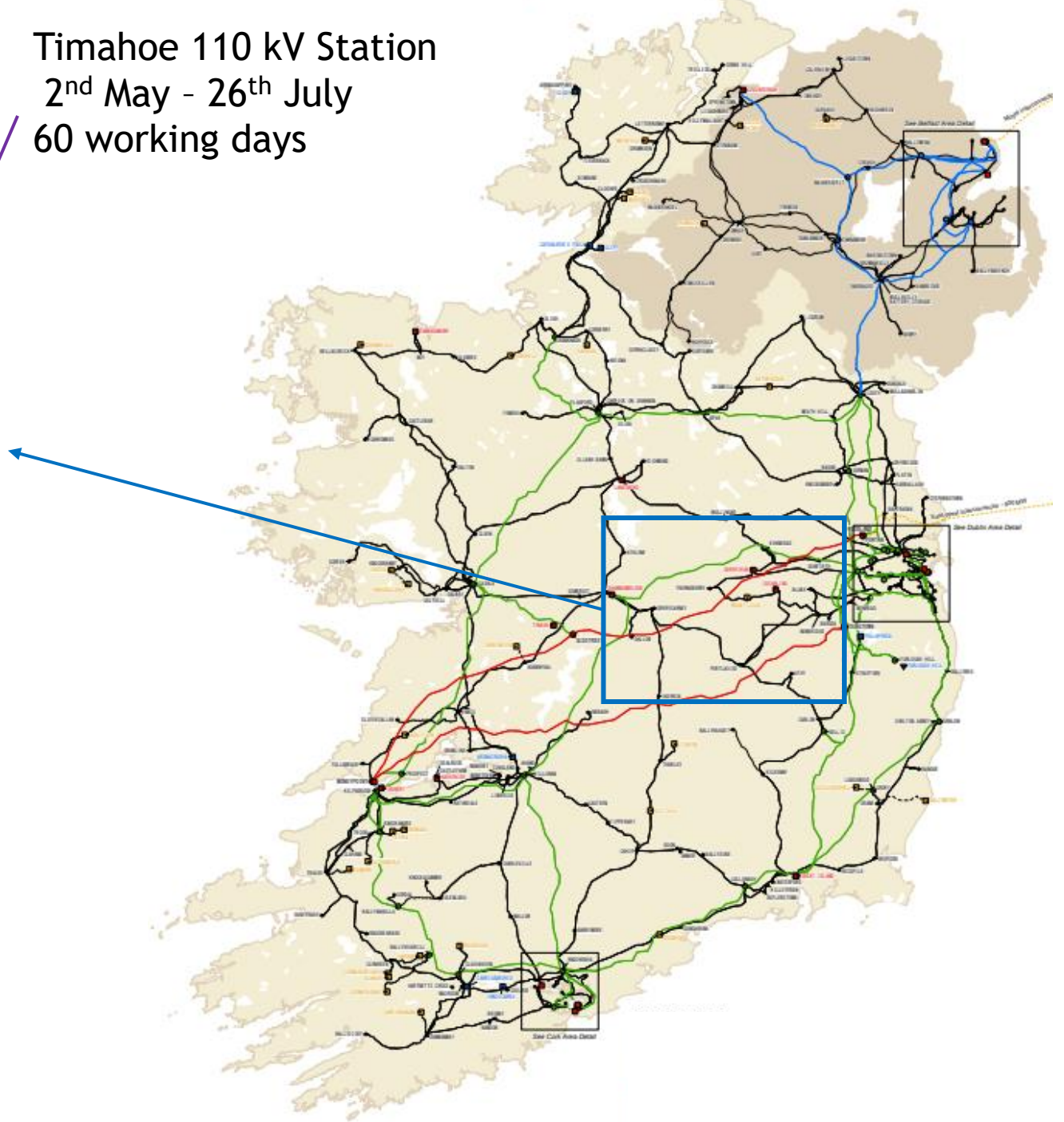




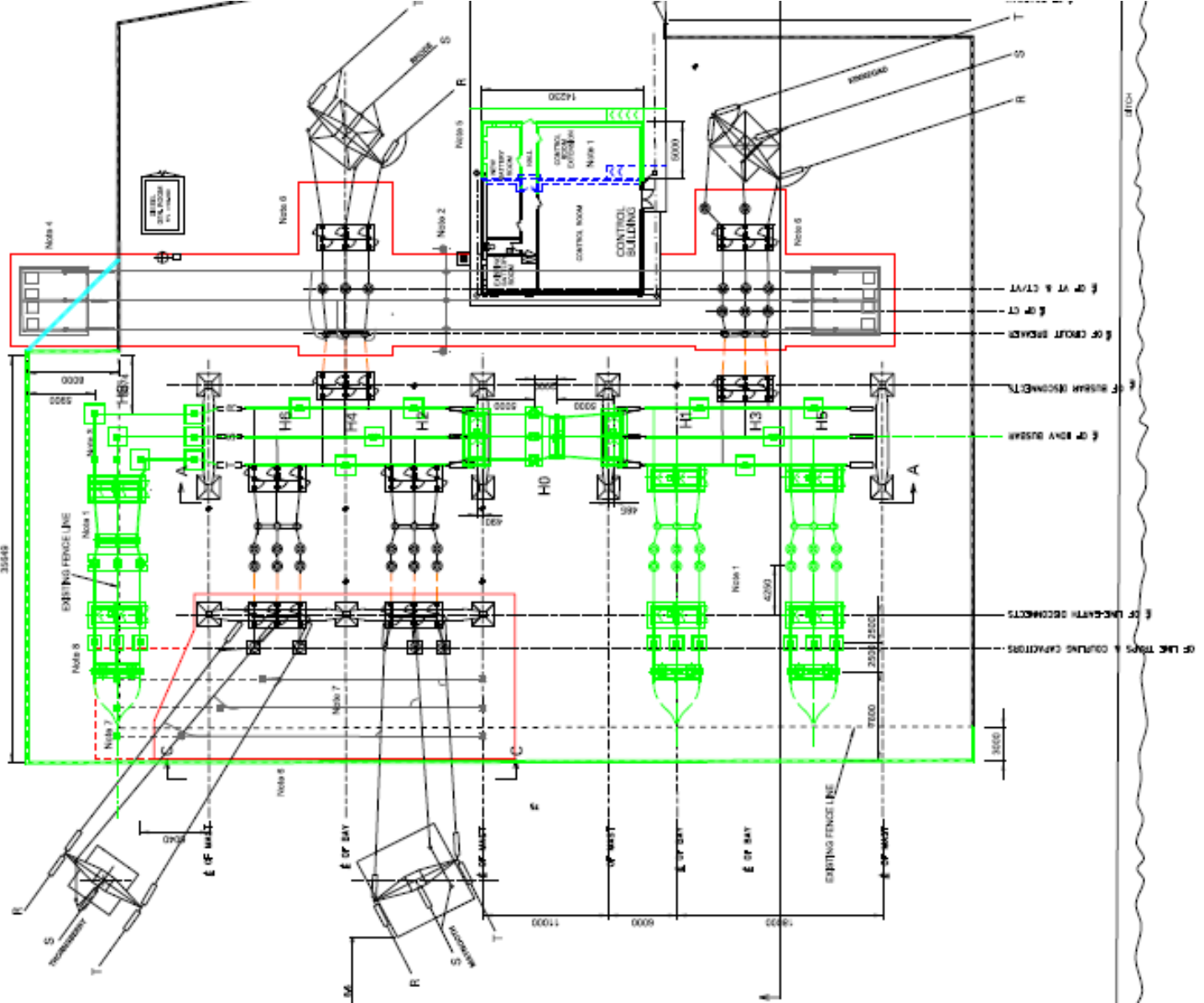
Timahoe 110 kV Station  
2<sup>nd</sup> May - 26<sup>th</sup> July  
60 working days



Stonestown 110 kV Station  
26<sup>th</sup> March - 21<sup>st</sup> August  
100 working days



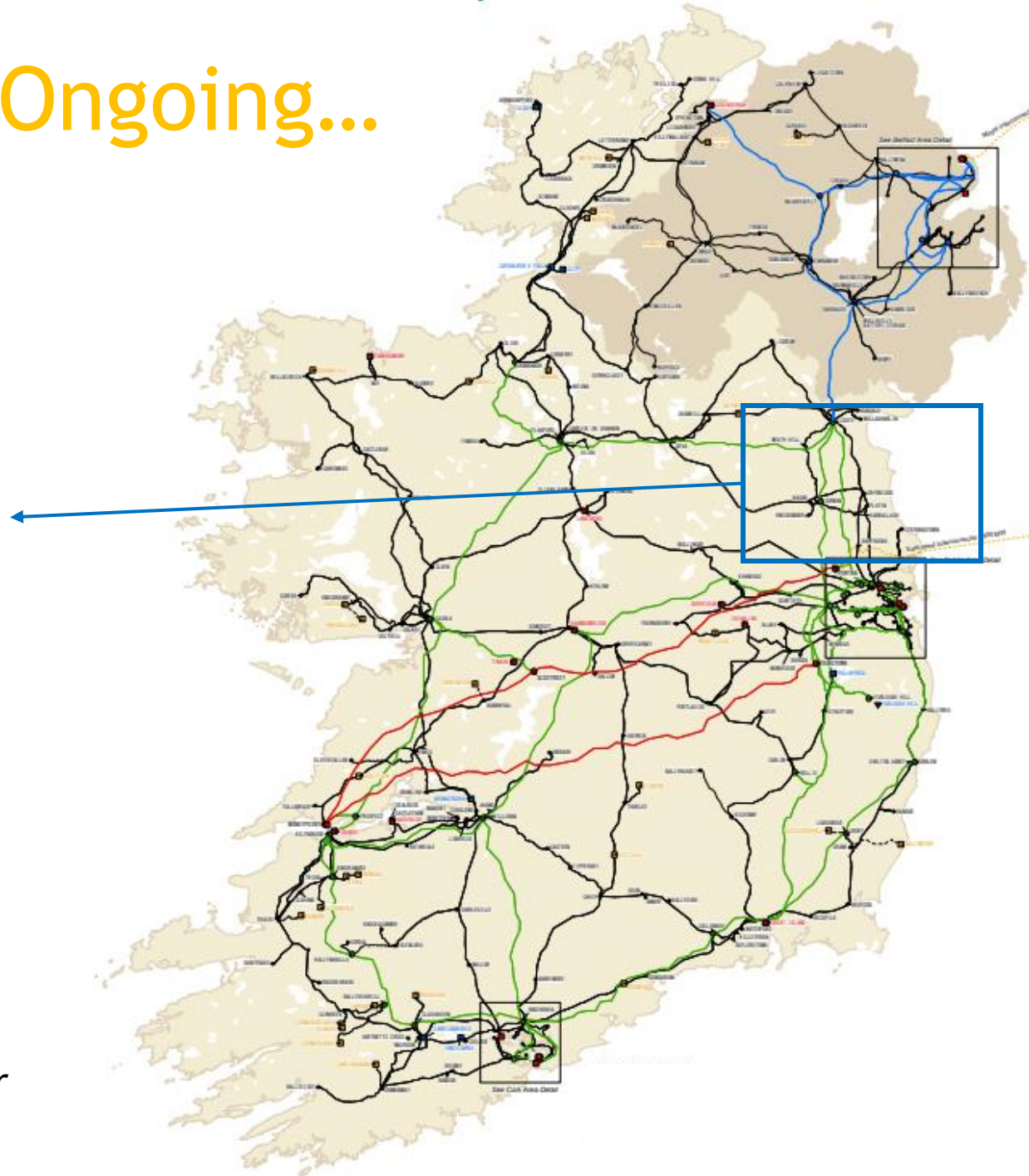
# CP1272 Derryiron Busbar

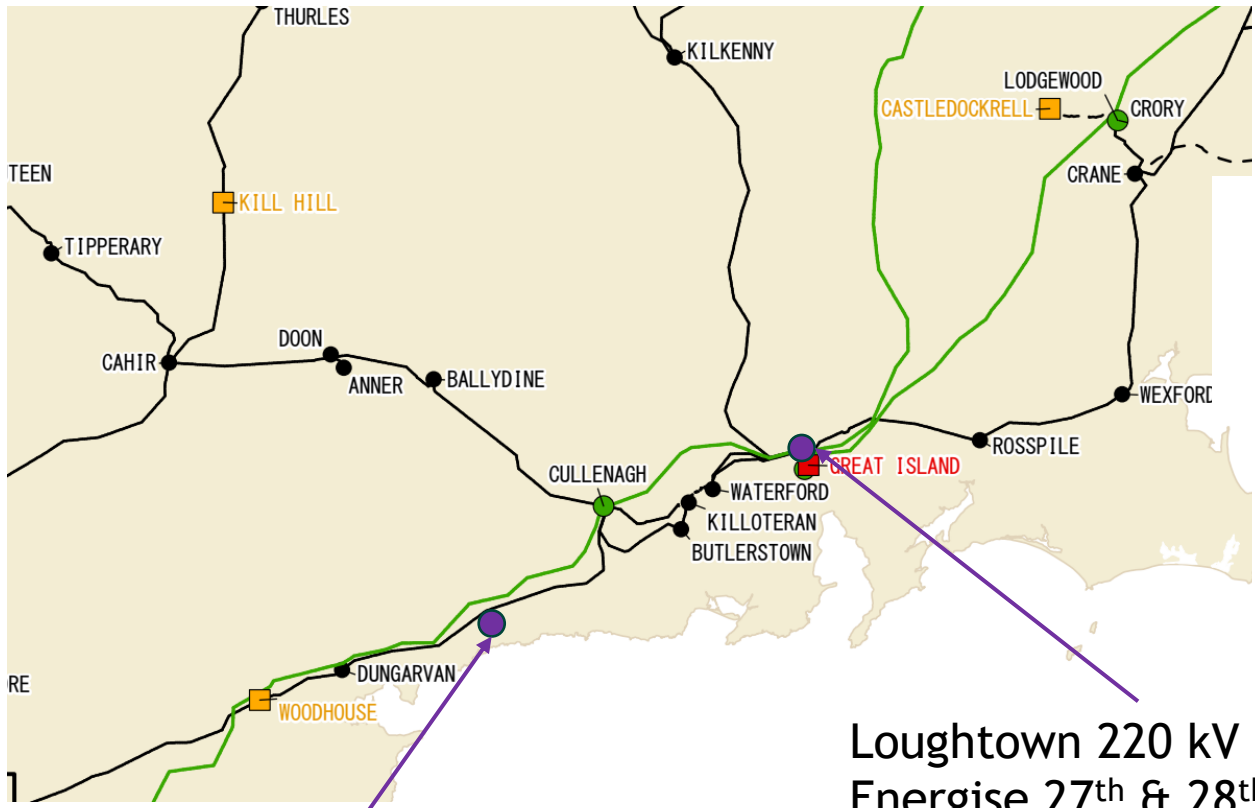


# Ongoing...



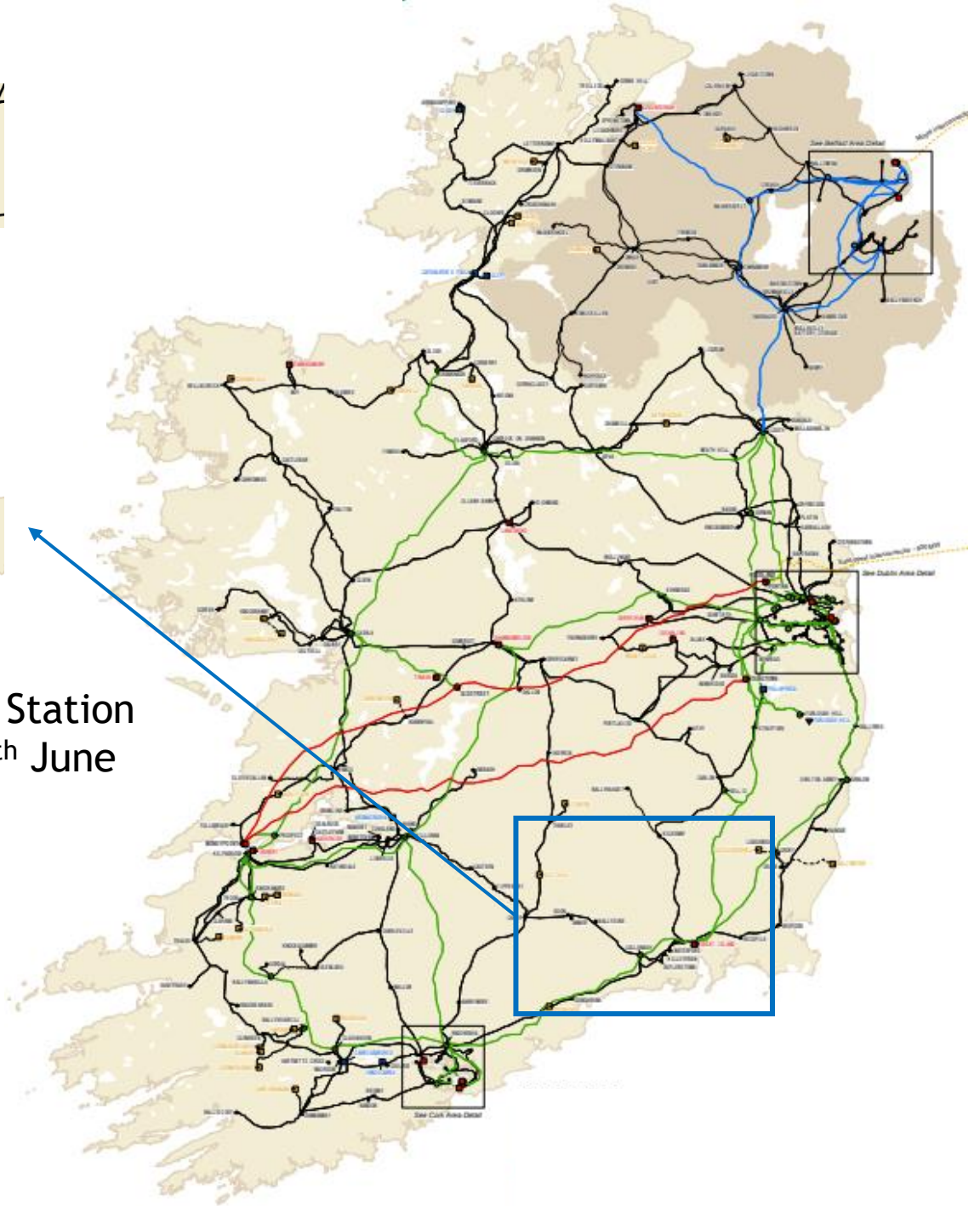
Deenes 110 kV Station  
22<sup>nd</sup> April - 18<sup>th</sup> September  
105 working days



