

# New Coire Mashie 400kV Substation

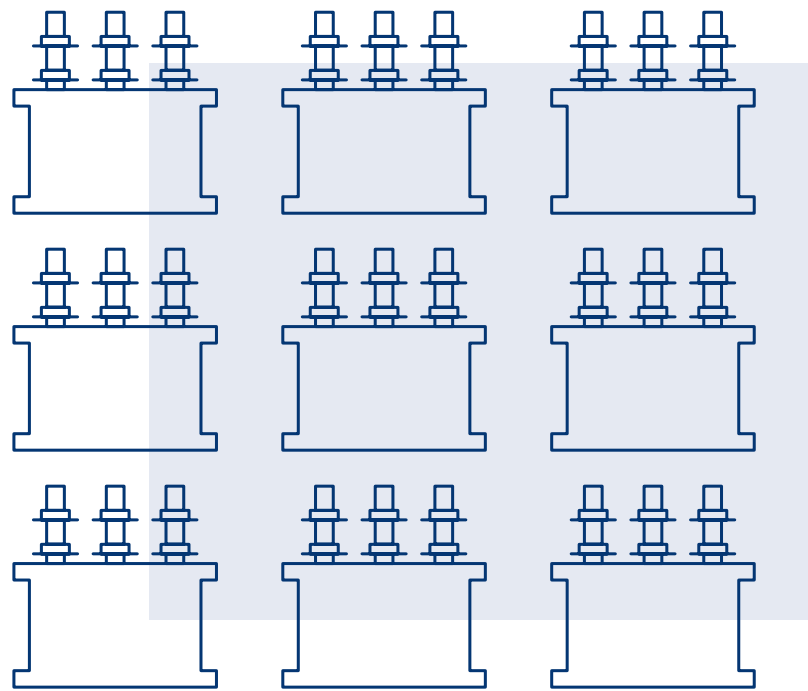
Red Amber Green (RAG) assessment - Engineering and Environmental

Category		Site 1	Site 2	Site 3	Site 4	Site 5
Engineering	Connectivity					
	Existing circuits/networks	A	G	R	A	G
	Future development possibilities	R	R	R	R	R
	Interface with SSEN Distribution and Generation	G	G	R	R	G
	DNO connection	A	R	R	R	R
	Footprint requirements					
	Technology	R	R	R	R	R
	Adjacent land use	A	A	A	A	A
	Space availability	A	A	A	A	R
	Hazards					
	Unique hazards	A	G	R	R	A
	Existing utilities	G	G	R	R	G
	Ground conditions					
	Topography	R	A	A	A	G
	Geology	A	R	R	R	R
	Environmental conditions					
	Elevation	R	R	R	R	R
	Salt pollution	G	G	G	G	G
	Flooding	A	G	G	R	A
	Carbon footprint	R	A	A	A	R
	SF <sub>6</sub>	G	G	G	G	G
	Contaminated land	G	G	G	G	G
	Noise	R	R	A	A	R
	Construction access					
	Substation access road (from public road)	A	A	R	R	R
	Transformer delivery route	A	A	A	A	R
	Operation and maintenance					
	Access	A	A	R	R	R

Category		Site 1	Site 2	Site 3	Site 4	Site 5
Environmental	Natural heritage					
	Designations	A	A	A	A	R
	Protected species	A	A	A	A	R
	Habitats	A	A	R	R	A
	Ornithology	A	G	R	R	G
	Hydrology/Geology	A	A	A	A	A
	Cultural heritage					
	Designations	A	A	G	A	A
	Cultural heritage assets	G	R	G	G	G
	Landscape and visual					
	Designation	A	A	R	R	R
	Landscape character	A	G	R	R	R
	Visual	G	A	A	A	R
	Land use					
	Agriculture	G	G	G	G	G
	Woodland/forestry	A	R	G	G	R
	Recreation	A	A	A	A	A
	Planning					
	Policy	A	A	R	R	R
	Proposals	G	G	R	A	G
	Cost					
	Capital	G	G	G	G	G
	Operational	G	G	G	G	G

