



ANNEX 3: COST BENEFIT ANALYSIS

Electricity North West Limited
Registered Office:
304 Bridgewater Place,
Birchwood Park,
Warrington,
Cheshire.
WA3 6XG.

Registered no: 2366949 (England)

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1. Overview

In developing our business plan we have been particularly focused on ensuring that our plans represent good value for money for our customers and all our stakeholders. Our engagement process clearly identified affordability as a key stakeholder priority.

In considering the range of options available to us as we respond to future challenges, we need to carefully consider the benefits and costs of the different options and ensure that we appropriately take into account the fact that some will be more enduring (longer-lived) than others.

In some areas, we have a level of discretion over whether to undertake any action at all in response to a particular issue. In other areas, the need to do something may be a given, but the exact solution may not be prescribed.

In order to help us make these decisions, we use Cost Benefit Analysis (CBA) assessments to thoroughly test alternative options for our plans. CBA is a well-respected process that most companies use in some form to evaluate different investment options.

We use the CBA methodology in the following two ways:

- For discretionary areas CBA is particularly valuable. Where we have significant discretion over both the timing and scope of interventions it ensures we select the most appropriate option. Discretionary choices that could provide value for our customers and achieve our stakeholders' preferences are evaluated by CBA.
- For non-discretionary areas, CBA may still provide valuable insights. Even when we are required to fulfil an obligation, we have evaluated a range of options utilising the CBA methodology alongside stakeholder engagement where appropriate, to select the most suitable option.

This approach ensures a systematic process by consistently calculating and comparing the benefits and costs of alternative investment options. As part of the CBA, all benefits and costs are expressed in monetary terms to allow a like for like comparison and all future benefits and costs are adjusted for the time value of money to allow the calculation of the Net Present Value (NPV) of the alternative options.

In terms of selecting the preferred option, in the case of entirely discretionary investment, this is generally based on the best positive NPV whereas in the context of mandatory but uncertain interventions, this is often on the basis of the 'least worst' option (ie where all options are negative on a strict NPV basis but where there is mandatory requirement to do something).

For a small number of models we have chosen not to adopt the most advantageous NPV where this is marginal to our proposed solution. This is always associated where the option showing the best NPV has significant delivery, compliance or other risk.

To ensure consistency across all companies, Ofgem have prescribed a particular approach to completing CBA assessments. As part of this process, we have defined a common set of benefits to take into account. This requires the quantification of intangible benefits so that they can be compared against the cost to deliver them.

2. Principles for application

In order to apply CBA effectively, we have developed a set of principles to determine where a CBA is applicable. Generally, any investment subject to a CBA should;

- Be material in terms of the investment it supports;
- Be subject to DNO discretion in terms of potential intervention options; and
- Be capable of having its costs and benefits measured.

In addition to areas not passing the general application principles above, the following have been automatically excluded;

- Any compliance-related expenditure;
- Any investment mandated by government policy or the requirements of the distribution licence; and
- Any investment subject to an uncertainty mechanism.

3. Benefits to be modelled

In order to produce a consistent set of CBAs, a common set of benefits needs to be employed in the benefit modelling. This requires the quantification (where possible) of intangible benefits to be compared with NPV cost functions.

The following are the key benefits modelled in the CBA, together with the prime source of calibration;

| Benefit dimension | Measurement |
|--------------------------|--|
| Direct cost incurred | £ NPV |
| Safety | £ Published Cost of Life data x probabilities of incident |
| Environment | £ Cost of Carbon (Green Book value), also cost of oil loss |
| Customer impacts | £ Value of Lost Load or £ IIS incentive rates |

These factors are identical to those used in our Risk model (see Annex 2) to ensure consistency between our decision support and risk evaluation tools.

