Koeberg - EIA process

Ecology

Significance Rating Table

Operational Phase

Alternative 1

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or -ve)	Confidence
Soil erosion and associated degradation of ecosystems	**Nature of impact:**	Bare and disturbed areas will be highly vulnerable to wind erosion due to the strong winds the area experiences							
	with	1	2	2	3	**15**	**Low**	-	Medium
	without	1	3	4	4	**32**	**Medium**	-	Medium
	degree to which impact can be reversed:	Moderate - Provided that large amounts of wind erosion does not occur, this impact can be arrested and reversed.							
	degree of impact on irreplaceable resources:	Low - As the extent of the development is low, significant loss of irreplaceable resources is unlikely							
Alien Plant Invasion	**Nature of impact:**	Alien plant species are likely to dominate disturbed areas following construction							
	with	1	2	2	3	**15**	**Low**	-	High
	without	1	4	4	4	**36**	**Medium**	-	High
	degree to which impact can be reversed:	Moderate to High depending on the severity of invasion							
	degree of impact on irreplaceable resources:	Low as the affected area is already disturbed							
	Nature of impact:								
	with								
	without								
	degree to which impact can be reversed:								
	degree of impact on irreplaceable resources:								

Alternative 4

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or -ve)	Confidence
Soil erosion and associated degradation of ecosystems	**Nature of impact:**	Bare and disturbed areas will be highly vulnerable to wind erosion due to the strong winds the area experiences							
	with	1	2	2	3	**15**	**Low**	-	Medium
	without	1	3	4	4	**32**	**Medium**	-	Medium
	degree to which impact can be reversed:	Moderate - Provided that large amounts of erosion does not occur, this impact can be arrested and reversed.							
	degree of impact on irreplaceable resources:	Low - As the site is already degraded significant loss of irreplaceable resources is unlikely							
Alien Plant Invasion	**Nature of impact:**	Alien plant species are highly likely to dominate disturbed areas following construction							
	with	1	2	2	3	**15**	**Low**	-	High
	without	1	4	4	4	**36**	**Medium**	-	High
	degree to which impact can be reversed:	Moderate to High depending on the severity of invasion							
	degree of impact on irreplaceable resources:	Low as the affected area is already disturbed							
	Nature of impact:								
	with								
	without								
	degree to which impact can be reversed:								
	degree of impact on irreplaceable resources:								

Transmission Line - Alternative 4

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)		Status (+ve or -ve)	Confidence
	Nature of impact:	Avifaunal impacts due to operation and presence of the power line							
	with	1	5	2	3	**24**	**Low**	-	Medium
	without	2	5	6	4	**52**	**Medium**	-	Medium

Avifaunal Impacts related to power line operation & maintenance	**degree to which impact can be reversed:**	Medium- with mitigation irreverisble changes are unlikely							
	degree of impact on irreplaceable resources:	With mitigation, impact on irreplaceable reources would be low							
	Nature of impact:								
	with								
	without								
	degree to which impact can be reversed:								
	degree of impact on irreplaceable resources:								