

GUIDANCE FOR VISUALISATIONS for large scale infrastructure projects including RENEWABLE ENERGY DEVELOPMENT PROPOSALS

The Highland Council guidelines ([THC guidelines](#)) are used by the Leeds City Council to assess visualisations submitted with planning applications for large scale infrastructure projects and renewable energy development (for example wind turbines, solar farms, anaerobic digestion plants etc.). The minimum requirements are summarised below. Please contact us to agree exact requirements if confirmation is required.

1. PHOTOGRAPHIC STANDARDS

Considerable importance is placed on high quality professional photography. Only 35mm format cameras with a minimum resolution of 21MP shall be permitted. Images taken with a fixed 50mm lens shall be used as the verifiable base reference for all photographic images for Visual Impact Assessment. Images taken with digital cameras fitted with reduced size sensors shall not be accepted. Full sensor size is 36x24mm.

2. IMAGES FOR LANDSCAPE ASSESSMENT

- a. The base panorama for each viewpoint can be formed in two ways:
 - Stitching three or more 50mm photographs together in planar (not cylindrical) projection. The original 50mm photograph which forms the centre the panorama shall be submitted for verification or;
 - The base image is taken with a 28mm fixed lens (65.5° horizontal field of view), lens-corrected in professional software profiled to the exact camera model and lens specification and horizontally cropped to the vertical field of view of a 50mm lens (27.0°). The original 28mm photograph shall be submitted for verification.
- b. Each panorama shall be printed at an image width of 390mm on an A3 page labelled IMAGES FOR LANDSCAPE ASSESSMENT top right;
- c. The technical information bar below the image shall contain the following information: viewpoint number, location title, figure number, distance to nearest visible turbine, camera model, vertical and horizontal focal length with fields of view, camera height, date and time of day the photograph was taken;
- d. The second page shall contain two images: The baseline photograph of the existing view along with a wireline or solid model render.

3. IMAGES FOR VISUAL IMPACT ASSESSMENT

For each viewpoint, the following graphics are required:

- **50mm single frame colour photomontage** (39.6° horizontal field of view)
 - **75mm single frame colour photomontage** (27.0° horizontal field of view)
- a. The images should be clearly labelled 'IMAGE FOR VISUAL IMPACT ASSESSMENT' in the top right of the image page;
 - b. For all single frame images, digital copies of the original 50mm photograph with embedded metadata shall be submitted for verification. This shall be submitted on CD/DVD but separate from all information and clearly labelled. 50mm single frame images extracted from cylindrical panoramas or from images taken with a wide-angle lens shall not be accepted;
 - c. All single frame photomontages shall be produced to a standard image size of 390mm x 260mm on A3 pages so that the images can be verified;
 - d. The application feature shall be shown at the centre of the field of view facing the camera. The technical information bar below for both images shall contain the following information: Figure number, viewpoint number, location title, distance to nearest visible turbine, camera model, focal length, camera height, and the date and time of day the photograph was taken. For 50mm image add "*not representative of scale and distance*".