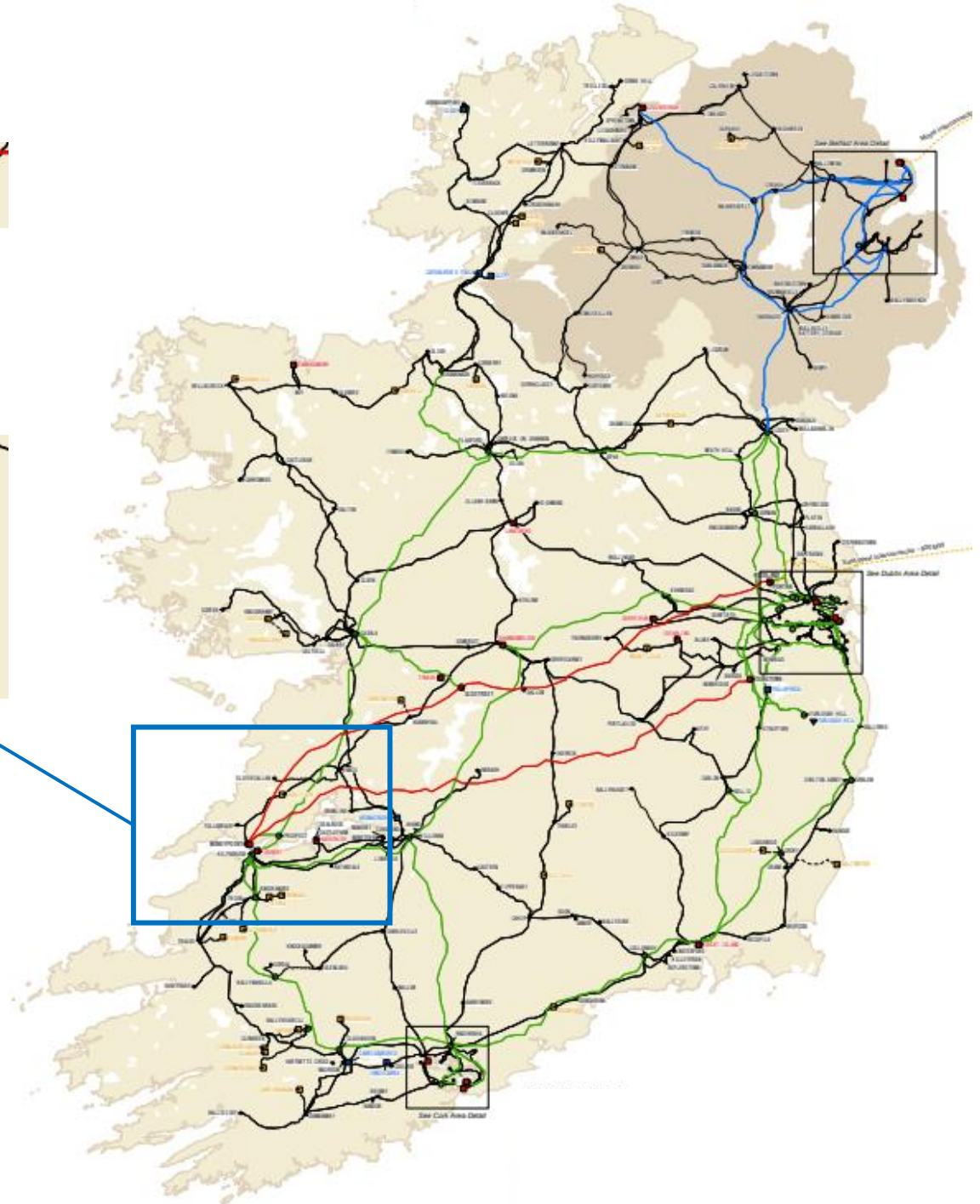
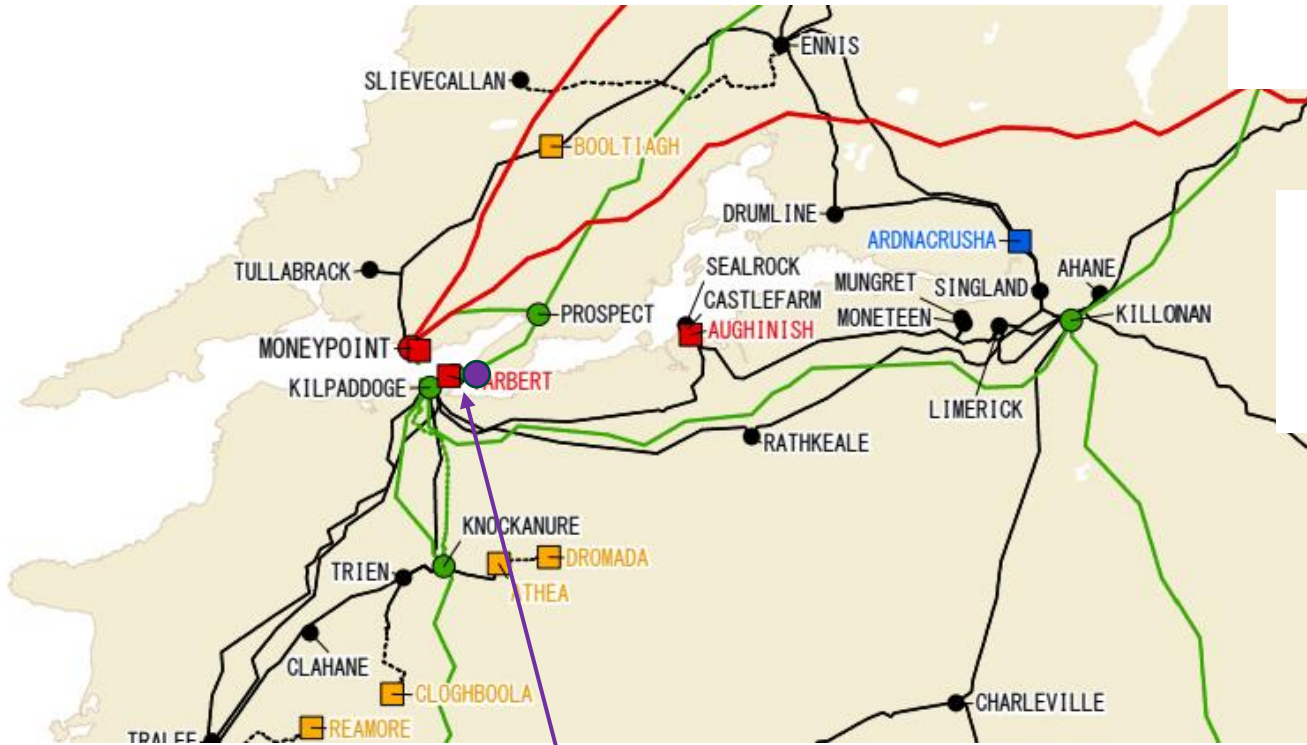


Loughtown 220 kV Station  
Energise 27<sup>th</sup> & 28<sup>th</sup> June

Rathnaskilloge 110 kV Station  
8<sup>th</sup> July - 15<sup>th</sup> October  
71 working days







Oldpier 220 kV Station  
 Tarbert A1 B1 220 kV half station, January to July  
 Energising 11<sup>th</sup> & 12<sup>th</sup> July



# Network Upgrades

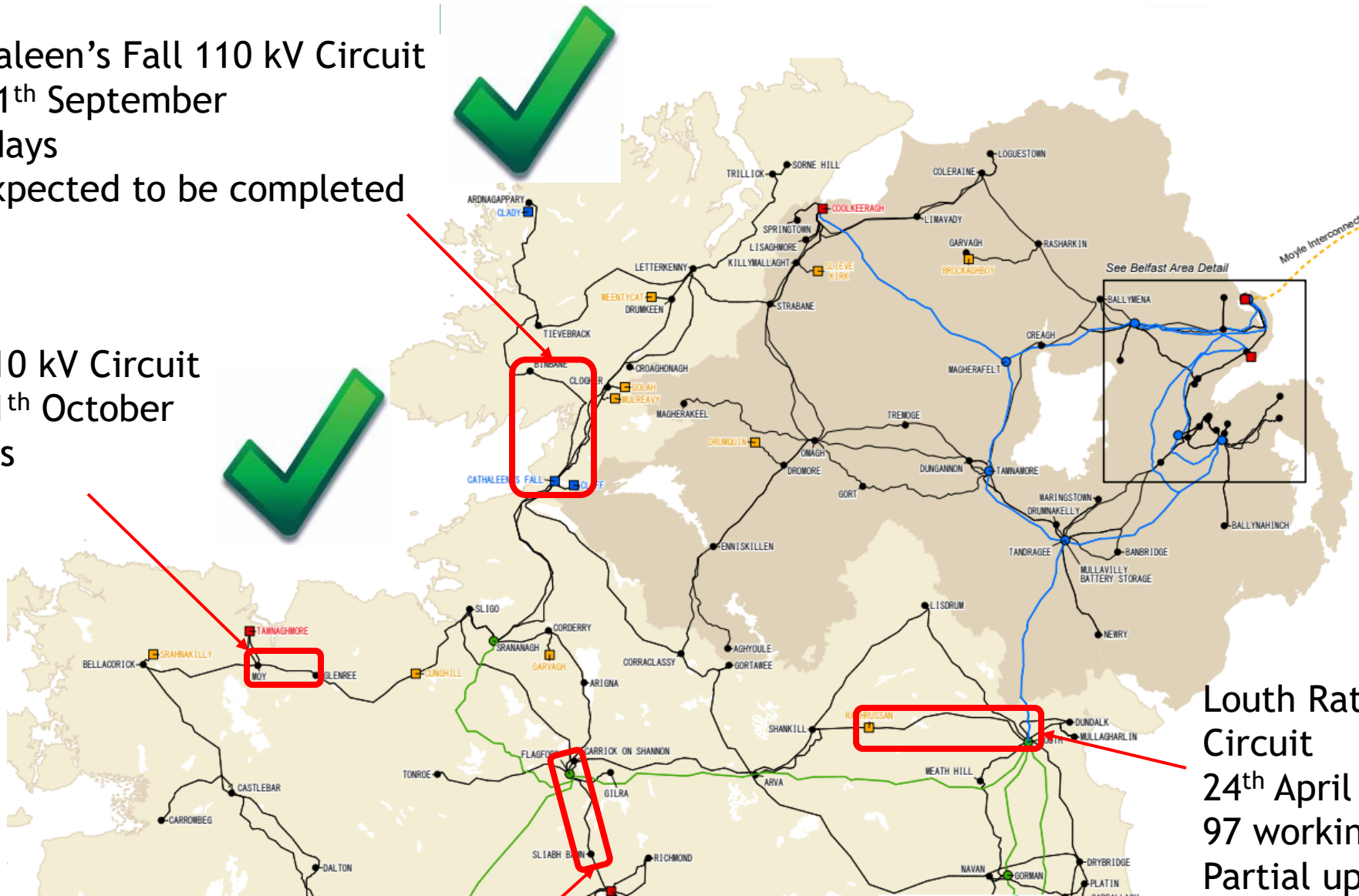
## Line Upgrades

- CP0817 Flagford Sliabh Bawn 110 kV Circuit (partial) - Complete (not full upgrade)
- CP1079 Binbane Cathaleen's Fall Circuit - Complete
- CP0905 Louth Ratrussan 110 kV Circuit (partial) - Complete (not full upgrade)
- CP1155 Glenree Moy 110 kV Circuit (partial) - Complete (not full upgrade)
- CP0869 Kellystown Woodland 220 kV Circuit - Complete
- CP1172 Crane Wexford 110 kV Circuit (partial) - Complete (not full upgrade)



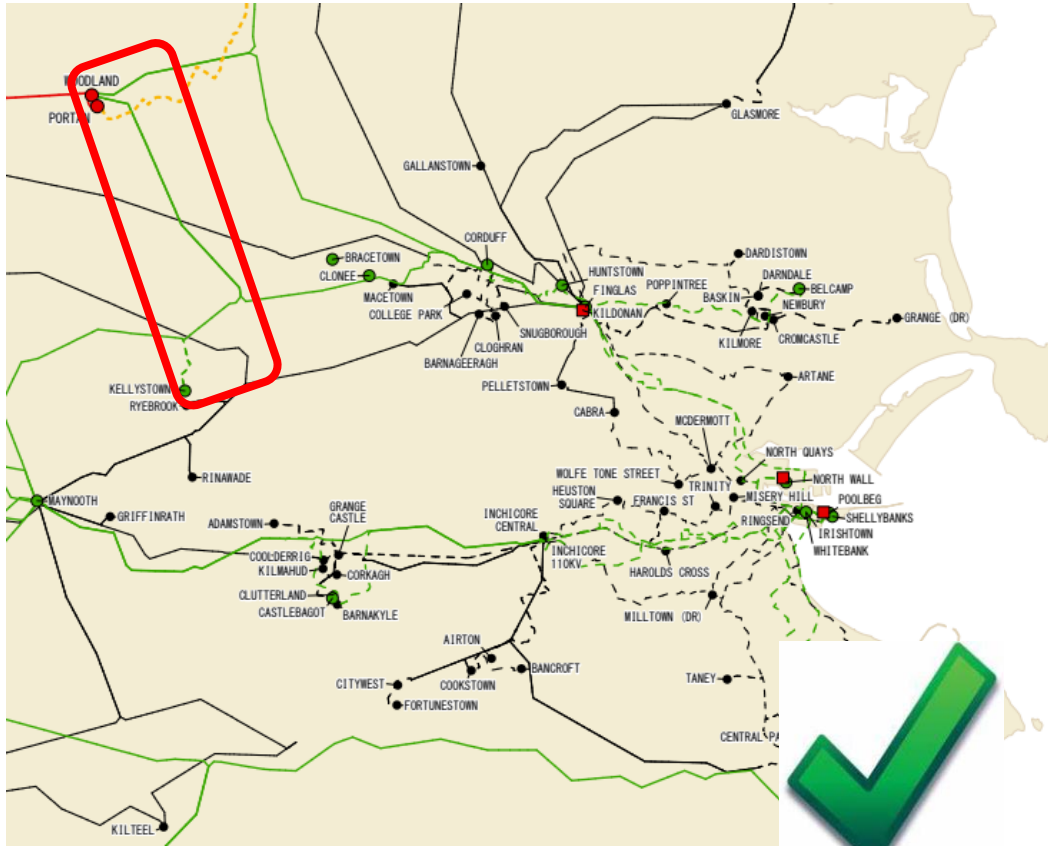
Binbane Cathaleen's Fall 110 kV Circuit  
22<sup>nd</sup> April - 11<sup>th</sup> September  
100 working days  
Full uprate expected to be completed

Glenree Moy 110 kV Circuit  
26<sup>th</sup> August - 11<sup>th</sup> October  
45 working days  
Partial uprate