4. Modelling assumptions

The following modelling assumptions have been adopted throughout all the CBA models we have used which are specific to our business.

| Parameter | Value used |
|-----------------------|-------------------|
| Pre-tax WACC | 4.52% |
| Losses (£/MWh) | £48.42 |
| CI (£/interruption) | £15.44 |
| CML (£/minute lost) | £0.38 |
| Cost per fatality | £1.79m |
| Cost per major injury | £30,000 |

| | |
|----------|-----------|
| Oil cost | £36/litre |
|----------|-----------|

Additionally we have used the following rates which were specified in the model as received from Ofgem.

| | |
|----------------------------|------|
| Discount Rate <= 30 years | 3.5% |
| Discount Rate > 30 years | 3.0% |
| Discount rate for safety | 1.5% |
| Assumed Asset Life (Years) | 45 |

RPI INDICES

Using yearly averages (April to March)

| Index | | convert to 2012/13 |
|--------------|---------|-----------------------|
| Convert from | 2003/04 | 1.3409 |
| | 2004/05 | 1.3004 |
| | 2005/06 | 1.2670 |
| | 2006/07 | 1.2214 |
| | 2007/08 | 1.1730 |
| | 2008/09 | 1.1392 |
| | 2009/10 | 1.1340 |
| | 2010/11 | 1.0804 |
| | 2011/12 | 1.0309 |
| | 2012/13 | 1.0000 |

The model also uses rates for carbon trading and assumptions for the decarbonisation of electricity generation, which can be found in Appendix 1 below.

There are also CBA-specific assumptions made which are included in the individual model narratives as appropriate. These include for example forecasts of future period asset replacement volumes.

The CI and CML impact of work for the various options under consideration are outlined in appendix 3.

Our assessments of the risk of injuries or fatalities have been derived based on asset fault rates only. This means for any option based on higher intervention volumes there will be a further increase of risk of injury or fatality over and above the current assumptions as a result of undertaking these higher volumes.

5. CBA application

Our application of CBAs can be broken down into a number of areas, each satisfying the criteria above and representing 'real world' trade-off decisions. The following section goes through the areas where we have applied the CBA approach and gives examples of each.

Asset management regimes

The majority of our network assets are subject to a lifecycle asset management regime which comprises a mix of interventions through an asset's life. These may include inspections, maintenance, painting, component replacement, refurbishment, life extension and replacement. The majority of our proposed network investment costs for RIIO-ED1 are a function of the lifecycle regimes employed.

It is incumbent on us to demonstrate that these patterns of intervention are optimum compared with other alternatives. As a result, we have completed CBAs for each major asset type and compared our proposed investment pattern with at least two alternatives, including a significant scaling back of near-term investment and a significant increase.

For the reduced option, the short-term reduction in investment is traded off against the consequential impact of increased failures and the increased replacement costs over the longer term. For the enhanced option, the additional near-term costs are considered alongside their incidental benefits and reductions in medium-term replacement requirements.

Specific examples include woodpoles, steel tower lines, distribution plant and EHV & 132kV plant.

In this category, we also consider whether there are any additional standalone drivers that may instigate intervention outside of the normal stewardship regime. Examples include the concurrent replacement of co-located assets and the replacement of high loss but otherwise serviceable transformers on the basis of the costed impact of the loss performance.

All options considered are generally do more / do less options. There are no options proposed to do nothing or to run to failure, and all options considered in the CBAs ensure we always remain legally compliant.

When assets do require end-of-life intervention (ie there is a given need to do 'something'), there can be options to refurbish rather than replace at lower cost but these may have a limited future asset life and/or degradation in performance compared to a new asset. Whilst refurbishment can be an option to keep near-term costs down, we need to show that it is the optimum solution in those areas where we have selected it as the preferred intervention option.

Specific examples in this category include the painting and selective member replacement of steel tower lines, replacement and refurbishment of pressurised cable systems and the re-generation of transformer oil.

These CBAs are to be found as AM1-22. These cover the 19 categories for which we present HI profiles, with the 132kV switchgear category covered by three individual scheme CBAs rather than a generic one.

Opportunistic betterment

Where a CBA or other analysis suggests work is required, there are opportunities to add additional functionality or capability at the same time. This could be at lower cost than would be incurred with a standalone installation; however may be sub-optimally targeted. In these instances, we use CBA to ensure that the cost of any additional functionality is justified by its benefits.

Specific examples include the opportunistic upsizing of cable and plant for capacity purposes, incurring an additional cost for lower loss transformers and the installation of remote control functionality on replacement switchgear to improve fault performance.

For the re-submission, we have added CBAs to cover Black Start strategy options following our change in approach in this area, and one for the potential undergrounding of elements of our most extreme rural HV circuits as a potential storm resilience upgrade.

