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1.5 Visualisations - Photomontages

January 2022

nationalgrid



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1. PHOTOMONTAGES FOR THE STATUTORY CONSULTATION

1.1 **Introduction to the Project**

- 1.1.1 National Grid is proposing to reinforce the transmission network between the existing Bramford Substation in Suffolk, and Twinstead Tee in Essex (hereafter referred to as 'the project'). This would be achieved by the construction and operation of a new 400kV electricity transmission line over a distance of approximately 29km.
- 1.1.2 The reinforcement would comprise approximately 19km of overhead line (including pylons and conductors the 'line part') and approximately 10km of underground cable system. Four cable sealing end (CSE) compounds would be required to facilitate the transition between the overhead line and underground cable technology. Each CSE compound would be within a fenced compound, and contain electrical equipment, support structures, a small control building and a permanent access track.
- 1.1.3 National Grid is proposing to remove approximately 27.5km of existing overhead line and associated pylons as part of the project. This comprises approximately 25km of existing 132kV overhead line between Burstall Bridge and Twinstead Tee, and approximately 2.5km of the existing 400kV overhead line to the south of Twinstead Tee. To facilitate the 132kV overhead line removal, a new grid supply point (GSP) substation would be required at Butler's Wood, east of Wickham St Paul, in Essex. The GSP substation would require some accompanying works, including replacement pylons and underground cables to tie the GSP substation into the existing 400kV and 132kV networks and a single circuit CSE compound. Further details on the proposed features can be found in Chapter 4: Project Description in the Preliminary Environmental Information Report.
- National Grid will be applying for a Development Consent Order (DCO) in order to construct, operate, maintain and decommission the project. The application will identify the Order Limits, 1.1.4 which will encompass the land required temporarily to build the project and permanently to operate the project. The Order Limits will include the Limits of Deviation (LoD), which represent the maximum variation within which the final alignment and pylons would lie.
- The project is split into seven sections based on the landscape character areas and feedback from consultation: 1.1.5
 - Section AB: Bramford Substation to Hintlesham;
 - Section C: Brett Valley;
 - Section D: Polstead;
 - Section E: Dedham Vale Area of Outstanding Natural Beauty (AONB;
 - Section F: Leavenheath and Assington; •
 - Section G: Stour Valley; and
 - Section H: GSP Substation.

1.2 Purpose of this Document

- 1.2.1 This document presents the photomontages that have been prepared to support the statutory consultation on the project. A sample selection of sixteen viewpoints have been presented to represent how the project may be seen from a range of locations, distances and receptors across the different project sections. A location plan is provided in Appendix 2 showing the geographical locations of these across the whole project.
- Information relating to these viewpoints and the reasons for their selection is outlined in Appendix 1. The majority of the viewpoints are given a reference number representative of the section 1.2.2 within which they lie, for example AB-03 lies within Section AB: Bramford Substation to Hintlesham. The exception is HV-01, which has been selected as a representative heritage viewpoint (HV) due to the proximity of the project to Hintlesham Hall (a Grade I listed building).
- National Grid is presenting two options at Hintlesham Woods during the statutory consultation in order to seek feedback before deciding which to take forward: 1.2.3
 - Hintlesham Wood Option 1: North and west of Ramsey Wood- The existing 400kV overhead line would be diverted on new pylons to the north and west of the woodland. The proposed 400kV overhead line would use the existing pylons through the woodland.
 - Hintlesham Wood Option 2: A parallel overhead line south of the existing 400kV- The existing 400kV overhead line would remain in situ. The proposed 400kV overhead line would be constructed parallel to the existing overhead line to the south on new pylons located outside of the woodland.
- 1.2.4 Where the options would provide a different feature within a view, two photomontages have been prepared. Hintlesham Wood Option 1 is labelled as 'a', Hintlesham Wood Option 2 is labelled as 'b'.
- 1.2.5 All of the photomontages presented within Appendix 3 of this document are produced at A3 for ease of reading and for information purposes only. The photomontages are also available on request, at A1 size, in line with the Landscape Institute guidance. Requests for A1 copies should be made to contact@bramford-twinstead.nationalgrid.com.

1.3 Methodology

1.3.1 The photomontages have been produced following professional guidelines laid out by the Landscape Institute in their Advice Note of 06/19 Visual Representation of Development Proposals. They have been produced to at least meet the criteria for Visualisation Type 3: Photomontage/Photowire to represent the appearance, context, form and extent of the project.