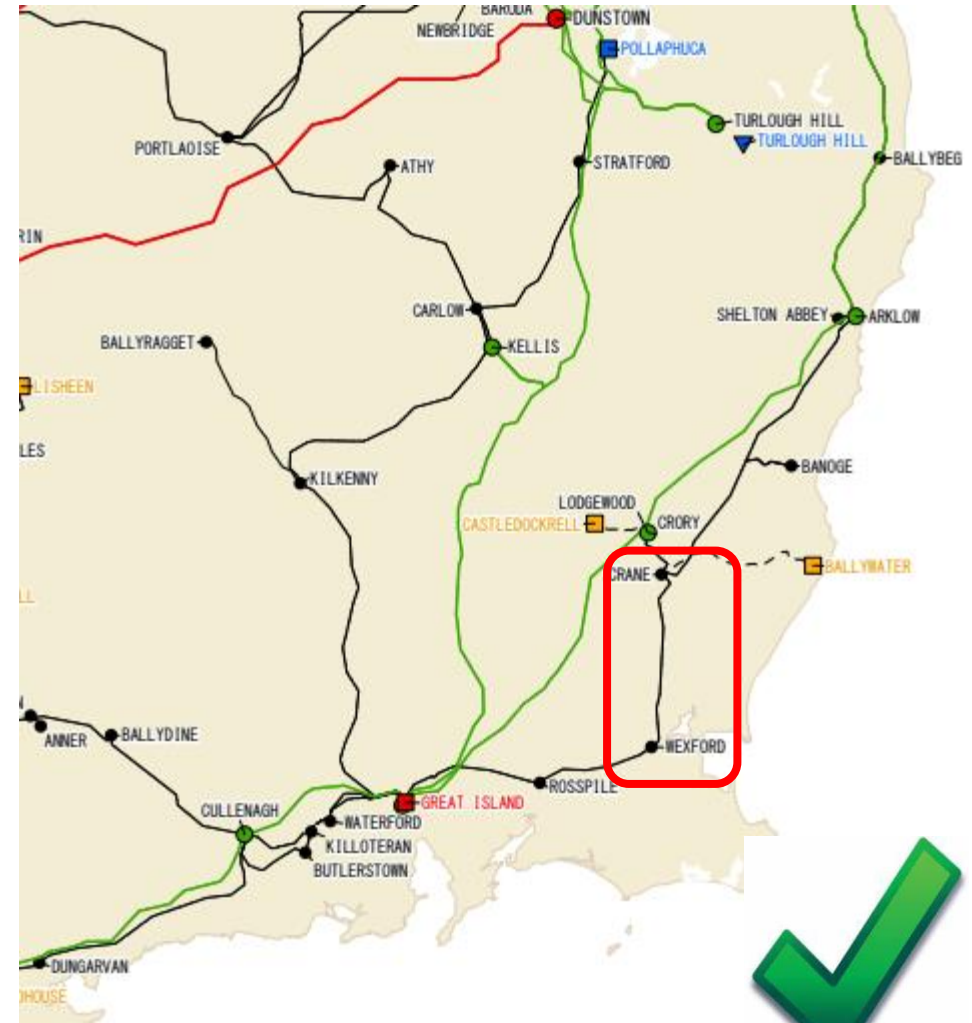


Louth Rattrassan 110 kV Circuit  
24<sup>th</sup> April - 10<sup>th</sup> September  
97 working days  
Partial uprate

Flagford Sliabh Bawn 110 kV Circuit  
4<sup>th</sup> March - 19<sup>th</sup> April  
32 working days Partial uprate



Kellystown Woodland 220 kV Circuit Uprate  
 Clonee Woodland 220 kV Circuit proximity  
 17<sup>th</sup> May - 9<sup>th</sup> September : 80 working days  
 Full uprate works expected to be completed

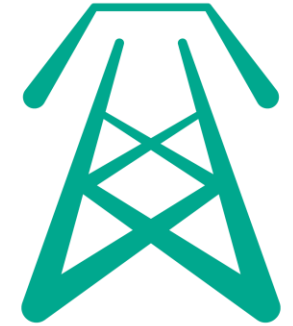


Crane Wexford 110 kV Circuit Uprate  
 16<sup>th</sup> September 25<sup>th</sup> November : 50 working days  
 Partial uprate

# Network Upgrades

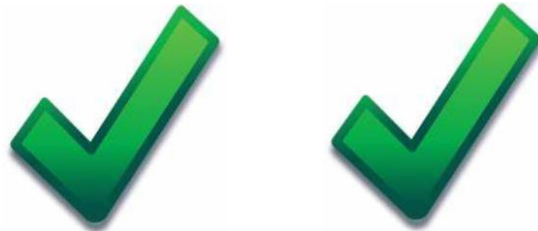
## Line Refurbishments

- Knockraha Raffeen 220 kV Circuit - **Complete**
- Kilbarry Marina 1 ONE and Kilbarry Marina 2 TWO 110 kV Circuits- **Complete (not full refurb)**
- Dunstown Moneypoint 400 kV Circuit - **Not complete**





Kilbarry Marina 1 & 2 110 kV Double Circuit  
 27<sup>th</sup> May 10<sup>th</sup> September : 75 working days  
 Partial refurbishment



Knockraha Raffeem 220 kV Circuit Refurbishment  
 Expected to be completed this year  
 15<sup>th</sup> April - 1<sup>st</sup> May : 13 working days (within a longer  
 outage for network reconfiguration)  
 Cullenagh Knockraha 220 kV Circuit proximity  
 18<sup>th</sup> September - 26<sup>th</sup> September : 7 working days  
 Aghada Knockraha 220 kV Circuit proximity

Dunstown Moneypoint 400 kV  
Line Refurbishment  
10<sup>th</sup> September - 5<sup>th</sup> November  
40 working days



NB: This will be a multi-year project  
with 300 days of work required overall

# Network Upgrades

## Network Reconfigurations

- CP1113 Corduff 220 kV Station - new Corduff T2104 tie transformer - **Complete**
- CP0872 Castlebagot 220 kV Station - second loop in - **Ongoing**
- CP0646 Finglas 110 kV GIS - Finglas T2103 110 kV transfer - **Not complete**
- CP1093 Barnageeragh 110 kV - network reconfiguration - **Partially complete**
- CP0796 Knockraha 220 kV Station Reconfiguration - A4 B4 Busbars circuit transfers - **Complete**
- Hartnett's Cross 110 kV Station - New distribution 110 kV load station - **Complete**
- CP1437 Clahane Tralee 110 kV Line Diversion - **Complete**

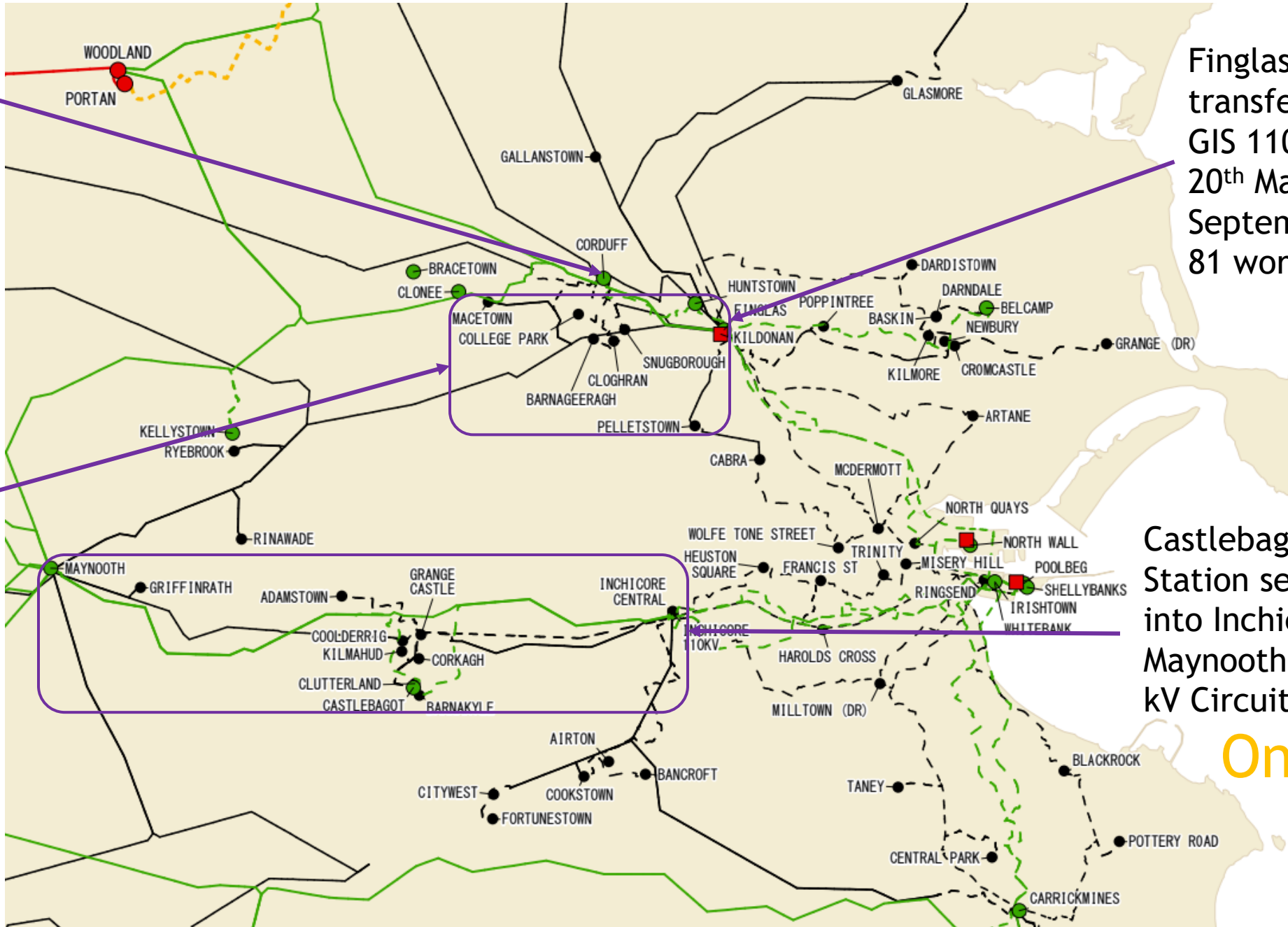


New Corduff T2104 energising Q1 2024



Reconfiguration of 110 kV load stations from Corduff & Finglas bulk supply points

Partially complete



Finglas T2104 transfer to Finglas GIS 110 kV Station 20<sup>th</sup> May - 11<sup>th</sup> September 81 working days



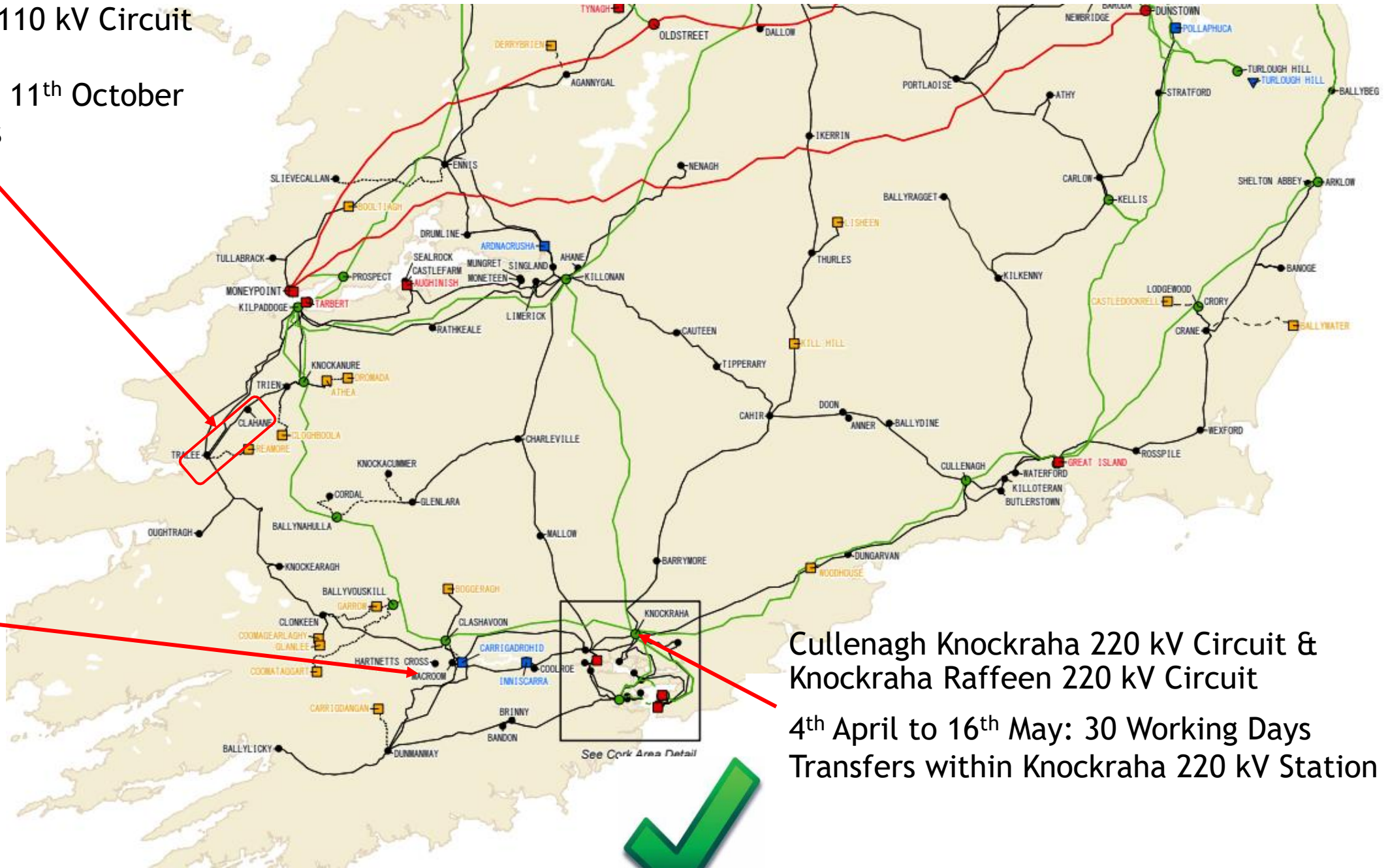
Castlebagot 220 kV Station second loop into Inchicore Maynooth 2 TWO 220 kV Circuit

Ongoing...

**Clahane Tralee 110 kV Circuit  
Line Diversion  
2<sup>nd</sup> September - 11<sup>th</sup> October  
30 working days**



**Hartnett's  
Cross 110 kV  
Station  
connection to  
Macroom  
24<sup>th</sup> September**



**Cullenagh Knockraha 220 kV Circuit &  
Knockraha Raffeen 220 kV Circuit  
4<sup>th</sup> April to 16<sup>th</sup> May: 30 Working Days  
Transfers within Knockraha 220 kV Station**



# Network Upgrades

## Station Refurbishment

- Arteche CT Replacements - Ratrussan, Agannygal, Clonkeen, & Coomagearlahy - Complete
- CP0799 Louth 220 kV - new SB1-2 disconnect - Complete
- CP0799 In Louth Station new Ratrussan and Mullagharlin 110 kV Cubicle refurbishments - Complete
- CP1031 & CP1032 Sprecher & Schuh CB Replacements - Cashla & Flagford - Complete

# Arteche CT Replacements



## Ratrussan Week 17 - Week 21

- 24<sup>th</sup> April - 22<sup>nd</sup> May

CT replacements on all 110 kV Bays

## Agannygal Week 10 - Week 13



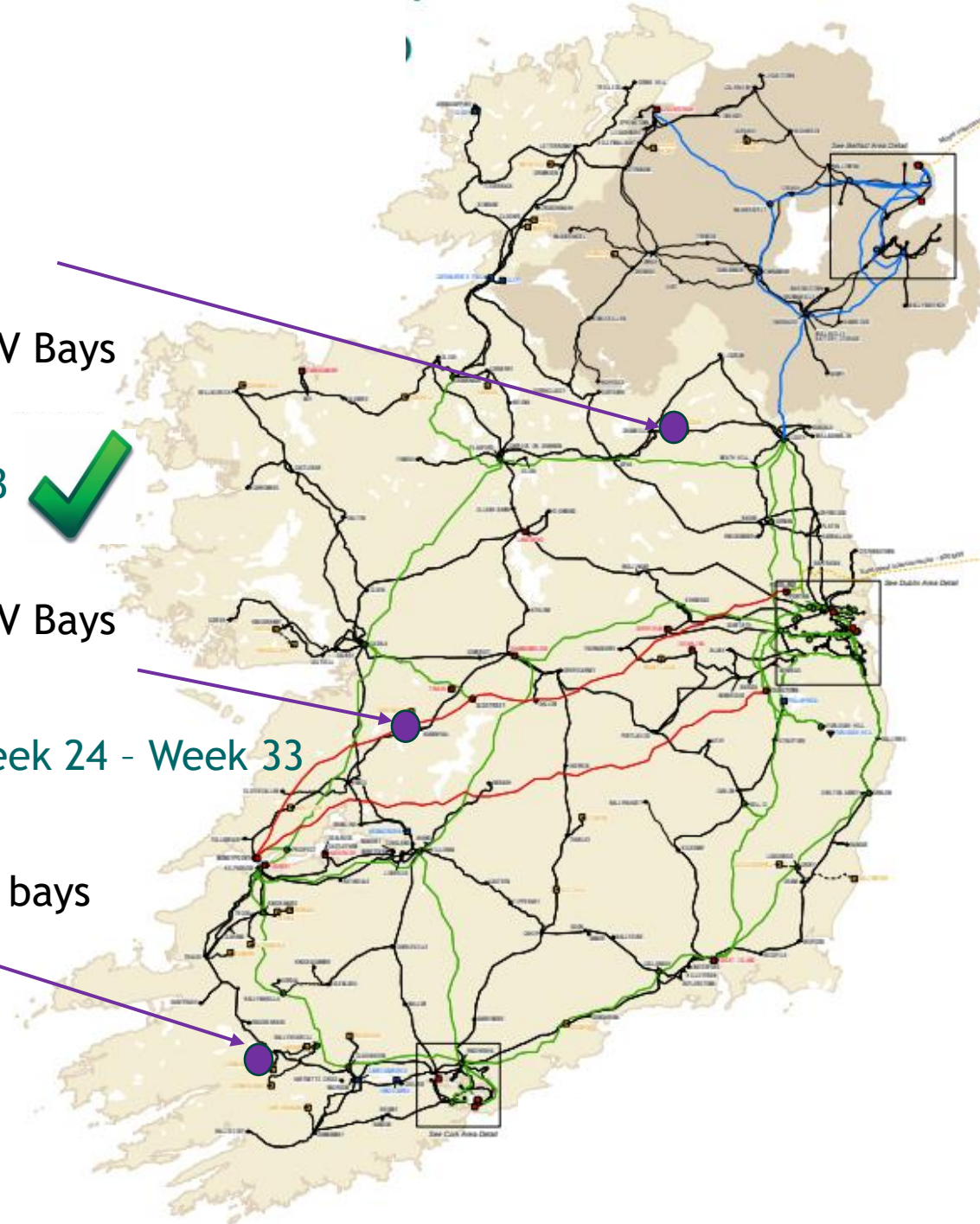
- 4<sup>th</sup> March - 25<sup>th</sup> March