Co-located activities

Where a CBA or other analysis suggests work is required, there are also opportunities to take advantage of the resources (contractors, materials, outages etc.) employed to undertake additional work on adjacent or associated assets on which work may be planned in the future. This would typically result in lower unit costs but risks the replacement of assets which might otherwise still have had a period of useful life remaining.

This issue is most pertinent when replacing plant on distribution substation sites, where the switchgear and transformers may be in different states and have different remaining life left.

These co-located assets are presented in the risk matrices in appendix 2 within HI categories lower than HI 5 as shown by the pink cells.

Unit costs

Unit costs used within the options presented in the CBAs are generally as per the unit costs forecast in the Business Plan Data Template. This is always the case for the costs of replacing assets and also for other associated costs and savings resulting from options. For refurbishment there are some options that are based on a deeper level of refurbishment scope than that presented in the baseline in table CV5, so increased unit costs have been assumed where appropriate.

Smart Grid / Smart Meter solutions

In determining the optimum solutions to load related activities we have incorporated CBA into our planning work in two ways.

For secondary network activities driven by thermal and voltage compliance issues, we have used the Transform model developed under the auspices of the Smart Grid Forum (SGF). This model contains a specific CBA model within the suite of tools and outputs the optimum set of solutions based on the best current view of the cost and benefits from smart solutions. These solutions included the use of Smart Meter data and we have separately detailed in our submission the non-load related benefits of Smart Meter data.

For investment requirements not within the scope of the Transform model; in the main 132kV and 33kV load related investments we have undertaken a general CBA analysis of smart solutions such as Demand Side Response (DSR) against traditional solutions. This analysis clearly shows the value of smart solutions and we have therefore incorporated these into our investment submissions. In order to fully represent the value of smart solutions for these networks in our plan we have deducted a flat 20% from the price of traditional solutions. This represents the average saving attainable across the broad range of investments required, it is of note that many of the technologies required to attain these savings are not yet mature and hence pricing based on a specific technology such as storage is inappropriate.

Smart technologies require a degree of enabling investment in IT systems such as control room network management systems (NMS). This investment is required to co-ordinate and implement smart solutions such as C₂C, CLASS and meshing technologies. This investment

is detailed in our Operational IT submission but has not been included in the CBA analysis as it forms part of our strategic investment for both RIIO-ED1 and RIIO-ED2.

6. Options development

Our business processes for developing investment programmes involves the consideration of multiple options when we decide that asset intervention is required. Such consideration is normally applied at programme level, but for our larger projects we undertake this on a site by site basis.

In considering the available options we take a whole life view of all related costs ranging from the initial investment through to the inspections and maintenance costs that will be incurred and effects on safety, environment and network performance. For the purposes of this work, this analysis has been transferred into the CBA template for those assets for which we felt a CBA was appropriate.

For the re-submission, we have re-crafted the options evaluated and added a number of additional CBAs to ensure that every HI category is covered by a bespoke CBA. In these models, the options are based on different portfolios of interventions mapped to the RIIO-ED1 risk matrix – see Appendix 2. This shows the scope of each option within the CBAs using a colour scheme applied to a matrix that shows the combinations of HI and CI ratings that are being included within each option. Different mixes of replacement and refurbishment are considered under these options (and including painting for towers).

Intervention strategies target the replacement of poor condition assets that are reaching end of life, but sometimes we elect to also replace assets at that site that may not be in such a poor state of health. We refer to these as consequential assets. Their replacement is either due to engineering reasons or because it makes economic sense to replace these while we have suitable resources on site even though these assets have remaining life. These consequential assets are separately identified in the CBA scope document in Appendix 2.

For each option under each asset group we have made corresponding adjustments to the medium to long term assumptions of forecast volumes for future RIIO regulatory periods using as a baseline plan our Best View projections used as the basis for Annex 22 – Long-term Strategy. These are outlined in Annex 3a.

