

# Hagshaw Energy Cluster Western Expansion

## Visualisations of the Wind Turbine Component

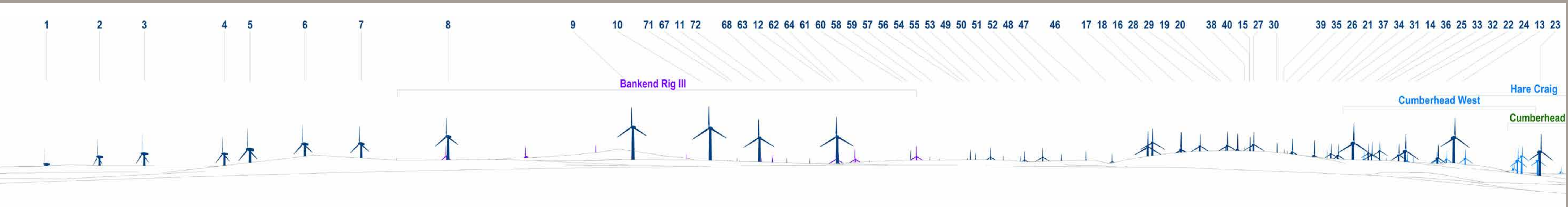
The following visualisations provide an indication of what the wind turbine component of the proposed development would look like from Victory Park in Muirkirk under the two scenarios described on the previous board.

### Viewpoint 2: Victory Park in Muirkirk



Baseline photograph showing the current view looking north from Victory Park, Muirkirk.

### Scenario 1 – All turbines at 230 m to blade tip

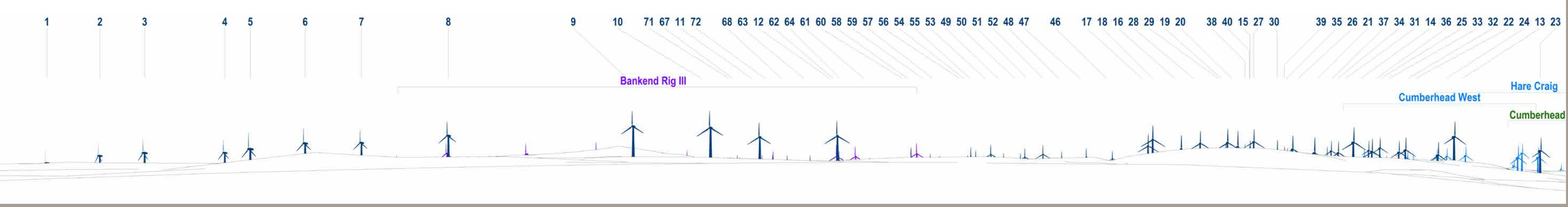


Cumulative bare-earth wireline view looking north from Victory Park showing the proposed development turbines (Scenario 1) in dark blue, consented but not yet built turbines in light blue, operational/under construction turbines in green, and Scoping stage turbines in purple.



Photomontage showing how the proposed development would look (Scenario 1), in combination with all other cumulative projects shown on the wireline above, when looking north from Victory Park, Muirkirk.

### Scenario 2 – 19 turbines closest to Muirkirk at 200 m to blade tip, remainder at 230 m to blade tip



Cumulative bare-earth wireline view looking north from Victory Park showing the proposed development turbines (Scenario 2) in dark blue, consented but not yet built turbines in light blue, operational/under construction turbines in green, and Scoping stage turbines in purple.



Photomontage showing how the proposed development would look (Scenario 2), in combination with all other cumulative projects shown on the wireline above, when looking north from Victory Park, Muirkirk.

### Muirkirk Townscape Assessment

It is proposed to include a Townscape Visual Assessment of Muirkirk as part of the EIA which assesses views from different parts of the village. The assessment will be supported by up to 5 additional photowires from different locations in Muirkirk as agreed with East Ayrshire Council.

## Layout Comparisons

As noted on the previous board, changes to the number and sizes of turbines will have an effect on the overall generation capacity of the proposed development. The amount of the community benefit and environmental funding available from the project is directly related to the amount of installed generation there is. The following table outlines the two scenarios presented above in the visualisations and the impact they have on the amount of funding generated.

Table 1 – Comparison of Total Benefits Package (Scenarios 1 and 2)

SCENARIO	TURBINE NUMBER	TIP HEIGHT	TURBINE CAPACITY	TOTAL GENERATION CAPACITY	ANNUAL COMMUNITY INVESTMENT FUND (MUIRKIRK AREA)	TOTAL COMMUNITY INVESTMENT FUND (MUIRKIRK AREA)	TOTAL COMMUNITY INVESTMENT FUND (ALL AREAS)	TOTAL SPA & SSSI RECOVERY AND MANAGEMENT FUND
1	72	230 m	7 MW	504 MW	£ 1.4 million	£ 57.4 million	£ 100.8 million	£ 40.3 million
2	19	200 m	5 MW	466 MW	£ 1.2 million	£ 49.8 million	£ 93.2 million	£ 37.3 million
	53	230 m	7MW					

The reduction in community benefit income which would arise from Scenario 2 would only affect the community benefit funding generated from the turbines proposed within the Muirkirk Community Council area.

A central part of the consultation process is to establish the views and opinions of the local communities and incorporate them into the design of the project with the aim of maximising generation capacity and the social and environmental benefits for the surrounding areas within acceptable limits. We would therefore be very grateful for your feedback today as to which scenario, if any, you would prefer should the proposed development progress.

NOTE: Please note that the images for Viewpoint 2 show a 120 degree horizontal angle of view. This angle of view has been used in order to illustrate the full extent of the scheme into a single image. It is acknowledged that a person's maximum horizontal field of view is around 90 degrees and so these images are more representative of the experience as you turn your head whilst standing at this location, rather than the view looking in a single direction. A 120 degree angle can also serve to reduce the apparent scale of the turbines in the view when compared to a smaller angle. It is nonetheless considered that this angle was the most helpful to illustrate for the purpose of these exhibitions. When the LVIA is prepared visualisations will however be produced in line with NatureScot guidance that will illustrate a 90 degree and 53.5 degree horizontal angle of view.