- 1.3.2 Photographs were taken from viewpoints, in July 2021, towards the proposed project from publicly accessible places, such as public rights of way (PRoW). Cameras were levelled and set up on a tripod at a standard viewing height of 1.6m. Other details such as the camera and lens used, the location, date and time of the photography and other technical information are presented within the title block on each photomontage in accordance with professional guidance. The panoramic baseline photographs used to generate the photomontages, have been formed from a number of separate images taken in sequence and stitched together using PTGui and Adobe Photoshop software.
- A three-dimensional computer model of the project has been generated using individual models of indicative pylon locations, CSE compounds and the GSP substation. The photomontages 1.3.3 do not show any proposals for embedded mitigation such as planting or any additional mitigation such as proposed use of colours or material which will be considered in the environmental impact assessment and as such represent a worst-case scenario in terms of potential changes in views.
- 1.3.4 The following bullet points summarise the key limitations and assumptions considered in the production of the photomontages:
 - Modelling of the project is based on the Draft Alignment for describing the route of the project as currently proposed. The Draft Alignment is a concept to help communicate the potential route (both overhead and underground sections) of the project but as noted above. National Grid will not be seeking approval for a specific alignment (including pylon locations). Therefore, the pylon locations, CSE compounds, GSP substation and other features shown should be treated as indicative and may be subject to change;
 - Modelling is based on 5m Digital Terrain Model (OS Terrain 5) data so subtleties of localised landform changes may not be fully represented this is not considered to be an issue in the • photomontages presented in this document;
 - At this point in the engineering design, proposed CSE compounds have no proposed ground level information, therefore locations were fixed based on simple cut/fill balance, and involved • no earthworks modelling;
 - At this point in the engineering design, permanent access roads to the CSE compounds and GSP substation have not been modelled due to limited detail; and
 - Vegetation clearance has been shown only where this would be close up and obvious in the view (such as in viewpoint C-03).

1.4 **Next Steps**

- 1.4.1 More viewpoint photographs will be taken over winter 2021-2022 and in summer 2022 so that additional photomontages can be produced to accompany the application for development consent. The photomontages will be produced to Visualisation Type 4: Photomontage/Photowire (survey/scale verifiable) to represent highest level of accuracy and verifiability.
- Photographic images alone cannot provide the visual experience that a human observer would receive in the field and should therefore be considered an aide-mémoire and for illustration of 1.4.2 how the project would be likely to sit in a view. As such, the photomontages will not be used to make professional judgements on the landscape and visual impacts of the project. Detailed assessment and considered judgements will be made on the basis of site inspection by chartered and experienced Landscape Architects.

References

Landscape Institute Technical Guidance Note 06/19 – Visual Representation of Development Proposals, Landscape Institute 17 September 2019

Photomontage Viewpoint Reference	Viewpoint Title	X (Easting), Y (Northing)	Approximate Distance From the Nearest Visible Overhead Feature (e.g. pylon) of the Project	Reasons for Selection
AB-03 (Photomontages 'a' and 'b' represent the two options)	View from Church Hill looking south west towards Hintlesham	609261, 245165	374m	This viewpoint is representative of views experienced by p Burstall and Burstall Hill, people living on Church Hill and p photomontage illustrates how the project would likely appe overhead line.
AB-11	View from PRoW near Business Park on Pond Hall Road	604654, 241717	518m	This viewpoint is representative of views experienced by p photomontage illustrates how the project would likely appe 400kV overhead line and in the context of the 132kV overh
HV-01 (Photomontages 'a' and 'b' represent the two options)	View north west from Hintlesham Hall	608268, 243882	370m	This viewpoint is representative of views experienced by p (which is Grade I listed) and associated outbuildings. The likely appear relatively close up, in relation to the existing 4 Hintlesham Hall and associated outbuildings.
AB-20 (Photomontages 'a' and 'b' represent the two options)	View west from Hintlesham Hall	608225, 243741	455m	This viewpoint is representative of views experienced by p represents views from people visiting Hintlesham Hall. The likely appear in closer proximity to the northwest and more Hintlesham Woods, in relation to existing 400kV overhead
C-03 (Photomontages 'a' and 'b' represent the two options)	View from Overbury Hall	602227, 240572	416m	This viewpoint is representative of views experienced by p communities to the south and west. The photomontage illu close up, in relation to the existing 400kV overhead line an being removed.
C-08	View from PRoW off Wade's Lane north of Brett Vale Golf Club	604217, 238858	2,178m	This viewpoint is representative of views experienced by p Brett Vale Golf Club. The viewpoint is also located on the e Natural Beauty (AONB). The photomontage illustrates how relation to the existing 400kV overhead line and in the com
D-02	Views south east from PRoW on Rands Road	600592, 240802	902m	This viewpoint is representative of views experienced by p photomontage illustrates how the project would likely appe 400kV overhead line and in the context of the 132kV overh
D-04	View from PRoW between Polstead Road and Stoke Road	600467, 239243	486m	This viewpoint is representative of views experienced by p scattered communities in the area. The photomontage illus East CSE compound) would likely appear in relation to the of the 132kV overhead line being removed.
E-07	View from PRoW near Whitestreet Green in Dedham Vale AONB	597278, 239483	2,175m	This viewpoint is representative of views experienced by p northwest edge of Whitestreet Green. The viewpoint is also photomontage illustrates how the project would likely appe 400kV overhead line and in the context of the 132kV overh Dedham Vale West CSE compound.
F2.14	View from PRoW south of Assington Hall	593733, 238479	1,338m	This viewpoint is representative of views experienced by p of Assington and people using the PRoW network. The ph likely appear at a distance, in relation to the existing 400k overhead line being removed.
F-10	View from PRoW near Moor's Farm to the south of Assington	593024, 236748	310m	This viewpoint is representative of views experienced by p communities to the south of Assington and people using th how the project would likely appear close up, in relation to context of the 132kV overhead line being removed.