We have tabulated the results of the CBAs for all options, as shown in the table below. This shows that while our chosen baseline option represents the lowest NPV in most cases, there are some cases when this is not the case. These are generally where there are engineering or site constraints associated with these options.

| NPV Years | | Option | | |
|-----------|-------------------------------|--------|------|------|
| 45 years | Study Area | 1 | 2 | 3 |
| AM1 | LV Woodpoles | -20 | -25 | |
| AM2 | Distribution Switchgear LV | -1 | -21 | |
| AM3 | LV UGB | 0 | -5 | |
| AM4 | HV Woodpoles | -57 | -3 | |
| AM5 | Primary Switchgear | -13 | -21 | -6 |
| AM6 | AM HV Switchgear | -2 | -5 | |
| AM7 | Transformers Distribution | -1 | -1 | |
| AM8 | Steel Towers Conductors 33kv | -5 | | |
| AM9 | EHV Woodpoles | -18 | -18 | |
| AM10 | Steel Towers 33kv | -1 | -4 | -7 |
| AM11 | Oil Cables 33kv | -49 | -13 | -4 |
| AM12 | Gas Cables 33kv | -26 | -28 | |
| AM13 | EHV Switchgear | -12 | -9 | -8 |
| AM14 | EHV Transformers | -5 | -168 | -71 |
| AM15 | Steel Towers Conductors 132kv | -8 | | |
| AM16 | Steel Towers 132kv | -0 | -42 | -45 |
| AM17 | Oil Cables 132kv | -88 | -98 | -124 |
| AM18 | Switchgear 132kv Peel | -1 | | |
| AM19 | Switchgear 132kv Harker | 3 | -1 | |
| AM20 | Switchgear 132kv Padiham | -1 | -1 | -3 |
| AM21 | 132kv Transformers | -8 | -47 | -31 |
| AM22 | Black Start | -10 | -0 | -12 |
| AM23 | Undergrounding | -3 | -12 | 18 |

NO OPTION MODELLED

Further details on the selection of the chosen option are available on the individual CBAs.

Note that the individual 132kV switchgear projects are also covered by individual scheme summaries which give further detail on the options evaluated.

7. CBA schedule

| | Area | Model |
|------|---|---|
| AM1 | AM strategy - woodpoles | LV poles - CBRM (Risk) v Age/Residual strength Mix |
| AM2 | AM strategy - switchgear (distribution) | LV Switchgear - CBRM (Risk) v replacement options |
| AM3 | AM Strategy - LV UGB | LV UGB - Replacement Scenarios |
| AM4 | AM strategy - woodpoles | 11kV poles - CBRM (Risk) v Age/Residual strength Mix |
| AM5 | AM strategy - switchgear (primary) | HV primary CBs - CBRM (Risk) v replacement options |
| AM6 | AM strategy - switchgear (distribution) | Secondary HV CBs - CBRM (Risk) v replacement options |
| AM7 | AM Strategy Transformers (Distribution) | Distribution (GM) - CBRM (Risk) v alternative replacement options |
| AM8 | AM strategy - steel towers | 33kV Fittings and Conductor - CBRM (Risk) v alternative Replace / Refurbishment mix |
| AM9 | AM strategy - woodpoles | 33kV poles - CBRM (Risk) v Age/Residual strength Mix |
| AM10 | AM strategy - steel towers | 33kV Towers - CBRM (Risk) v alternative Replace / Refurbishment mix |
| AM11 | AM Strategy - Oil Cables | 33kV Oil-filled cable replacement programme |
| AM12 | AM Strategy - Gas Cables | 33kV Gas-filled cable replacement programme |
| AM13 | AM strategy - switchgear (EHV) | EHV Switchgear - CBRM (Risk) v replacement options |
| AM14 | AM strategy - transformers (EHV) | EHV - CBRM (Risk) v alternative replacement options |
| AM15 | AM strategy - steel towers | 132kV Fittings and Conductor - CBRM (Risk) v alternative Replace / Refurbishment mix |
| AM16 | AM strategy - steel towers | 132kV Towers - CBRM (Risk) v alternative Replace / Refurbishment mix |
| AM17 | AM Strategy - Oil Cables | 132kV Oil-filled cable replacement programme |
| AM18 | AM strategy - switchgear (132kV) | Peel 132 kV Swgr Replacement |
| AM19 | AM strategy - switchgear (132kV) | Harker 132 kV Swgr Replacement |
| AM20 | AM strategy - switchgear (132kV) | Padiham 132 kV Swgr Replacement |
| AM21 | AM strategy - transformers (132kV) | 132kV - CBRM (Risk) v alternative replacement options |
| AM22 | AM Strategy - Black Start Batteries | Black Start |
| AM23 | AM Strategy 11kV OHL to UG Cable | CBA to compare leaving circuits overhead to undergrounding in areas with high tree density to mitigate the effect of storms |
| L1 | Losses Strategy | Losses Strategy 1 33kV 0.2 copper cables replace with 400 triplex |
| L2 | Losses Strategy | Losses Strategy 2 33kV 0.3 copper cables replace with 400 triplex |
| L3 | Losses Strategy | Losses Strategy 3 33kV 185 copper cables replace with 400 triplex |
| L4 | Losses Strategy | Losses Strategy 4 HV 0.1 cables replace with 300 triplex |
| L5 | Losses Strategy | Losses Strategy 5 HV 95PICAS replace with 300 triplex |
| L6 | Losses Strategy | Losses Strategy 6 HV 95 Triplex replace with 300 triplex |
| L7 | Losses Strategy | Losses Strategy 7 LV 0.1 replace with 300 waveform |
| L8 | Losses Strategy | Losses Strategy 8 LV 95 consac replace with 300 waveform |
| L9 | Losses Strategy | Losses Strategy 9 LV 95 waveform replace with 300 |