CT replacements on all 110 kV Bays

## Clonkeen, Coomagearlahy Week 24 - Week 33

- 22<sup>nd</sup> April - 10<sup>th</sup> May

CT replacement on impacted bays



## Flagford

Carrick on Shannon Flagford 1 ONE 110 kV Circuit

22<sup>nd</sup> April - 18<sup>th</sup> June : 40 working days

Relay replacement in Carrick on Shannon

Carrick on Shannon Flagford 2 TWO 110 kV Circuit

30<sup>th</sup> September - 25<sup>th</sup> November : 40 working days

Relay replacement in Carrick on Shannon

## Cashla

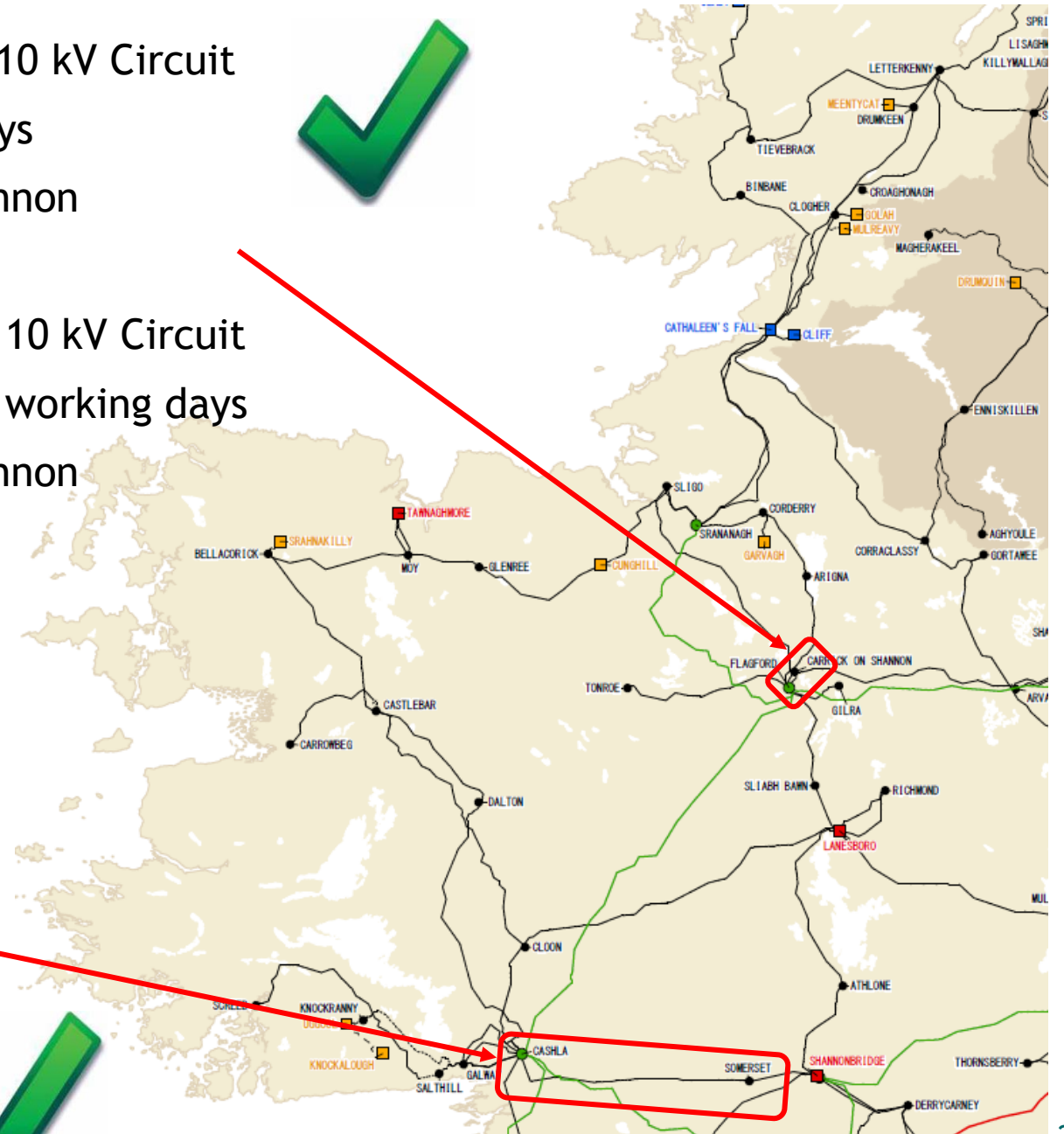
Cashla T2102, both 220 kV & 110 kV CB

2<sup>nd</sup> May - 19<sup>th</sup> July : 55 working days

Relay replacements also to be completed during this outage

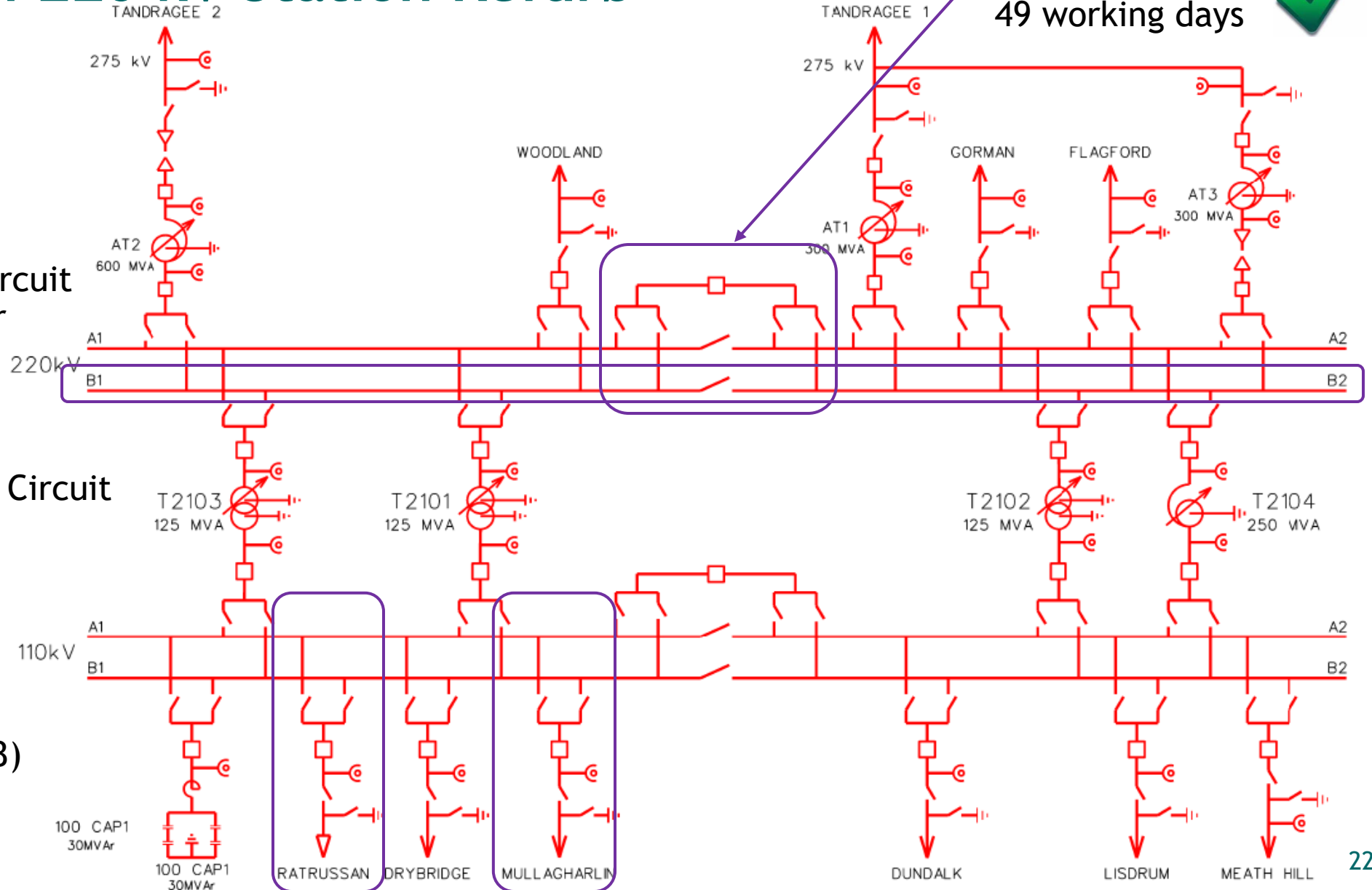
Cashla Shannonbridge Somerset Tee 110 kV Circuit

9<sup>th</sup> September - 13<sup>th</sup> November : 40 working days plus days for breaking and remaking tee and EI



# CP0799 Louth 220 kV Station Refurb

26<sup>th</sup> Feb - 8<sup>th</sup> May  
49 working days



Louth Ratruissan 110 kV Circuit  
24<sup>th</sup> April - 10<sup>th</sup> September  
97 working days



Louth Mullagharlin 110 kV Circuit  
15<sup>th</sup> May - 30<sup>th</sup> September  
97 working days



110 kV A1 B1 Half Station  
12<sup>th</sup> - 16<sup>th</sup> August (week 33)



# Protection Upgrades

- CP1153 Cashla Tynagh 220 kV Circuit, 21<sup>st</sup> June - 23<sup>rd</sup> August : 45 working days - **Not complete**
- CP1161 Cathaleen's Fall Srananagh 1 ONE 110 kV Circuit, 5<sup>th</sup> June - 30<sup>th</sup> July : 40 working days - **Complete**
- CP1114 Platin T101/2/3/4 1<sup>st</sup> February - 16<sup>th</sup> April : 50 working days- **Complete**
- CP1114 Gallanstown Platin 110 kV Circuit, 7<sup>th</sup> October - 11<sup>th</sup> October : 5 working days - **Not complete**
- CP1114 Garballagh Platin 110 kV Circuit , 14<sup>th</sup> October - 18<sup>th</sup> October : 5 working days - **Not complete**
- CP1114 Oldbridge Platin 110 kV Circuit, 21<sup>st</sup> October - 25<sup>th</sup> October : 5 working days - **Not complete**
- CP1159 Cullenagh 220 kV K1-2 and Cullenagh 110 kV K1-2 Couplers, 25<sup>th</sup> September - 20<sup>th</sup> November : 40 working days - **Complete**
- CP1116 Cahir Tipperary 110 kV Circuit, 25<sup>th</sup> September - 20<sup>th</sup> November : 40 working days - **Complete**

# Protection Upgrades

- CP1141 Kellis 220 kV Coupler Protection upgrade, 13<sup>th</sup> May - 8<sup>th</sup> July : 40 working days - **Complete**
- Half Station on both sides to get PI from K1-2 coupler DA1 & DA2
  - 27<sup>th</sup> May - 31<sup>st</sup> May 220 kV A1 - **Complete**
  - 4<sup>th</sup> June - 10<sup>th</sup> June 220 kV A2- **Complete**
- CP1160 Coolroe 110 kV A1 Busbar, 8<sup>th</sup> April - 12<sup>th</sup> April : 5 working days - **Complete**
- CP1160 Coolroe 110 kV A2 Busbar, 15<sup>th</sup> April - 19<sup>th</sup> April : 5 working days - **Complete**
- CP1160 Inniscarra 110 kV A1 Busbar, 13<sup>th</sup> May - 17<sup>th</sup> May : 5 working days - **Complete**
- CP1160 Coolroe T121, 20<sup>th</sup> May - 22<sup>nd</sup> July :45 working days - **Complete**
- CP1160 Coolroe T122, 23<sup>rd</sup> July - 24<sup>th</sup> September :45 working days - **Complete**
- CP1164 Clashavoon 220 kV K1-2 Coupler, 17<sup>th</sup> July - 28<sup>th</sup> August : 30 working days - **Complete**
- CP1164 Clashavoon Macroom 2 110 kV Circuit, 16<sup>th</sup> Sept - 18<sup>th</sup> Nov : 45 working days - **Ongoing**



# Protection Upgrades

- CP1152 Arva Shankill 1 ONE 110 kV Circuit, 9<sup>th</sup> Feb - 23<sup>rd</sup> April : 50 working days - Complete
- CP1109 Navan T141 2<sup>nd</sup> April - 18<sup>th</sup> May : 40 working days - T142 complete instead
- CP1109 Gorman Navan 2 TWO 110 kV Circuit, 4<sup>th</sup> June - 29<sup>th</sup> July : 40 working days - Complete
- CP1109 Gorman Navan 1 ONE110 kV Circuit, 6<sup>th</sup> August - 30<sup>th</sup> September : 40 working days - Complete
- CP1186 Drumline Ennis 110 kV Circuit, 10<sup>th</sup> June - 12<sup>th</sup> August : 45 Working days - Complete
- CP1186 Drumline T141, 12<sup>th</sup> August - 11<sup>th</sup> November : 60 Working days - Complete
- CP1227 Cashla T2104, 26<sup>th</sup> February - 1<sup>st</sup> May : 45 Working Days - Complete
- CP1227 Cashla T2101, 22<sup>nd</sup> July - 23<sup>rd</sup> September : 45 Working Days - Complete

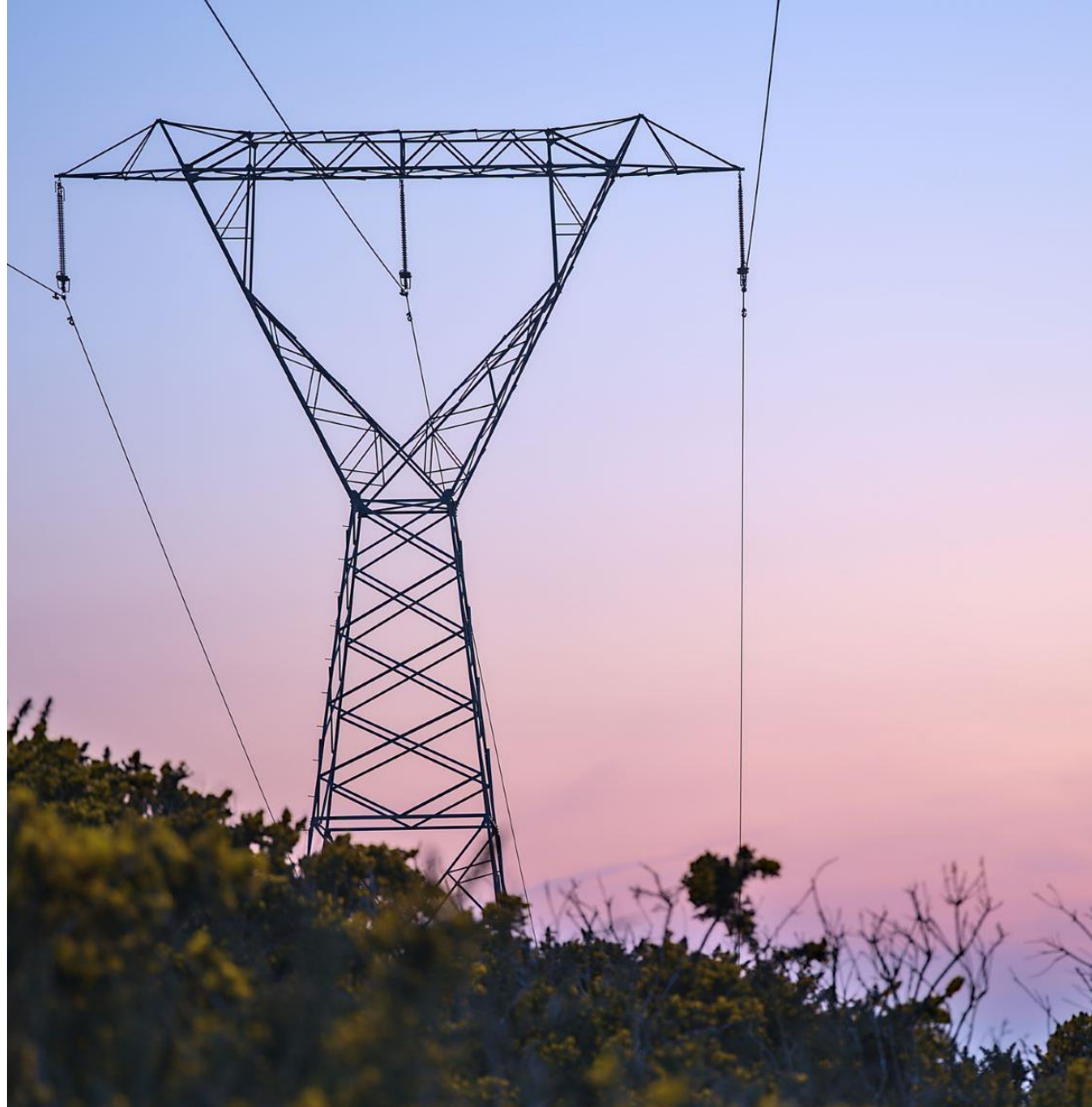
# Substantial works completed additional to baseline