Appendix 1 Photomontage Viewpoints and Reasons for Selection

y people moving between the communities of d people using the PRoW network. The pear close up, in relation to the existing 400kV

people using the PRoW network. The bear relatively close up, in relation to the existing erhead line being removed.

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v people using the PRoW network. It also the photomontage illustrates how the project would ore distant in views directly west, towards ad line.

r people moving between Hadleigh and Ilustrates how the project would likely appear and in the context of the 132kV overhead line

v people using the PRoW network in the vicinity of e edge of the Dedham Vale Area of Outstanding ow the project would likely appear at a distance, in ontext of the 132kV overhead line being removed.

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r people using the PRoW network and living in lustrates how the project (including Dedham Vale he existing 400kV overhead line and in the context

people using the PRoW network and living on the llso located within Dedham Vale AONB. The pear relatively distantly, in relation to the existing erhead line being removed. The view also includes

v people living and moving around the community obotomontage illustrates how the project would kV overhead line and in the context of the 132kV

people living and moving around the scattered
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 to the existing 400kV overhead line and in the

Photomontage Viewpoint Reference	Viewpoint Title	X (Easting), Y (Northing)	Approximate Distance From the Nearest Visible Overhead Feature (e.g. pylon) of the Project	Reasons for Selection
F-20	View from Assington Lane to the east of Hagmore Green	595803, 239263	1,275m	This viewpoint is representative of views experienced by p photomontage illustrates how the project (including Dedha appear at a distance, in relation to the existing 400kV over overhead line being removed.
G2.5	View from Langley Hill to the south of Lamarsh	589400, 235241	1,230m	This viewpoint is representative of views experienced by the around between Lamarsh and Bures and people using the how the project would likely appear, in relation to the existing the 132kV overhead line being removed. It also illustrates
G-07	View from PRoW near Mabb's Corner	586851, 234888	191m	This viewpoint is representative of views experienced by p community to the southwest of Alphamstone and people u illustrates how the project (including the Stour Valley West to the removal of existing 400kV overhead line south of the
G-18	View from PRoW near Rectory Lane on the edge of Wickham St Paul	583365, 236915	900m	This viewpoint is representative of views experienced by p of Wickham St Paul and people using the PRoW network. substation would likely appear at a slight distance in relation
G-26	View from PRoW to the south of Middleton	587081, 238927	3,660m	This viewpoint is representative of views experienced by p Edmund Way). The photomontage illustrates the benefits line and also the removal of the 400kV overhead line south

v people using the PRoW network. The ham Vale West CSE compound) would likely verhead line and in the context of the 132kV

y the scattered communities and people moving he PRoW network. The photomontage illustrates isting 400kV overhead line and in the context of es the Stour Valley East CSE compound.

v people living and moving around the scattered using the PRoW network. The photomontage est CSE compound) would likely appear, in relation the Twinstead Tee.

v people living and moving around the community
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 ation to the existing 400kV overhead line.

y people using the PRoW network (including St is of the removal of the existing 132kV overhead uth of the diamond crossing.

Appendix 2 Location Plan

Hintlesham Wood Option 1



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Hintlesham Wood Option 2







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—	posed Grid Supply Point (GSP) Substation Site			
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These figures show the Draft Alignment. However, as the project will require a development consent order (DCO), it will be applying for Order Limits and Limits of Deviation, within which any final alignment would lie. Therefore the Draft Alignment should be treated as indicative and are shown for the purposes of assessment only.				
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Appendix 3 Photomontages

























VIEWPOINT AB20: View west from Hintlesham Hall.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Guidance Note 06/19) Date and time of photograph: 27/07/21 at 10:59 Lighting conditions: Light rain OS grid reference: 608225.254, 243741.836 Viewpoint ground elevation: 51.770 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/500 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 248° Distance to nearest project structure: 607 m



NOTES:

NOTES:
1) This photomontage is for illustrative purposes only.
2) Refer tof Figure 1 for map legend information.
3) Images reflect the design proposals at a preliminary stage, for use in consultation and reflect the project without mitigation proposals shown.
4) If using this photomontage illustration to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size.