| | | |
|------|--|---|
| | | waveform |
| L10 | Losses Strategy | Losses Strategy 10 Transformer 50 PM like for like replacement |
| L11 | Losses Strategy | Losses Strategy 11 Transformer 100 PM like for like replacement |
| L12 | Losses Strategy | Losses Strategy 12 Transformer 200 PM like for like replacement |
| L13 | Losses Strategy | Losses Strategy 13 Transformer 315 GM like for like replacement |
| L14 | Losses Strategy | Losses Strategy 14 Transformer 500 GM like for like replacement |
| L15 | Losses Strategy | Losses Strategy 15 Transformer 800 GM like for like replacement |
| L16 | Losses Strategy | Losses Strategy 16 Transformer 1000 GM like for like replacement |
| L17 | Losses Strategy | Losses Strategy 17 Transformer Grid 45 like for like replacement |
| L18 | Losses Strategy | Losses Strategy 18 Transformer Grid 60 like for like replacement |
| L19 | Losses Strategy | Losses Strategy 19 Transformer Grid 90 like for like replacement |
| L20 | Losses Strategy | Losses Strategy 20 Transformer Primary 10 MVA like for like replacement |
| L21 | Losses Strategy | Losses Strategy 21 Transformer Primary 14 MVA like for like replacement |
| L22 | Losses Strategy | Losses Strategy 22 Transformer Primary 23 MVA like for like replacement |
| P14R | AM strategy - switchgear (indoor/outdoor) | Switchgear Primary 11kV indoor vs outdoor location |
| P15R | AM strategy - co-located asset replacement | Co-located asset replacement at distribution substations |
| P17R | AM strategy - Fault Current Limiter | Primary substation HV CB - defer replacement |
| S1 | Smart Grid Solutions | Smart Grid Solutions - Grid Transformer |
| S2 | Smart Grid Solutions | Smart Grid Solutions - Primary Transformer |
| S3 | Smart Grid Solutions | Smart Grid Solutions - HV Cable |

Appendix 1 – Decarbonisation assumptions

Power sector emissions are anticipated to reduce to 10g/kWh by 2050
assume a linear decarbonisation pathway from 2009/10 until 2050

Power sector emissions reduce by 14.5 g/kWh p.a. between now and 2030.
Beyond 2050 keep emissions at 10g/kWh