The below works were not included in the TOP24 baseline, however due to various reasons outage slots became available to get the works done:

CP No.	Title / Description	Duration (WD's)
CP0837	Bellacorrick T141 Uprate	5
CP0850	Cable sheath fault repair works on Bellacorrick-Sranhakilly	15
CP1231	Temporary connection of Knockdrin 110kV Station	15
CP1248	Connection of Harlockstown Solar	3
CP1285	Barnahely/Ringaskiddy circuit diversions in Knocraha	155
CP1321	Installation of DLR's on Cashla-Dalton	10
CP0871	Additional transformers transferred to new Galway GIS	60

December 2024

# TOP25 Overview



# Agenda



New Connections

Line Uprates

Line Refurbishments

Network Reconfigurations

Protection Upgrades

# New Connections

## Wind Farm Connections

CP1217 Philipstown 110 kV Station

CP1231 Knockdrin 110 kV Station \*

## Solar Farm Connections

CP1062 Drombeg 110 kV Station

CP1260 Dennistown 110 kV Station

CP1351 Ballynadrideen 110 kV Station

CP1269 Croy 110 kV Station

CP1234 Laurecetown 110 kV Station \*

CP1158 Rattin 110 kV Station

CP1353 Bendinstown 110 kV Station

CP1352 Gortatleva 110 kV Station

CP1342 Drumcamill 110 kV Station

## Conventional

CP1255 Castlelost 220 kV Station

CP1256 Barnakyle 110 kV Station

CP1259 Athlone 110 kV Station

## Other

CP1272 Derryiron Busbar Uprate (Enabling Project)

CP1059 Raghra 220 kV Station

# New Connections - Renewable South

- CP1062 Drombeg 110 kV Station : Drombeg Solar Farm 50 MW
- CP1260 Dennistown 110 kV Station : Tracystown Solar Farm 101 MW
- CP1269 Crory 110 kV Station : The Dell Solar Farm 20 MW (DSO Connection)
- CP1351 Ballynadrideen 110 kV Station : Ballyroe Solar Farm 120 MW
- CP1353 Bendinstown 110 kV Station : Garreenleen Solar Farm 81 MW



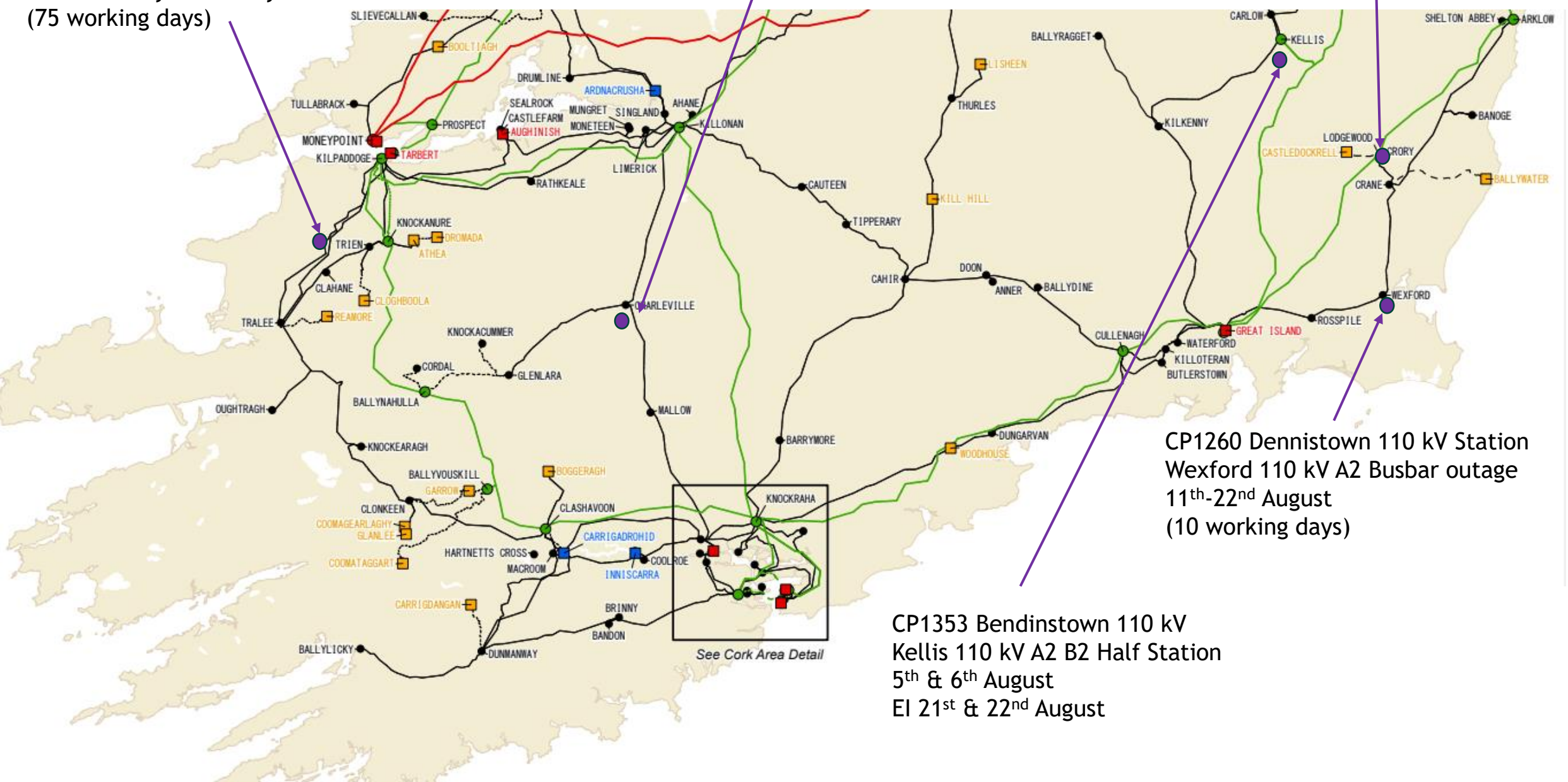
CP1062 Drombeg 110 kV Station  
Kilpaddoge Tralee 2 TWO 110 kV Circuit  
10<sup>th</sup> February - 29<sup>th</sup> May  
(75 working days)

CP1351 Ballynadrideen 110 kV Station  
Tail into Charleville 110 kV A2  
17<sup>th</sup> - 21<sup>st</sup> November (5 working days)

CP1269 Croy 110 kV Station - Dell Solar  
Lodgewood 110 kV A2 22<sup>nd</sup> - 18<sup>th</sup> April  
(5 working days)

CP1260 Dennistown 110 kV Station  
Wexford 110 kV A2 Busbar outage  
11<sup>th</sup>-22<sup>nd</sup> August  
(10 working days)

CP1353 Bendinstown 110 kV  
Kellis 110 kV A2 B2 Half Station  
5<sup>th</sup> & 6<sup>th</sup> August  
EI 21<sup>st</sup> & 22<sup>nd</sup> August



# New Connections - Renewable Central

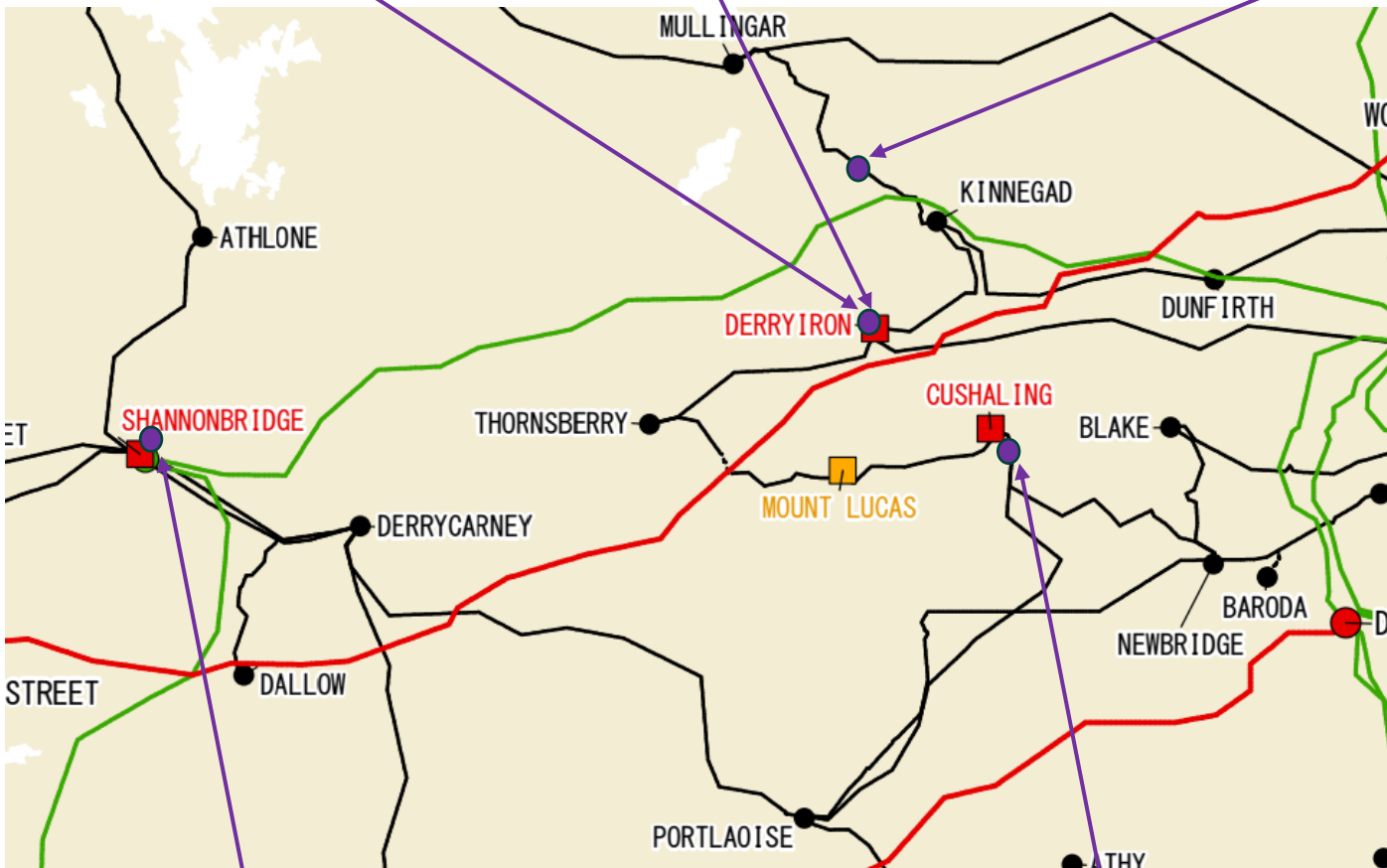
- CP1272 Derryiron Busbar Uprate (Enabling Project)
- CP1217 Philipstown 110 kV Station: Cushaling Wind Farm 50 MW ●
- CP1231 Knockdrin 110 kV Station : Yellow River Wind Farm 101 MW (Permanent Connection)
- CP1234 Laurencetown 110 kV Station : Clonin North Solar Farm 50 MW
- CP1158 Rattin 110 kV Station : Clonfad Solar Farm 100 MW ●
- CP1059 Raghra 220 kV Station : Shannonbridge B BESS 63 MW Battery



CP1231 Knockdrin 110 kV Station  
Derryiron 110 kV A1  
22<sup>nd</sup> -30<sup>th</sup> September

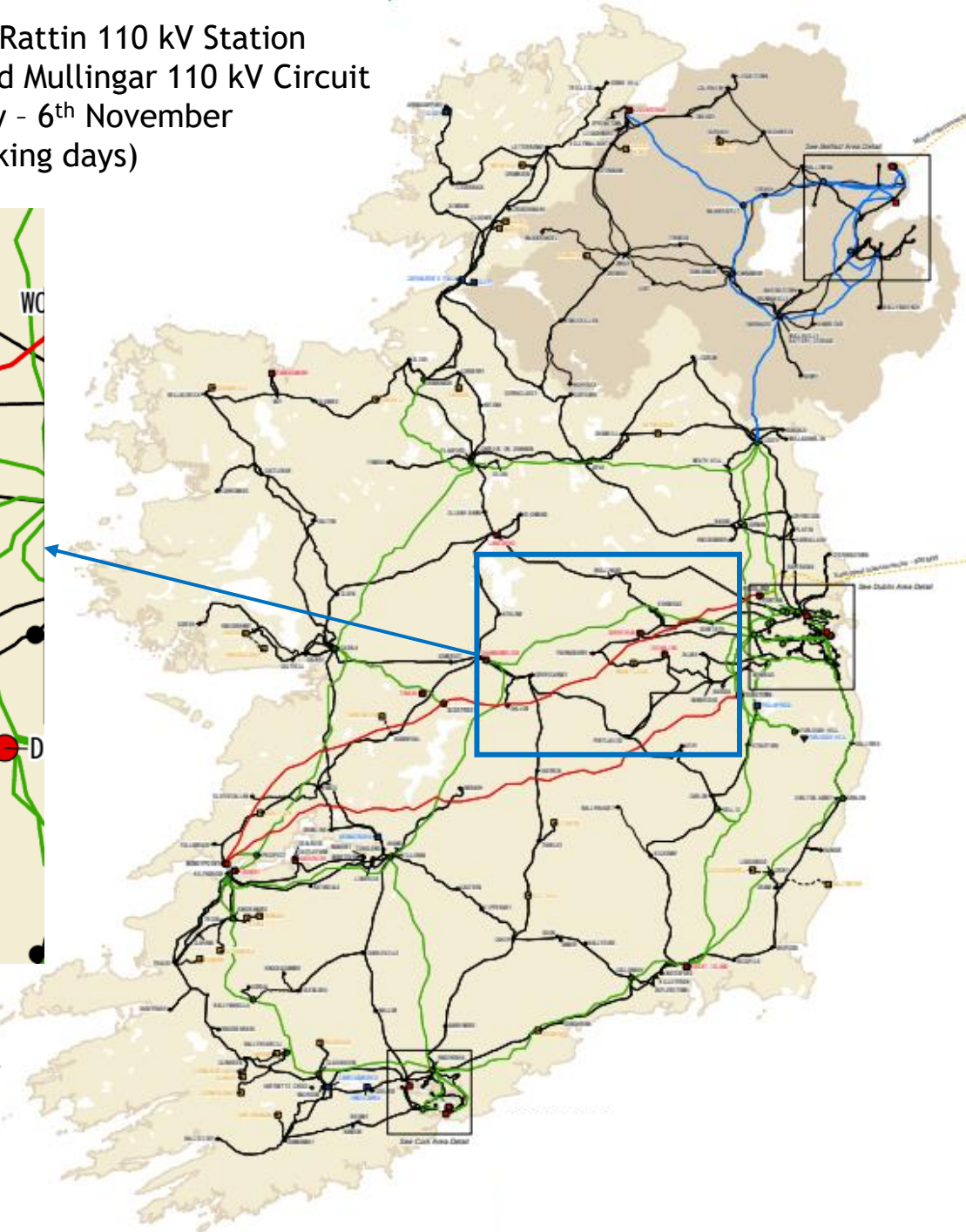
CP1234 Laurencetown 110 kV  
Station  
Derryiron 110 kV A2  
8<sup>th</sup> -16<sup>th</sup> October

CP1158 Rattin 110 kV Station  
Kinnegad Mullingar 110 kV Circuit  
30<sup>th</sup> July - 6<sup>th</sup> November  
(70 working days)



CP1059 Ragra 220 kV Station  
Killonan Shannonbridge 220 kV Circuit  
11<sup>th</sup> - 17<sup>th</sup> April  
(5 working days)

CP1217 Philipstown 110 kV Station  
Cushaling Portlaoise 110 kV Circuit  
11<sup>th</sup> December '24 - 17<sup>th</sup> April  
(87 working days)

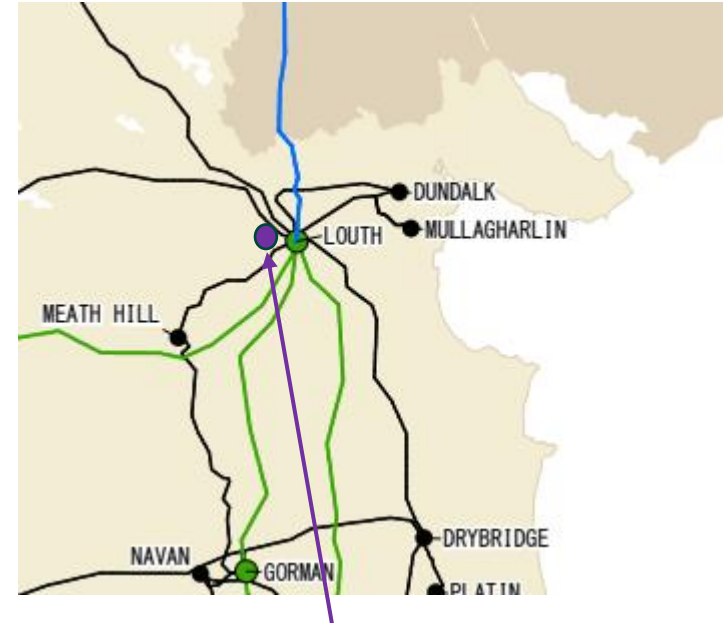


# New Connections - Renewable North & West

- CP1352 Gortatleva 110 kV Station : Ballymoneen Solar Farm 80 MW
- CP1342 Drumcamill 110 kV Station : Monvallet Solar Farm 50 MW