# New Earba Underground Cable

Red Amber Green (RAG) assessment - Engineering and Environmental



Category		Route Opt. 1	Route Opt. 2	Route Opt. 3	Route Opt. 4	Route Opt. A	Route Opt. B1	Route Opt. B2	Route Opt. B3	Route Opt. C	Route Opt. D	Route Opt. E	Route Opt. F	Route Opt. G
Engineering	Infrastructure crossings													
	Major crossings (132V, 275KV, Rail, 200+m wide river, navigable canal gas or hydro pipeline)	G	G	R	R	A	R	R	R	A	A	R	R	R
	Road crossings	G	R	R	R	R	R	R	G	A	A	G	R	G
	Environmental Design													
	Elevation	R	R	R	R	R	R	R	R	R	R	R	R	R
	Atmospheric Pollution	G	G	G	G	G	G	G	G	G	G	G	G	G
	Contaminated Land	A	A	A	A	A	A	A	A	A	A	A	A	A
	Flooding	G	G	A	G	G	G	G	G	G	G	G	R	G
	Ground Conditions													
	Terrain	R	R	R	R	R	R	R	R	R	R	R	R	R
	Rock	R	R	R	R	R	R	R	R	R	R	R	R	R
	Peat	R	R	R	R	A	R	R	A	A	A	A	R	R
	Construction Maintenance													
	Access	G	G	G	G	G	G	G	G	G	G	G	G	G
	Angles of Deviation	G	A	R	A	G	A	G	G	A	G	G	A	A
	Cable Haul Road	A	R	R	R	G	R	A	G	R	R	G	R	R
	Proximity													
	Windfarms	G	G	G	G	G	G	G	G	G	G	G	G	G
	Communication Masts	G	G	G	G	G	G	G	G	G	G	G	G	G
	Urban Environments	G	G	G	G	G	G	G	G	A	G	G	G	G
	Metallic Pipelines	G	G	A	G	G	G	G	G	G	G	G	A	A
	Design													
	Reactive Compensation	G	A	R	A	G	A	G	A	A	G	A	A	R
	Joint Bays	A	R	R	R	G	A	A	G	A	R	G	R	R

Category		Route Opt. 1	Route Opt. 2	Route Opt. 3	Route Opt. 4	Route Opt. A	Route Opt. B1	Route Opt. B2	Route Opt. B3	Route Opt. C	Route Opt. D	Route Opt. E	Route Opt. F	Route Opt. G
Environmental	Natural Heritage													
	Designations	A	A	R	A	A	A	A	A	G	G	G	A	R
	Protected Species	A	A	R	A	A	A	A	A	A	A	A	A	A
	Habitats	A	A	R	R	A	R	A	A	A	A	R	R	R
	Ornithology	A	A	R	R	G	R	A	G	G	G	G	A	A
	Geology, Hydrology & Hydrogeology	A	A	A	A	A	A	A	A	A	A	A	A	A
	Cultural Heritage													
	Designations	G	G	G	G	G	G	G	G	G	G	G	G	G
	Cultural Heritage Assets	G	G	A	R*	G	R*	R*	A	R*	G	R	G	G
	People													
	Proximity to Dwellings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Landscape and Visual													
	Designations	A	A	A	R	A	A	A	G	G	R	G	A	A
	Character	A	A	A	R	A	G	A	G	G	R	G	A	G
	Visual	G	G	G	G	G	G	A	G	G	A	G	G	G
	Land Use													
	Agriculture	G	G	G	G	G	G	G	G	G	G	G	G	G
	Forestry	A	A	R	A	A	A	A	A	A	A	A	G	A
	Recreation	G	G	G	G	G	G	G	G	G	G	G	G	G
	Planning													
	Policy	A	A	R	R	A	R	R*	A	R*	R	R	R	R
	Proposals	A	A	A	A	A	G	G	A	G	G	G	A	A