| | | g CO2e per kWh | (Defra) |
|--------------------|---------|-------------------|---------------------------------|
| 1,000 kg = 1 tonne | 2009/10 | 589.82 | |
| 1,000 kWh = 1 MWh | 2010/11 | 575.32 | |
| 1 kg = 1,000g | 2011/12 | 560.83 | |
| | 2012/13 | 546.33 | |
| | 2013/14 | 531.84 | |
| | 2014/15 | 517.34 | |
| | 2015/16 | 502.85 | |
| | 2016/17 | 488.35 | |
| | 2017/18 | 473.86 | |
| | 2018/19 | 459.36 | |
| | 2019/20 | 444.87 | |
| | 2012/21 | 430.37 | |
| | 2021/22 | 415.87 | |
| | 2022/23 | 401.38 | |
| | 2023/24 | 386.88 | |
| | 2024/25 | 372.39 | |
| | 2025/26 | 357.89 | |
| | 2026/27 | 343.40 | |
| | 2027/28 | 328.90 | |
| | 2028/29 | 314.41 | |
| | 2029/30 | 299.91 | |
| | 2030/31 | 285.41 | |
| | 2031/32 | 270.92 | |
| | 2032/33 | 256.42 | |
| | 2033/34 | 241.93 | |
| | 2034/35 | 227.43 | |
| | 2035/36 | 212.94 | |
| | 2036/37 | 198.44 | |
| | 2037/38 | 183.95 | |
| | 2038/39 | 169.45 | |
| | 2039/40 | 154.96 | |
| | 2040/41 | 140.46 | |
| | 2041/42 | 125.96 | |
| | 2042/43 | 111.47 | |
| | 2043/44 | 96.97 | |
| | 2044/45 | 82.48 | |
| | 2045/46 | 67.98 | |
| | 2046/47 | 53.49 | |
| | 2047/48 | 38.99 | |
| | 2048/49 | 24.50 | |
| | 2049/50 | 10.00 | |
| | check | 10.00 | assumption; power sector should |

reduce to 10 g CO₂e/kWh

14.50 p.a. reduction in carbon intensity

| | 2012/13 prices | Traded price 2010/11) ¹ | traded carbon price (£/t 2012/13 prices) | Electricity GHG conversion factor (tonnes per MWh) ³ |
|----|----------------|------------------------------------|--|---|
| 1 | 2016 | 6.76 | 7.30 | 0.503 |
| 2 | 2017 | 7.10 | 7.67 | 0.488 |
| 3 | 2018 | 7.55 | 8.16 | 0.474 |
| 4 | 2019 | 8.03 | 8.68 | 0.459 |
| 5 | 2020 | 8.55 | 9.24 | 0.445 |
| 6 | 2021 | 15.26 | 16.49 | 0.430 |
| 7 | 2022 | 21.97 | 23.74 | 0.416 |
| 8 | 2023 | 28.68 | 30.98 | 0.401 |
| 9 | 2024 | 35.39 | 38.23 | 0.387 |
| 10 | 2025 | 42.10 | 45.48 | 0.372 |
| 11 | 2026 | 48.81 | 52.73 | 0.358 |
| 12 | 2027 | 55.52 | 59.98 | 0.343 |
| 13 | 2028 | 62.23 | 67.23 | 0.329 |
| 14 | 2029 | 68.94 | 74.48 | 0.314 |
| 15 | 2030 | 75.65 | 81.73 | 0.300 |
| 16 | 2031 | 81.00 | 87.51 | 0.285 |
| 17 | 2032 | 88.00 | 95.07 | 0.271 |
| 18 | 2033 | 95.00 | 102.63 | 0.256 |
| 19 | 2034 | 102.00 | 110.20 | 0.242 |
| 20 | 2035 | 109.00 | 117.76 | 0.227 |
| 21 | 2036 | 116.00 | 125.32 | 0.213 |
| 22 | 2037 | 122.00 | 131.80 | 0.198 |
| 23 | 2038 | 129.00 | 139.37 | 0.184 |
| 24 | 2039 | 136.00 | 146.93 | 0.169 |
| 25 | 2040 | 143.00 | 154.49 | 0.155 |
| 26 | 2041 | 150.00 | 162.05 | 0.140 |
| 27 | 2042 | 157.00 | 169.62 | 0.126 |
| 28 | 2043 | 164.00 | 177.18 | 0.111 |
| 29 | 2044 | 171.00 | 184.74 | 0.097 |
| 30 | 2045 | 178.00 | 192.30 | 0.082 |
| 31 | 2046 | 184.00 | 198.79 | 0.068 |
| 32 | 2047 | 191.00 | 206.35 | 0.053 |
| 33 | 2048 | 198.00 | 213.91 | 0.039 |
| 34 | 2049 | 205.00 | 221.47 | 0.024 |
| 35 | 2050 | 212.00 | 229.04 | 0.010 |
| 36 | 2051 | 220.00 | 237.68 | 0.010 |
| 37 | 2052 | 227.00 | 245.24 | 0.010 |
| 38 | 2053 | 234.00 | 252.80 | 0.010 |
| 39 | 2054 | 241.00 | 260.37 | 0.010 |
| 40 | 2055 | 248.00 | 267.93 | 0.010 |

