HOW THE TWO SCHEMES COMPARE

Project Components	Technical Details	
	The Consented Development	The Proposed Varied Development
Maximum Number of Turbines	17	13
Turbine Capacity	Up to 4.2 MW	Up to 7 MW
Maximum Tip Height	15x149.9 m and 2x125m	200 m
Indicative Rotor Diameter & Blade Length	117 m & 59 m	163 m & 82 m
Crane pads	Each wind turbine requires an area of hardstanding adjacent to the turbine which provides a stable base for the cranes to erect the structures.	
Battery Energy Storage System	An energy storage building housing batteries to store electricity generated by the wind turbines when it is not needed on the grid. The facility would have an approximate maximum output of 6 MW.	An energy storage building housing batteries to store electricity generated by the wind turbines when it is not needed on the grid The facility would have an approximate maximum output of 50 MW.
Substation and Control Room	An onsite substation and control room which would house switchgear and would connect the wind farm to the grid.	
Temporary Construction Compound	During the construction phase a temporary compound would be required to store construction equipment and machinery.	
Temporary Concrete Batching Plant	On-site concrete batching would result in a significant reduction in the number of vehicle movements on the local road network. The on-site batching plant is likely to be situated within or adjoining the construction compound.	
Borrow Pits	The stone required for new tracks, turbine bases and hardstanding areas would be sourced from up to two on-site borrow pits.	
Access Route and Tracks	Access to the site would be from the existing forestry track off the B729 between Muirdrochwood and Smittons. This will involve upgrading the existing site entrance junction and track.	
Grid Connection	The connection will be made into the proposed 132kV line from Lorg Wind Farm to Holm Hill (north of Carsphairn) which is being progressed by Scottish Power. This proposed line would run through the central part of the Shepherds' Rig site. There would be a short overhead connection between the wind farm substation and this proposed line.	
Total Maximum Output	76.2 MW	141 MW
Total Energy Generation per Annum	158 GWh per annum	257 GWh per annum **(60% INCREASE)**
Operational Life	30	40

BORALEX