6) If viewing these figures online, images will be low-resolution and therefore should only be used for information purposes.







VIEWPOINT AB20: View west from Hintlesham Hall.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Guidance Note 06/19) Date and time of photograph: 27/07/21 at 10:59 Lighting conditions: Light rain OS grid reference: 608225.254, 243741.836 Viewpoint ground elevation: 51.770 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/500 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 248° Distance to nearest project structure: 607 m



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VIEWPOINT C08: View from the Public Right of Way off Wade's Lane north of Brett Vale Golf Club.

Vale GOIr Club. Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Date and time of photograph: 27/07/21 at 15.05 Lighting conditions: Overcast OS grid reference: 604217.315, 238858.713 Viewpoint ground elevation: 46.196 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/1250 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 315° Distance to nearest project structure: 2178 m



NOTES:
1) This photomontage is for illustrative purposes only.
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4) If using this photomontage illustration to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
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5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size

6) If viewing these figures online, images will be low-resolution and therefore should only be

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used for information purposes.















VIEWPOINT E07: View from the Public Right of Way near Whitestreet Green in Dedham Vale Area of Outstanding Natural Beauty.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Cultance Note Uo/19) Date and time of photograph: 28/07/21 at 08.55 Lighting conditions: Overcast OS grid reference: 597278.564, 239483.803 Viewpoint ground elevation: 47.033 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/800 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 0° Distance to nearest project structure: 2175 m



NOTES:

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 Refer tof Figure 1 for map legend information.
 Images reflect the design proposals at a preliminary stage, for use in consultation and reflect the project without mitigation proposals shown.
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- 5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size
- 6) If viewing these figures online, images will be low-resolution and therefore should only be
- used for information purposes.







VIEWPOINT F2.14: View from the Public Right of Way to the south of Assington Hall.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Date and time of photograph: 28/07/21 at 10.07 Lighting conditions: Overcast OS grid reference: 593733.301, 238479.719 Viewpoint ground elevation: 59.208 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/800 Horizontal field of view: 90° Variatei field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 156° Distance to nearest project structure:1338 m



NOTES:

- NOTES:
 1) This photomontage is for illustrative purposes only.
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 5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size
 6) If viewing these figures online, images will be low-resolution and therefore should only be used for information purposes.

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Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Date and time of photograph: 28/07/21 at 10.42 Lighting conditions: Overcast OS grid reference: 593024.496, 236748.41 Viewpoint ground elevation: 59.241 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/1000 Horizontal field of view: 90° Vicationi field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 354° Distance to nearest project structure: 310 m



NOTES:

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 Images reflect the design proposals at a preliminary stage, for use in consultation and reflect the project without mitigation proposals shown.
 If using this photomontage illustration to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
 If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size.

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VIEWPOINT G2.5: View from Langley Hill to the south of Lamarsh.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Date and time of photograph: 28/07/21 at 11.14 Lighting conditions: Overcast OS grid reference: 589400.701, 235241.194 Viewpoint ground elevation: 52.728 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/1000 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 45° Distance to nearest project structure: 1230 m



NOTES:

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4) If using this photomontage illustration to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
5) If using this photomontage illustration for landscape context, the figure may be viewed at A3. 5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size

Silect size 6) If viewing these figures online, images will be low-resolution and therefore should only be used for information purposes.













PHOTOMONTAGE - SUMMER IN OPERATION



VIEWPOINT G26: View from the Public Right of Way to the south of Middleton.

Visualisation type: Type 3 (in accordance with Landscape Institute Visual Representation of Development Proposals Technical Guidance Note 06/19) Date and time of photograph: 28/07/21 at 11.48 Lighting conditions: Overcast OS grid reference: 587081.294, 238927.714 Viewpoint ground elevation: 58.139 m Projection: Cylindrical Sheet size: A1 Enlargement factor: 96% @ A1

Camera type: Canon EOS 5D MARK III Camera lens size: 50 mm Camera height above ground level: 1.6 m Aperture: F/5.6 ISO: 200 Shutter speed: 1/800 Horizontal field of view: 90° Vertical field of view: 27° Bearing to centre of panoramic: 180° Distance to nearest project structure: 3660 m



NOTES:

- 1) This photomontage is for illustrative purposes only.
 2) Refer tof Figure 1 for map legend information.
 3) Images reflect the design proposals at a preliminary stage, for use in consultation and reflect the project without mitigation proposals shown.
 4) If using this photomontage illustration to judge scale, view at A1 sheet size. The A1 sheet should be viewed centrally at a comfortable arm's length.
 5) If using this photomontage and using the proposal at a prediction of proposal shown.
- 5) If using this photomontage illustration for landscape context, the figure may be viewed at A3 sheet size
- 6) If viewing these figures online, images will be low-resolution and therefore should only be

- used for information purposes.



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