| | | | | |
|----|------|--------|--------|-------|
| 41 | 2056 | 256.00 | 276.57 | 0.010 |
| 42 | 2057 | 262.00 | 283.05 | 0.010 |
| 43 | 2058 | 269.00 | 290.62 | 0.010 |
| 44 | 2059 | 276.00 | 298.18 | 0.010 |
| 45 | 2060 | 282.00 | 304.66 | 0.010 |
| 46 | 2061 | 287.00 | 310.06 | 0.010 |
| 47 | 2062 | 292.00 | 315.47 | 0.010 |
| 48 | 2063 | 297.00 | 320.87 | 0.010 |
| 49 | 2064 | 301.00 | 325.19 | 0.010 |
| 50 | 2065 | 305.00 | 329.51 | 0.010 |
| 51 | 2066 | 309.00 | 333.83 | 0.010 |
| 52 | 2067 | 312.00 | 337.07 | 0.010 |

Appendix 2 - CBA scope document for AM-series models

| WJPB Ref | Rework Ref | Area | Model | Baseline | Option 1 | Option 2 | Option 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| P6R | AM1 | AM strategy - woodpoles | LV poles - Policy | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | C1 | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | N/A | | | | | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P13R | AM2 | AM strategy - switchgear (distribution) | LV Switchgear (ID, OD at S/S, WM) - CBRM (Risk) | 80% HI5 & C1-C4 | | | | 100% HI5 & C1-C4 | | | | Replace all baseline no Refurb | | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | C1 | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P20N | AM3 | AM Strategy - LV UGB | LV UGB & FP - CBRM | 33% of HI5 & C1-4 | | | | Excludes HISC1 in baseline | | | | Replace all HI5 (from HI2 Table Total) | | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5R | AM4 | AM strategy - woodpoles | 11kV poles - Policy | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | C1 | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | N/A | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P11R | AM5 | AM strategy - switchgear (primary) | HV primary CBs - CBRM (Risk) | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | Percentage Take Pink only | 6 4 11 | 6 4 | 6 4 11 | 6 4 |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P12R | AM6 | AM strategy - switchgear (distribution) | Secondary HV Swgr (CB, RMU, SW) - CBRM (Risk) | 20% Increase of baseline | | | | 100% HI5 & C1-4 | | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | Percentage take | 0% 6% 2% 25% 100% | 0% 6% 2% 25% 100% | 0% 6% 2% 25% 100% | 0% 6% 2% 25% 100% |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P21N | AM7 | AM Strategy Transformers (Distribution) | Distribution (GM) - CBRM (Risk) | 77% of HI5 & C2-4 | | | | 10% Increase of baseline | | | | Replace all HI5 | | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P22N | AM8 | AM strategy - steel towers | 33kV Fittings and Conductor - CBRM (Risk) | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | N/A | N/A | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4R | AM9 | AM strategy - woodpoles | 33kV poles - Policy | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | N/A | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3R | AM10 | AM strategy - steel towers | 33kV Towers - CBRM | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | 100% 0% | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1R | AM11 | AM Strategy - Oil Cables | 33 kV Oil-filled cable replacement programme | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P19N | AM12 | AM Strategy - Gas Cables | 33kV Gas-filled cable replacement programme | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | N/A | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P10R | AM13 | AM strategy - switchgear (EHV) | EHV Switchgear - CBRM (Risk) | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | Percentage Take Pink only | 12 | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P8R | AM14 | AM strategy - transformers (EHV) | EHV - CBRM (Risk) | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | Percentage take | | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P24N | AM15 | AM strategy - steel towers | 132kV Fittings and Conductor - CBRM (Risk) | <table border="1"> <tr><td>HI</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | C1 | | | | | | | | | | | | | | | | | | | | | | C2 | | | | | | | | | | | | | | | | | | | | | | C3 | | | | | | | | | | | | | | | | | | | | | | C4 | | | | | | | | | | | | | | | | | | | | | | N/A | N/A | | | |
| HI | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Appendix 3 - CI and CML assumptions