CP1352 Gortatleva 110 kV Station  
Multiple Cashla 110 kV A1 & B1 outages  
16<sup>th</sup> June to 8<sup>th</sup> October



CP1342 Drumcamill 110 kV Station  
Multiple Louth 110 kV A2 & B2 outages  
16<sup>th</sup> June to 8<sup>th</sup> October

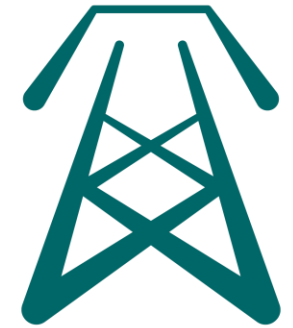
# CP1272 Derryiron Busbar Uprate

- Temporary bypass arrangements have been installed in Derryiron 110 kV Station since early 2024
- This allows works to replace the old busbar with a new higher rated busbar with significantly reduced system impact
- Significant benefit allowing peaking generation at Rhode Station
- This is an enabling project for both :
  - CP1231 Knockdrin 110 kV Station
  - CP1234 Laurencetown 110 kV Station



# New Connections - Conventional

- CP1255 Castlelost 220 kV Station : Castlelost OCGT 275 MW ●
- CP1256 Barnakyle 110 kV Station : Profile Park OCGT 100 MW
- CP1259 Athlone 110 kV Station : Cuilleen OCGT 100 MW

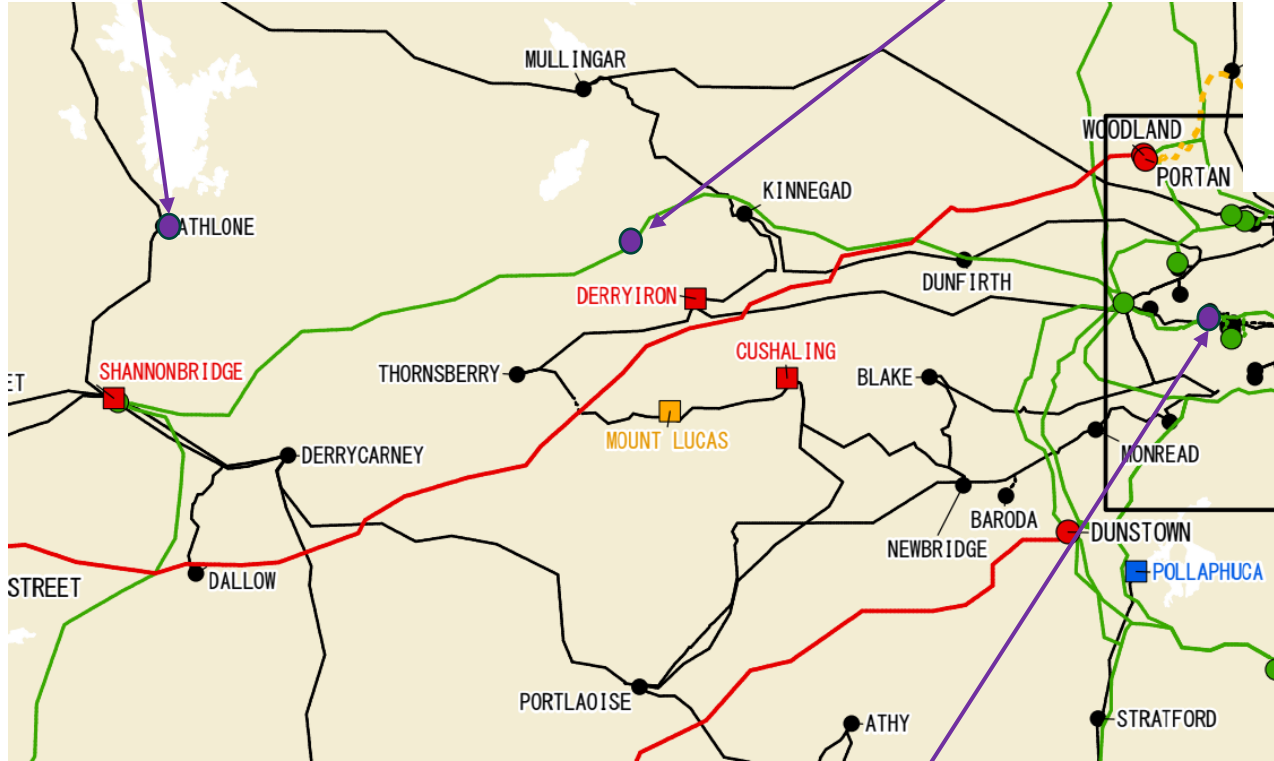


CP1259 Athlone 110 kV Station :

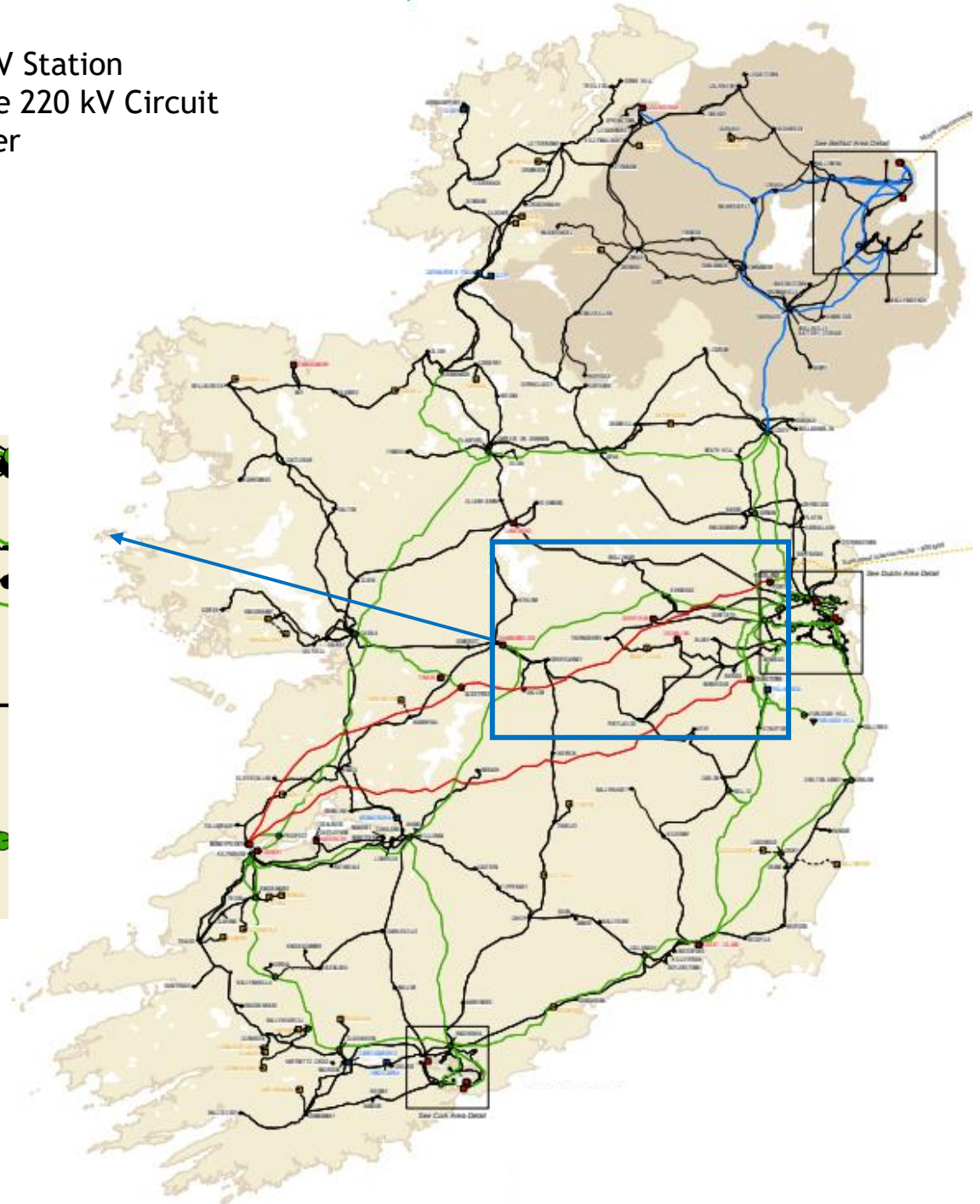
Multiple outages 10-15-day  
outages in Athlone Station during  
the period March to October

CP1255 Castlelost 220 kV Station

Maynooth Shannonbridge 220 kV Circuit  
22<sup>nd</sup> April - 5<sup>th</sup> September  
(96 working days)



CP1256 Profile Park  
Barnakyle A2 110 kV Busbar  
13<sup>th</sup> January - 18<sup>th</sup> March  
(45 working days)



# Line Upgrades

- CP0817 Flagford Sliabh Bawn 110 kV Circuit ●
- CP0905 Louth Ratrussan 110 kV Circuit ●
- CP1155 Glenree Moy 110 kV Circuit ●
- CP1172 Crane Wexford 110 kV Circuit ●
- CP1167 Drybridge Oldbridge 110 kV Circuit & Oldbridge Platin 110 kV Circuit
- CP1235 Louth Woodland 220 kV Circuit (Partial) ●
- MC0383 Corduff Finglas 1 & 2 220 kV Bay Conductor Upgrade
- CP1156 Sligo Srananagh 1 ONE Bay Conductor Upgrade ●





# Progress in 2024

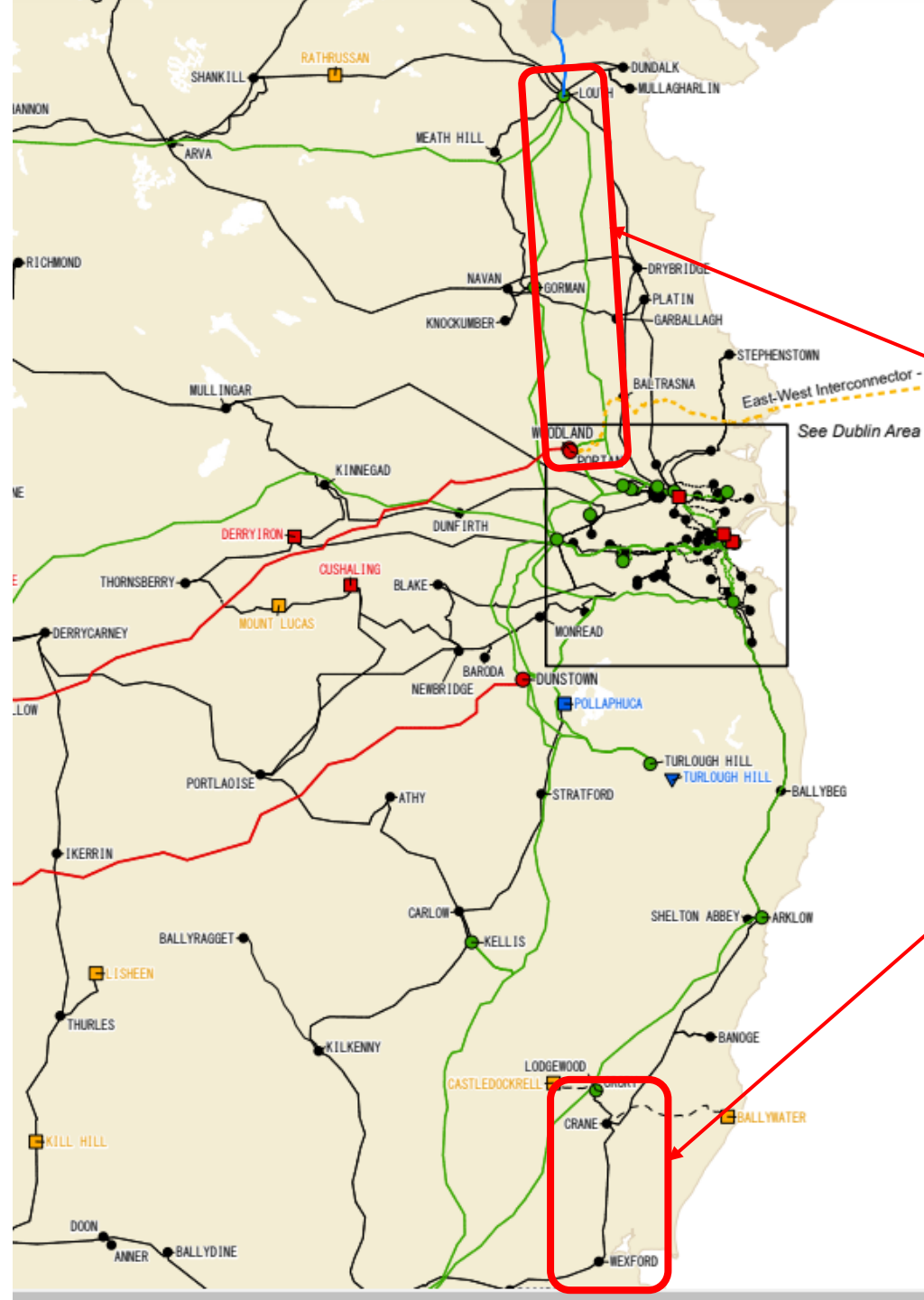
CP0817 Flagford Sliabh Bawn



CP1155 Glenree Moy







Louth Woodland 220 kV Circuit Uprate  
8<sup>th</sup> September - 10<sup>th</sup> October: 25 working days  
Partial Outage, opportunistic to align with CP0799 works

Crane Wexford 110 kV Circuit Uprate  
29<sup>th</sup> April - 18<sup>th</sup> September : 100 working days  
Expected to be completed

# Line Refurbishments

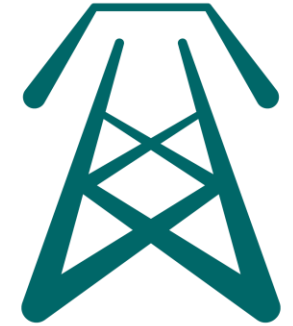
## CP0857 Kilbarry Marina 1 & 2 Double Circuit

- Tower painting and replacement of tower members
- 3rd March - 22<sup>nd</sup> September (140 working days)
- 20<sup>th</sup> October - 8<sup>th</sup> December (35 working days)



# Network Reconfigurations

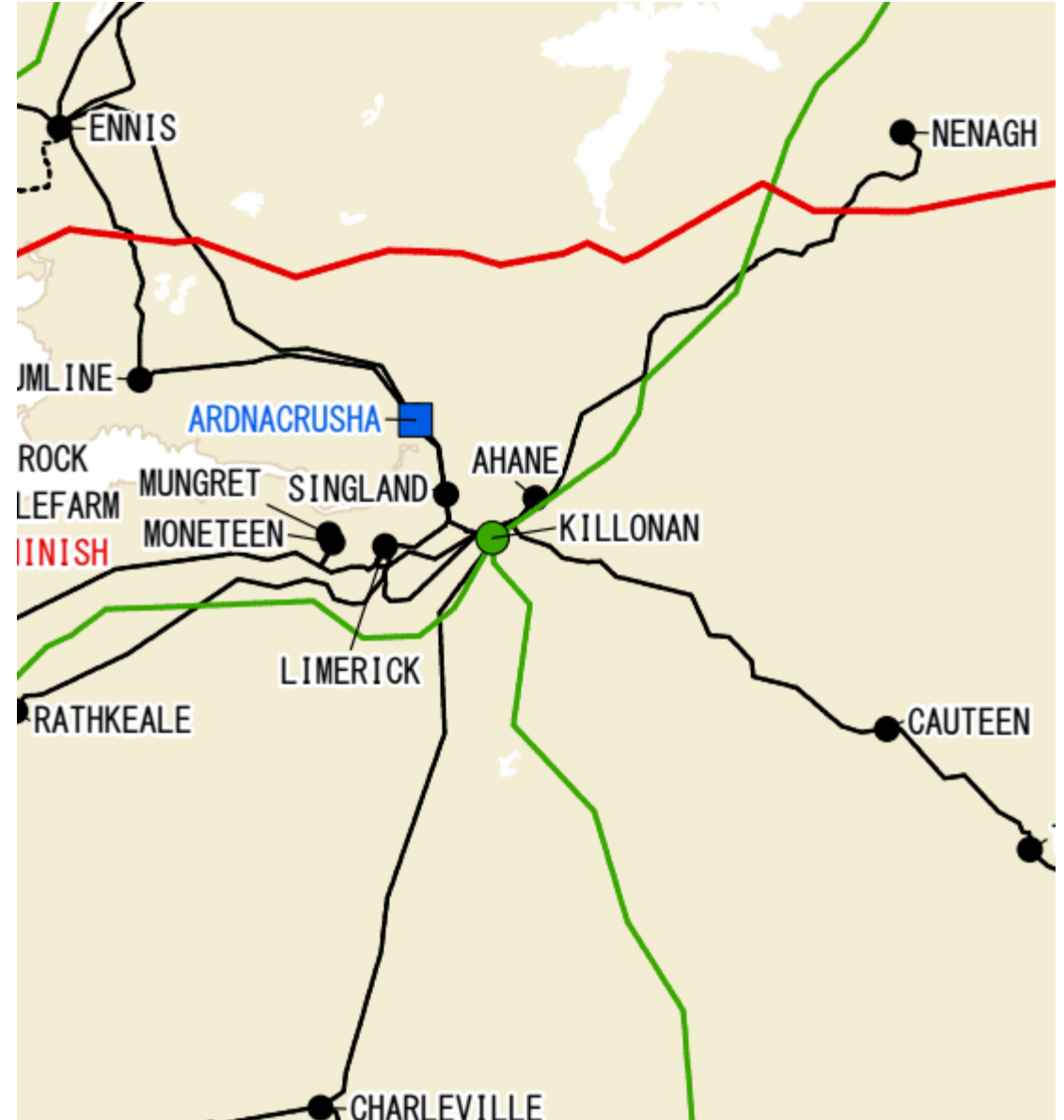
- CP0624 Killonan GIS ●
- CP0984 Belcamp Shellybanks Phase 2
- CP0646 Finglas 110 kV GIS Transfers T2104
- CP0585 Laois Kilkenny (Coolnabacky) ●
- CP0644 Bracklone 110 kV Station ●
- CP0799 Louth 220 kV Station Refurbishment ●
- MC0398 Aghada Knockraha Additional Tower
- CP0973 Knockraha Short Circuit Rating Mitigation