| Asset type | Ref | Base - Op1 | Base - Op2 | Base - Op3 | Change in CI's per annum Option 1 | Change in CI's per annum Option 2 | Change in CI's per annum Option 3 | Customer Interrupted | Duration Mins | Applied to Fault Volume | Fault numbers | Absolute Baseline position | | Option 1 | | Option 2 | | Option 3 | | |
|--|------|------------|------------|------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------|---------------|-------------------------|---------------|----------------------------|-----------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|---|
| | | | | | | | | | | | | Total CI | Total CML | Change in CI per annum | Change in CML per annum | Change in CI per annum | Change in CML per annum | Change in CI per annum | Change in CML per annum | |
| LV Poles | AM1 | 12883 | 0 | 0 | -2.716% | | | 200 | 20 | 100% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LV Pillar (ID) | AM2 | | | | | | | | | | | | | | | | | | | |
| LV Pillar (OD at Substation) | AM2 | -1202 | 3422 | 3737 | 0.904% | -2.574% | -2.811% | 200 | 120 | 100% | 83 | 16600 | 9960 | 150.11 | 90.069 | -427.4 | -256.4 | -466.7 | -46.67 | |
| LV Board (WM) | AM2 | | | | | | | | | | | | | | | | | | | |
| LV UGB & LV Pillars (OD not at Substation) | AM3 | 140 | -3510 | 1215 | -0.087% | 2.187% | -0.757% | 200 | 120 | 100% | 6 | 1200 | 720 | -1.047 | -0.628 | 26.244 | 15.746 | -9.082 | -0.908 | |
| 6.6/11kV Poles | AM4 | 28592 | 0 | 0 | -17.815% | | | 500 | 70 | 100% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6/11kV CB (GM) Primary | AM5 | -1426 | -1413 | -1431 | 0.888% | 0.880% | | 6000 | 70 | 100% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6/11kV CB (GM) Secondary | | | | | | | | | | | | | | | | | | | | |
| 6.6/11kV Switch (GM) | AM6 | -1239 | -2599 | 0 | 0.509% | 1.067% | | 1000 | 55 | 100% | 135 | 135000 | 7425 | 686.5 | 37.758 | 1440 | 79.203 | | | |
| 6.6/11kV RMU | | | | | | | | | | | | | | | | | | | | |
| 6.6/11kV Transformer (GM) | AM7 | -145 | -328 | 0 | 0.109% | 2.912% | | 200 | 55 | 100% | 153 | 30600 | 8415 | 33.253 | 9.1445 | 891.05 | 245.04 | | | |
| 33kV Pole | AM9 | 2371 | 0 | | -2.358% | | | 6000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | | | | | |
| 33kV OHL (Tower line) Conductor | | | | | | | | | | | | | | | | | | | | |
| 33kV Fittings | AM8 | -140 | 0 | 0 | 0.980% | | | 6000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | | | | | |
| 33kV UG Cable (Oil) | AM11 | | | | | | | 6000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33kV UG Cable (Gas) | AM12 | -59 | -35 | | 3.148% | 1.563% | | 6000 | 70 | 1% | 0.53 | 31.8 | 0.37 | 0.01 | 0.0001 | 0.005 | 6E-05 | 0 | 0 | 0 |
| 33kV CB (Gas Insulated Busbars)(ID) (GM) | AM13 | -80 | -146 | -68 | 5.051% | 11.624% | 3.586% | 6000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33kV Transformer (GM) | AM14 | -143 | -292 | -5 | 2.490% | 18.622% | 0.184% | 6000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132kV Tower | AM16 | 1291 | 725 | 725 | -5.167% | -4.330% | -11.300% | 10000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132kV Transformer | AM21 | 16 | 1 | 21 | -1.250% | -0.391% | -16.406% | 50000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132kV OHL (Tower Line) Conductor | AM15 | | | | | | | | | | | | | | | | | | | |
| 132kV Fittings | AM15 | -224 | | | 0.389% | | | 50000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | | | | | |
| 33kV Tower | AM10 | 196 | 54 | 54 | -2.634% | -1.197% | -1.834% | 12000 | 70 | 1% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