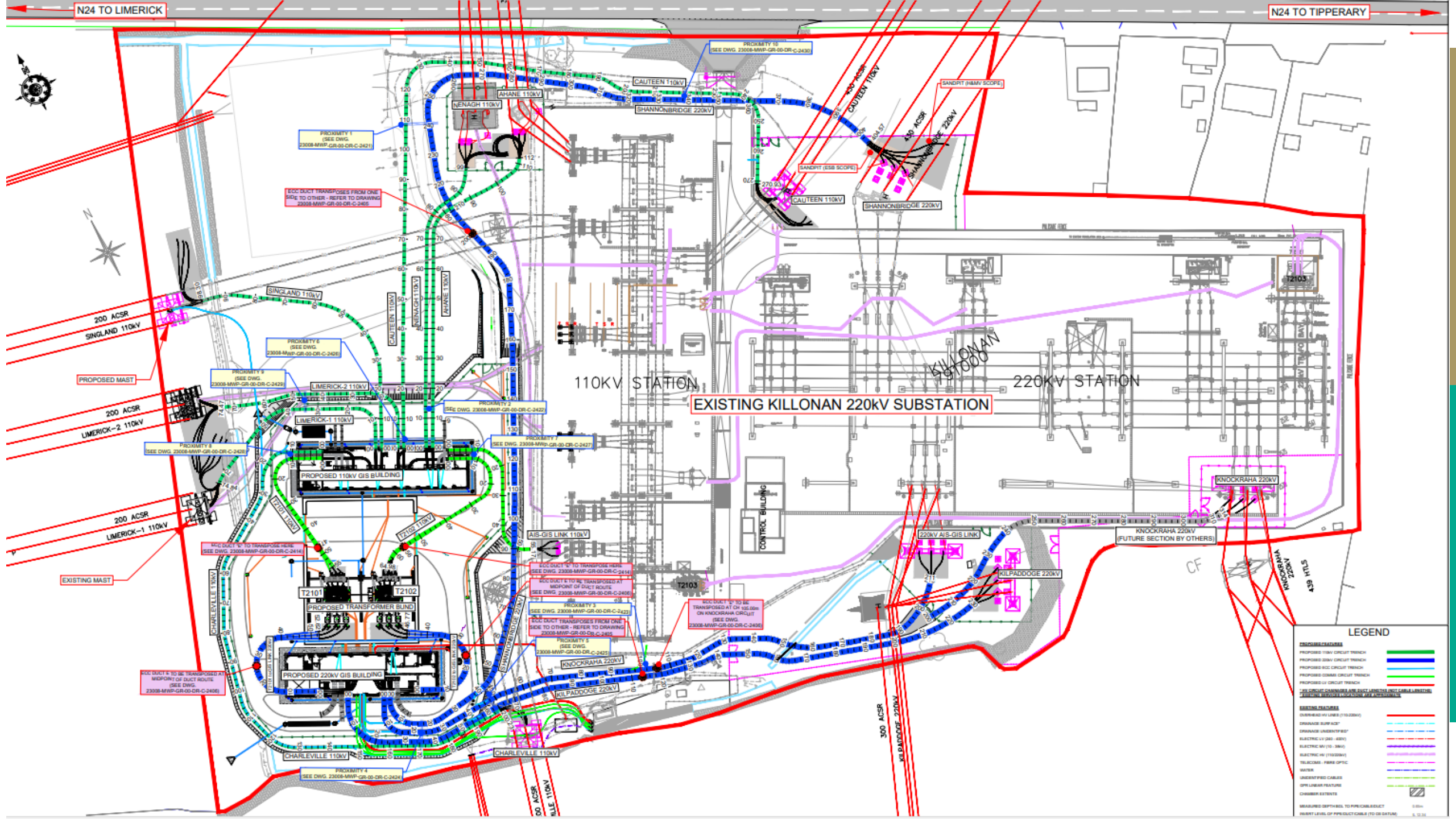


# Network Reconfigurations

## CP0624 Killonan GIS

Circuit	Date	Duration
Kilpaddoge Killonan 220 kV	13 <sup>th</sup> January - 10 <sup>th</sup> April	60 working days
Charleville Killonan 110 kV	13 <sup>th</sup> January - 10 <sup>th</sup> April	60 working days
Cauteen Killonan 110 kV	14 <sup>th</sup> April - 26 <sup>th</sup> June	50 working days
Killonan Singland 110 kV	30 <sup>th</sup> June - 9 <sup>th</sup> September	50 working days
Killonan Shannonbridge 220 kV	29 <sup>th</sup> September - 8 <sup>th</sup> December	50 working days





EXISTING KILLONAN 220KV SUBSTATION

110KV STATION

220KV STATION

KNOCKRAHA 220KV

KNOCKRAHA 220KV (FUTURE SECTION BY OTHERS)

KILPADDOGE 220KV

KILPADDOGE 220KV

CHARLEVILLE 110KV

CHARLEVILLE 110KV

SHANNONBRIDGE 220KV

SHANNONBRIDGE 220KV

CAUTEEN 110KV

CAUTEEN 110KV

CAUTEEN 110KV

CAUTEEN 110KV

CAUTEEN 110KV

**LEGEND**

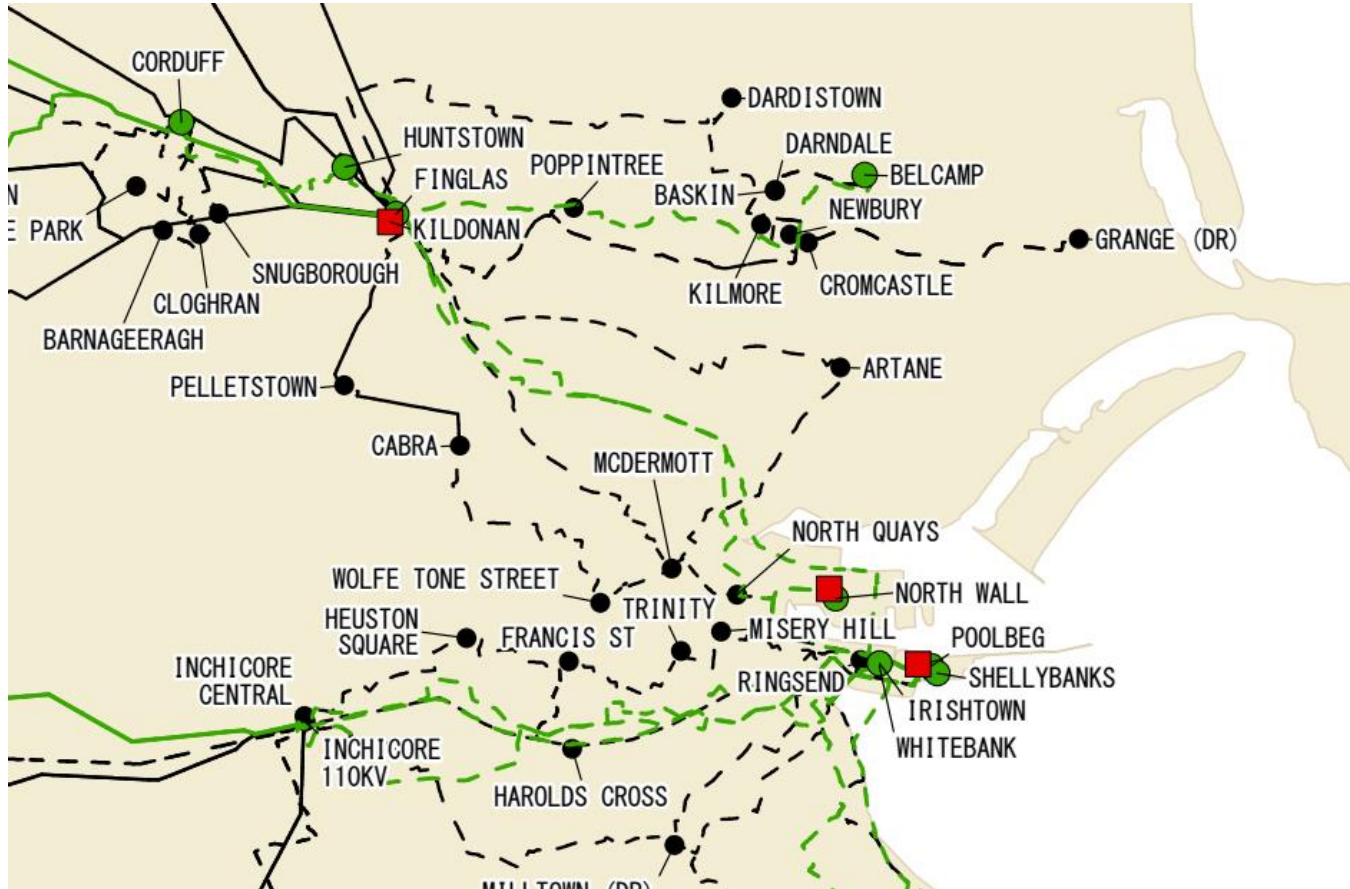
PROPOSED INFRASTRUCTURE	
PROPOSED 110KV CIRCUIT TRENCH	
PROPOSED 220KV CIRCUIT TRENCH	
PROPOSED 300V CIRCUIT TRENCH	
PROPOSED 600V CIRCUIT TRENCH	
PROPOSED 110KV/220KV CIRCUIT TRENCH	
PROPOSED 110KV/220KV/300V CIRCUIT TRENCH	
PROPOSED 110KV/220KV/300V/600V CIRCUIT TRENCH	
EXISTING INFRASTRUCTURE	
OVERHEAD HV LINES (110/220KV)	
DRAINAGE SURFACE	
DRAINAGE UNIDENTIFIED	
ELECTRIC LV (240 - 400V)	
ELECTRIC LV (0.1 - 240V)	
ELECTRIC HV (110/220KV)	
TELECOM - FIBRE OPTIC	
WATER	
UNIDENTIFIED CABLES	
OPEN LINEAR FEATURES	
CHAMBER EXTENTS	

MEASURED DEPTH REL. TO PIP/CABLE/SUBJECT  
HEAVY LINE OF PIPE/CABLE TO BE DATUM

1:500  
1:250

# Network Reconfigurations

## CP0984 Belcamp Shellybanks Phase 2



- Looping Belcamp 220 kV Station into Finglas Shellybanks 220 kV Circuit
- **Maintenance:** Week 6-9 (4<sup>th</sup> February - 24<sup>th</sup> February)
- **PD Testing :** Week 14 -17 (3<sup>rd</sup> April - 24<sup>th</sup> April, please note Easter weekend is 18<sup>th</sup>-21<sup>st</sup> April)
- Loop in works: commencing 19<sup>th</sup> May 50 day outage of Finglas Shellybanks 220 kV Circuit at conclusion Belcamp will be tailed from Shellybanks
- Finglas Belcamp 220 kV Circuit outage for 30 days outage Belcamp tailed to Shellybanks for this period (30<sup>th</sup> July - 10<sup>th</sup> September)
- Returns as Finglas - Belcamp - Shellybanks 10<sup>th</sup> September

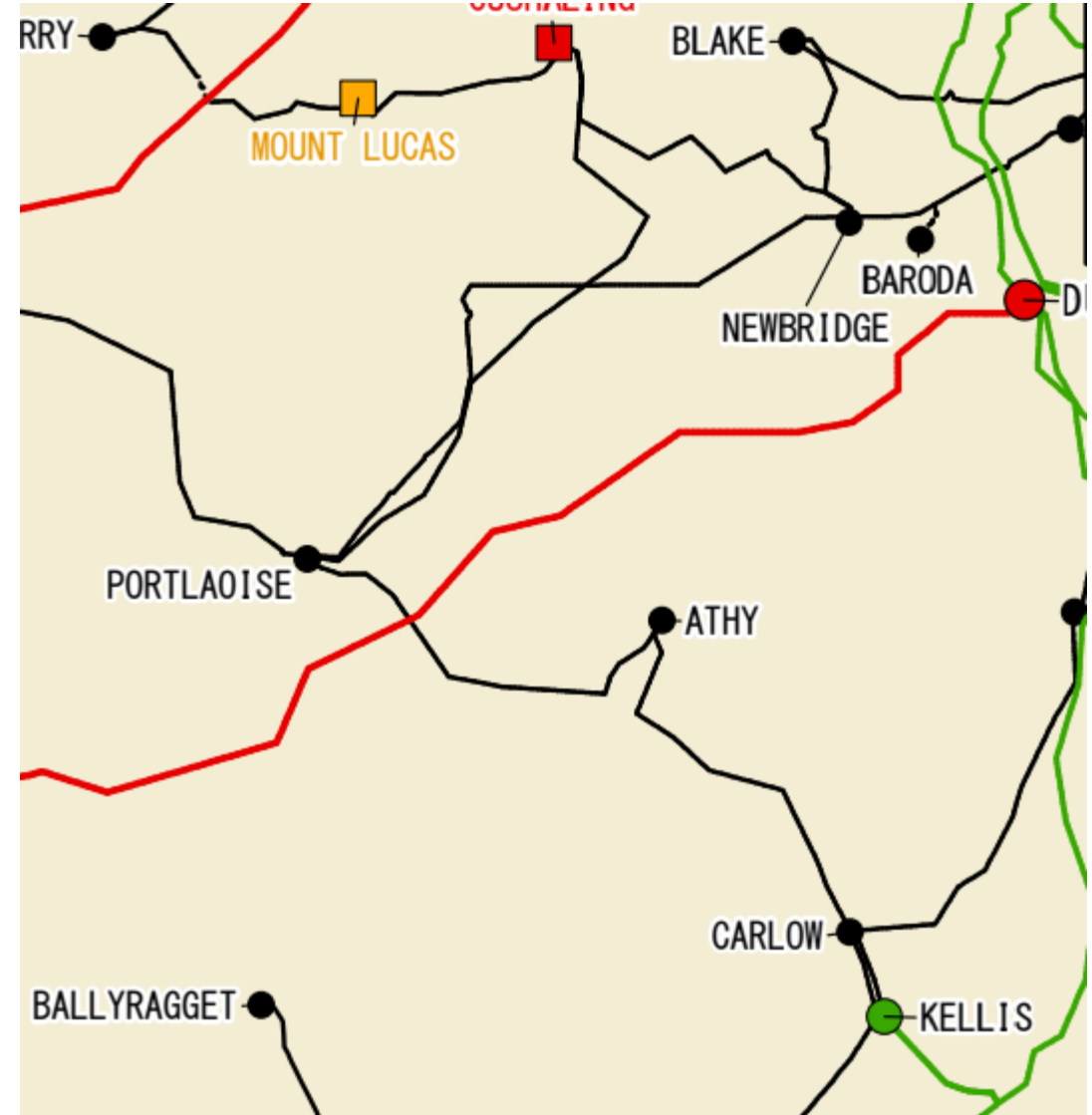
# Network Reconfigurations

## CP0585 Laois Kilkenny (Coolnabacky)

- Earth wire retrofit and partial reconductoring
- Enabling works for loop in of Coolnabacky 110 kV Station in 2026
- 23<sup>rd</sup> June - 1<sup>st</sup> September (50 working days)

## CP0644 Bracklone 110 kV Station

- Enabling works for Bracklone 110 kV Station (DSO Demand Station) in 2026
- Fibre wrap
- 3<sup>rd</sup> September - 19<sup>th</sup> November (55 working days)



# Network Reconfigurations

Aghada Knockraha 220 kV Double Circuit Outage

24<sup>th</sup> September - 14<sup>th</sup> October (15 working days)

Entirely overlaps with Generator outage

3 projects to be completed under this outage

## CP0973 Knockraha Short Circuit Mitigation

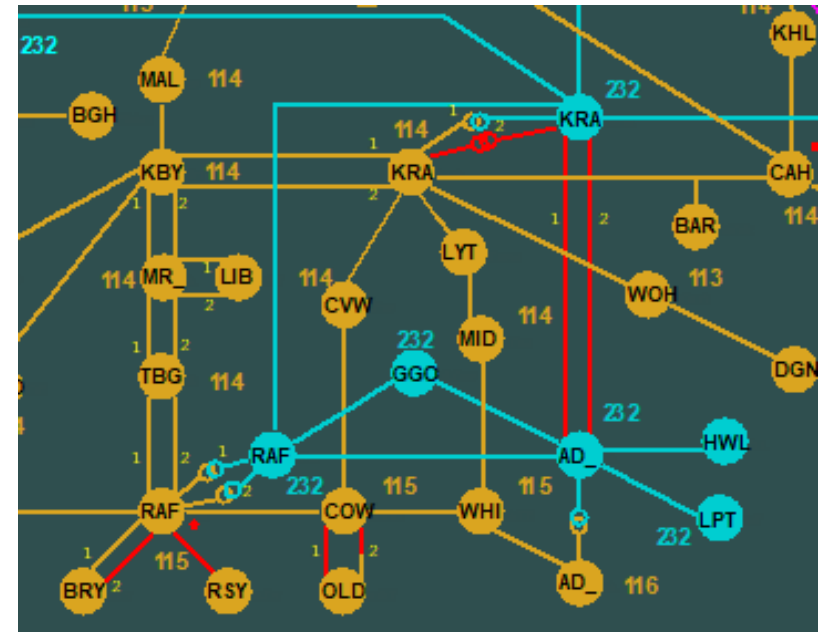
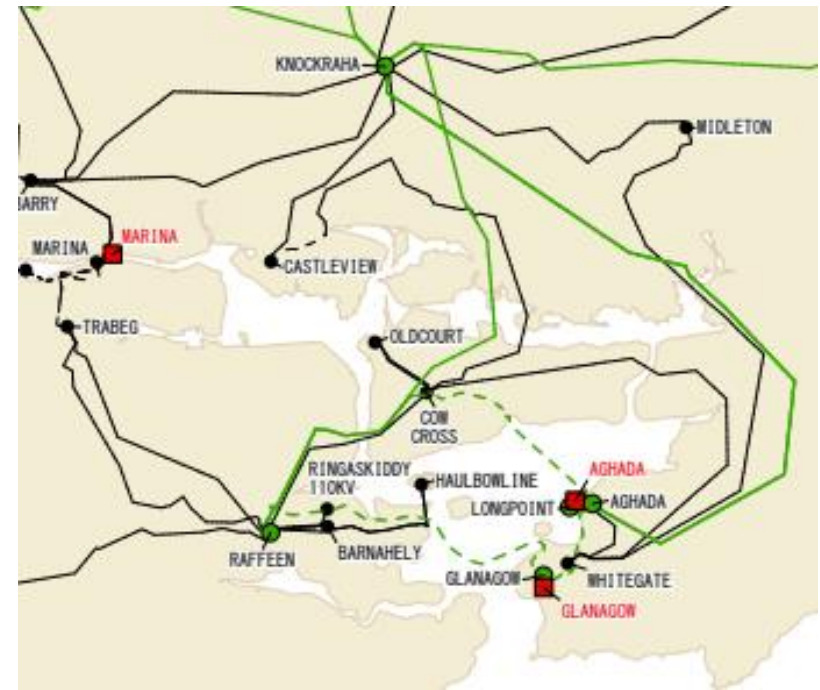
- Busbars in turn and Knockraha T2102 overlapping
- Install Busbar Spaces to increase Short Circuit Rating prerequisite of Celtic Interconnector

## MC0390 Knockraha Lead in Droppers Aghada Station

- Uprate lead in dropper in Aghada Station, increased rating and 10% overload capability once completed

## MC0398 Minor Capital Project Additional Tower

- Additional tower required





# Network Reconfigurations

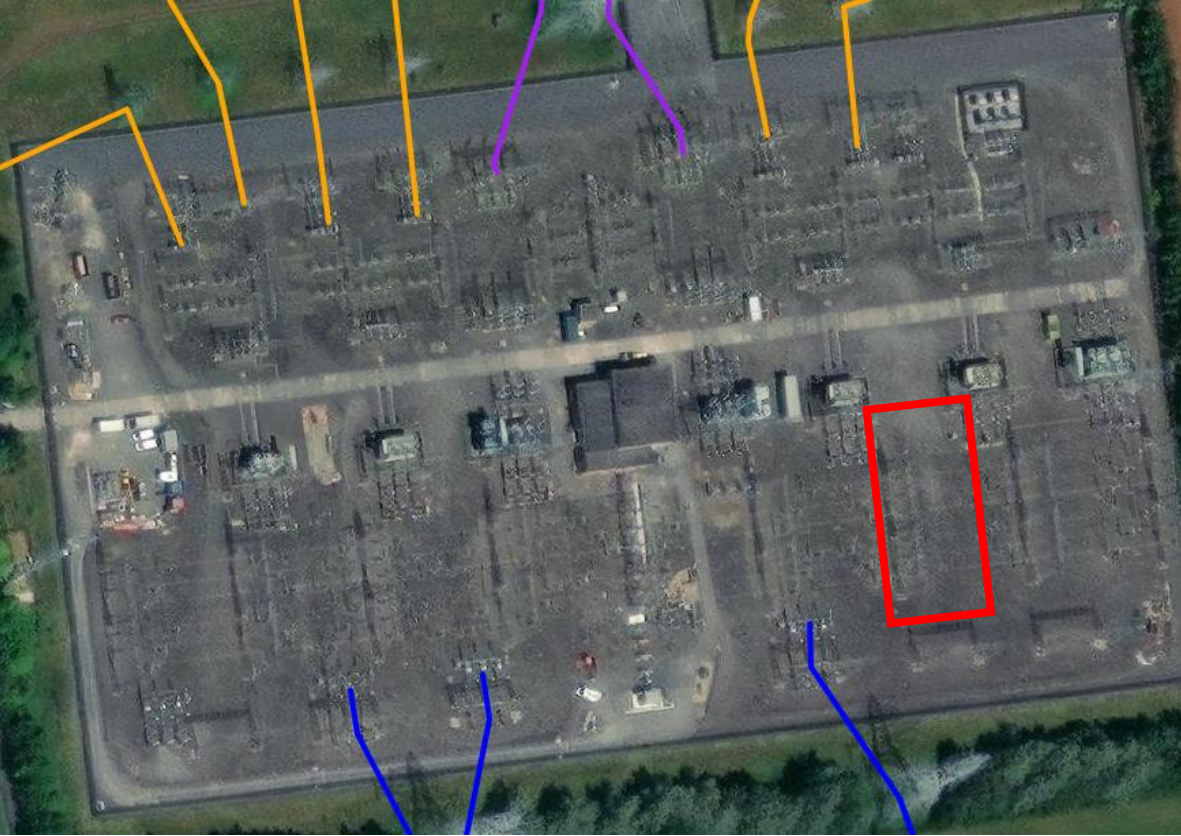
## CP0799 Louth 220 kV Station Refurb

- Louth AT3
  - 30<sup>th</sup> June - 17<sup>th</sup> October (79 working days)
  - New bay at 220 kV, new offline build
  - At 275 kV new DL/DE new Circuit Breaker \*
- 
- Louth Woodland 220 kV Circuit
  - 8<sup>th</sup> September - 10<sup>th</sup> October (25 working day outage)
  - New offline bays being built at both ends
  - 10 day proximity of Corduff Woodland 220 kV Circuit (15<sup>th</sup> September - 26<sup>th</sup> September)
  - Within this 5 day Woodland 220 kV A2 B2 Half Station (22<sup>nd</sup> September - 26<sup>th</sup> September)



# Network Reconfigurations

Louth 275 kV Station



Woodland 400 kV Station



# Protection Upgrades

- CP1114 : Platin T105 - 5<sup>th</sup> February -20<sup>th</sup> March : 30 WD
- CP1152 : Ratrussan Shankill 110 kV Circuit - 5<sup>th</sup> February - 2<sup>nd</sup> April : 40 WD
- CP1163 : Butlerstown Killoteran - 19<sup>th</sup> May - 14<sup>th</sup> July : 40 WD
- CP1163 : Killoteran Waterford 110 kV Circuit - 18<sup>th</sup> March 15<sup>th</sup> May : 40 WD
- MC0356 : Killoteran Waterford 110 kV Circuit - 18<sup>th</sup> March 15<sup>th</sup> May : 40 WD
- CP1109 : Navan T142 - 2<sup>nd</sup> April - 30<sup>th</sup> May : 40 WD
- CP1109 : Gorman Meath Hill 110 kV Circuit - 12<sup>th</sup> May - 31<sup>st</sup> May : 15 WD
- CP1109 : Gorman Meath Hill 110 kV Circuit : 9<sup>th</sup> June - 27<sup>th</sup> June : 15 WD
- CP1109 : Louth Meath Hill 110 kV Circuit : 30<sup>th</sup> June 18<sup>th</sup> July : 15 WD
- CP1109 : Gorman T2101 : 21<sup>st</sup> July - 15<sup>th</sup> September 40 WD



# Protection Upgrades

- CP1164 : Clashavoon 110 kV K1-2 Coupler - 18<sup>th</sup> March - 30<sup>th</sup> April : 30 WD
- CP1164 : Carrigadrohid 110 kV Full Station - 1<sup>st</sup> May - 15<sup>th</sup> May : 10WD
- CP1164 : Carrigadrohid Macroom 110 kV Circuit - 1<sup>st</sup> May - 4<sup>th</sup> July: 45 WD
- CP1164 : Dunmanway Macroom 11<sup>th</sup> August - 5<sup>th</sup> September : 20 WD
  
- CP1228 : Shannonbridge T2102 : 7<sup>th</sup> July - 22<sup>nd</sup> September : 55 WD
  
- CP 1115 : Drybridge Gorman 110 kV Circuit - 13<sup>th</sup> October - 8<sup>th</sup> December: 40 WD
  
- CP1137 : Carlow Kellis 1 ONE 110 kV Circuit - 22<sup>nd</sup> April - 18<sup>th</sup> June : 40 WD
  
- CP1111 : Cahir 110 kV K1-2 Coupler - 28<sup>th</sup> April - 10<sup>th</sup> June : 30 WD
- CP1111 : Cahir Doon 110 kV Circuit - 15<sup>th</sup> September - 10<sup>th</sup> November : 40 WD



# Protection Upgrades

- CP1140 : Athy Portlaoise 110 kV - 25<sup>th</sup> June - 4<sup>th</sup> July : 8 WD
- CP1140 : Athy 110 kV A2 Busbar - 7<sup>th</sup> July - 18<sup>th</sup> July : 10 WD
- CP1139 : Sligo Srananagh 1 ONE 110 kV Circuit - 7<sup>th</sup> July - 1<sup>st</sup> September : 40 WD



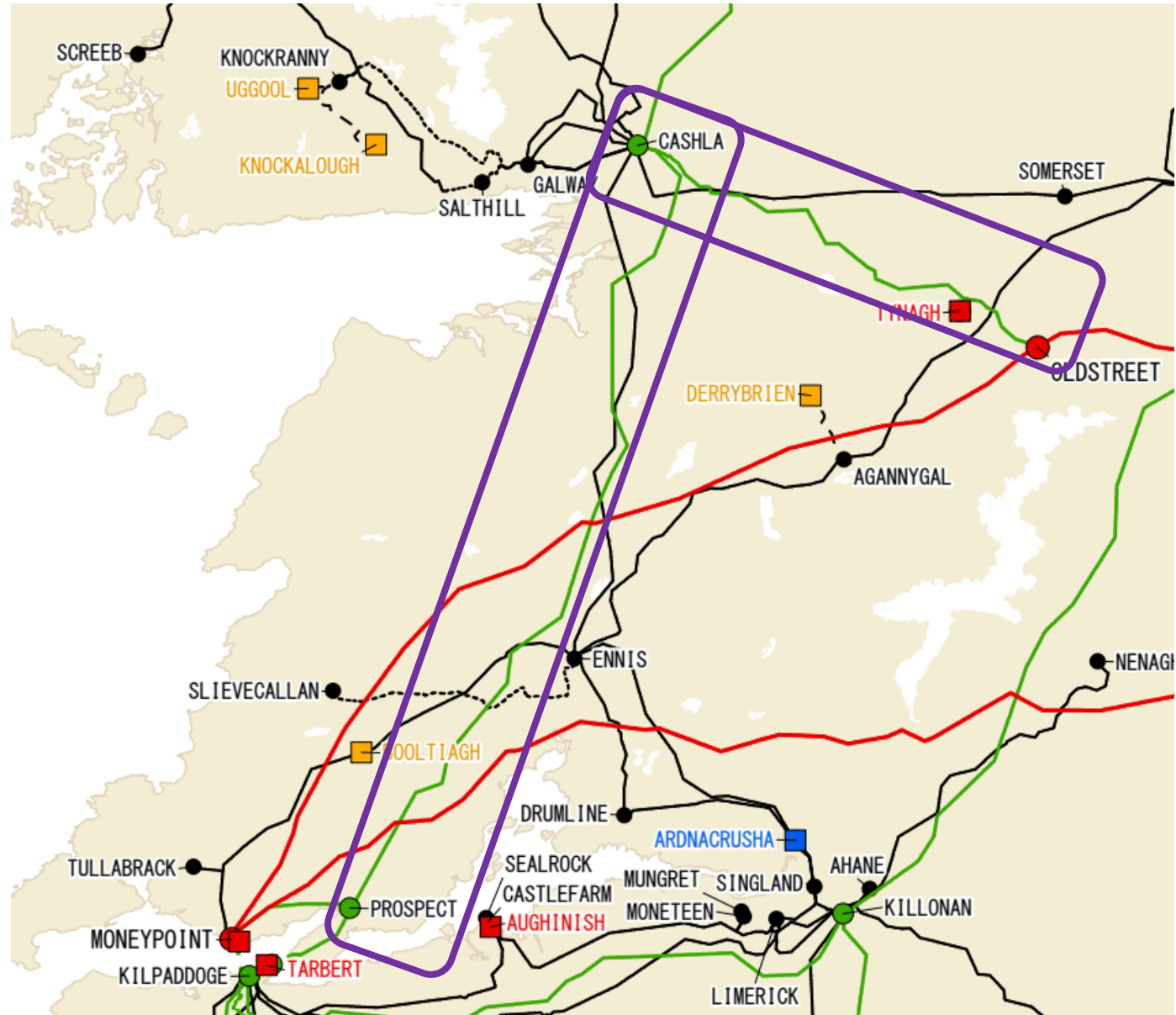
# Protection Upgrades

## CP1153 Oldstreet Cashla Tynagh Protection Upgrade

- Full station outage of Tynagh 220 kV Station
- 24<sup>th</sup> June - 30<sup>th</sup> July (27 working days)
- T2001/2 protection relay replacement and install coupler
- Aligns with generator outage
- Cashla Tynagh 220 kV Circuit
- 19<sup>th</sup> June -21<sup>st</sup> August : 45 WD

## CP1227 Cashla and Connected Station Protection Upgrade

- Cashla Prospect 220 kV Circuit
- 21<sup>st</sup> September - 17<sup>th</sup> November : 40 WD
- Cashla Ennis 110 kV Circuit
- 19<sup>th</sup> March - 16<sup>th</sup> May : 40 WD



# Projects with Limited System Impact

## CP1113 - Corduff Deep Reinforcement

Additional Sectionalising Cubicles in Corduff at both 110 kV & 220 kV

Multiple short outages, majority of which are busbar sections

Outages between 7<sup>th</sup> January & 26<sup>th</sup> February

## CP1201 - Bogtown 110 kV Station

Bogtown Mount Lucas 110 kV Circuit

Install new combined CT/VT in Bogtown 110 kV Station

25<sup>th</sup> February - 1<sup>st</sup> April : 25 working days

## CP1287 - Ringsend

Inchicore Poolbeg 1 ONE 220 kV

Cable diversion to facilitate a new Ringsend GIS

27<sup>th</sup> January - 10<sup>th</sup> March : working 30 days

# Projects with Limited System Impact

## CP1215 - Celtic

Knockraha 220 kV A4 B4 Busbars IN TURN

4<sup>th</sup> February 1<sup>st</sup> May : 60 working days

## CP1412 - Knockraha T2102

Knockraha 110 kV A2 B2 Busbars IN TURN

5<sup>th</sup> September - 28<sup>th</sup> November : 60 working days

Knockraha Woodhouse 110 kV

12<sup>th</sup> November - 25<sup>th</sup> November : 10 working days



## Questions (1 of 2)

Q: Is it possible to share an updated geographical transmission map with the new stations and circuits that are expected to connect in TOP25?

A: The map is being updated and will be uploaded to the EirGrid website in January. An email will be circulated when available

Q: Is it possible to identify the targeted MVA uprate value in the Network Delivery Portfolio documentation?

A: The NDP is a programme update as opposed to a document which outlines the technical parameters of various projects. There are currently no modifications planned to the quarterly NDP publications

## Questions (2 of 2)

Q: It would be great if the annual TOP spreadsheet could be regularly updated to reflect actual (instead of original estimates) outage durations, and to also include outages completed during the year

A: When publishing the annual TOP on a monthly basis we will include the full year instead of just the future period

Q: Is there any update on the CP1233 Donegal - Srananagh Corridor project?

A: CP1233 is currently in Step 3 of our six-step process for developing the grid. At the end of Step 3 we will have selected the best performing option. We plan to complete Step 3 in by the end of Q2 2025, including the Step 3 public and stakeholder engagement and get Gateway 3 approval, also known as EirGrid capital approval. Our six-step process is described [here](#).