Collision with earth wire = negative impact Habitat destruction = negative impact Disturbance = negative impact Nesting = positive impact

Note: Electrocution of birds is highly unlikely and is not considered an impact on the proposed tower structure. On the proposed tower structure it should not be possible for birds to impact on quality of electrical supply through nesting, bird pollution and bird streamers as it is not possible for them to perch/nest above the conductors which are suspended in mid air. However it will be necessary to occasionally use strain type towers (notably at river crossings – where birds are likely to be relatively abundant) which are likely to be of the self supporting type with a "cross boat" from which conductors are suspended. Birds could perch/nest above conductors on these towers – since these towers will be in the minority – this issue is not discussed on a per species basis in these tables.

Species	Nature of Impact, general susceptibility, probability	Scale and location	Significance without mitigation	Significance with mitigation	Confidence
Water birds:					
Black-necked Grebe	Most of these species are	These species are found	Collision will be	Low	High
Dabchick	generally highly vulnerable	in close association with	medium		
White-breasted Cormorant	to collision with earth wires	water sources, of which			
Grey Heron	on account of their size	there are very few in this			
Black-headed Heron	and wing loading.	study area. Water			
Little Egret		courses will be			
Cattle Egret	Whilst all bird species are	particularly important as			
Great White Egret	affected to some extent by	river valleys and			
Yellow-billed Egret	habitat destruction and	associated habitat form			
Little Bittern	disturbance, most of these	important flight paths for			
Hamerkop	species are relatively	many species.			
Egyptian Goose	adaptable and tolerant of				
SA Shelduck	these impacts.				
African Black Duck					
Southern Pochard	Several of these species				
Yellow-billed Duck	eg herons would typically				
Cape Teal	impact on quality of				
Red-billed Teal	electrical supply through				
Cape Shoveller	roosting on towers but on				
Macoa Duck	the proposed tower				
Moorhen	structure this is not				

Red-knobbed Coot Spur-winged Goose	possible.				
Reed Cormorant					
Darter					
Purple Heron					
Large & medium raptors:					
Black Eagle Booted Eagle Black-chested Snake Eagle African Fish Eagle Steppe Buzzard Jackal Buzzard Yellow-billed Kite	These species are all relatively significantly affected by disturbance and habitat destruction. In particular if any of these species are breeding near to the proposed alignment, disturbance of their breeding during construction activities could be significant.  The eagles are not likely to nest in the "columns" of this proposed tower structure, however in the absence of any other potential nest sites it is possible.  Impact on quality of supply through bird pollution and bird streamers is not possible on the proposed	Most of these species can be found almost anywhere along this proposed route. On the northern section of the proposed line, where it runs adjacent to the existing Gromis-Oranjemund line, several raptor nests were seen on the existing line, birds breeding in these nests would almost certainly be disturbed by construction of the new line.	Although none of these species are classified as endangered, all large raptors are relatively rare and should be protected from any unnatural impacts.  Disturbance whilst breeding near the alignment is rated as medium	If the suggested mitigation is implemented correctly – low	High/medium
Ibises & spoonbill: African Spoonbill	structure.  These species are	These species are	Collision will be	Low	High
Hadeda Ibis	relatively vulnerable to	generally found	medium	LOW	1 11911
Sacred Ibis	collision.	reasonably close to			
Glossy Ibis		water & arable lands.			
	They are relatively tolerant				

	of habitat destruction and disturbance.  Impact on quality of supply through bird pollution and bird streamers is not possible on the proposed structure				
Corvids: Pied Crow Black Crow White-necked Raven	These species are very tolerant of habitat destruction and disturbance – and often exist in the most highly degraded, disturbed areas.  These species will almost undoubtedly nest in the "columns" of the proposed tower structure, however this will have no impact on quality of supply.	These birds could be found anywhere along the proposed route.	All impacts on these species are of low significance.	Low	High
Large terrestrial birds: Helmeted Guineafowl Karoo Korhaan Black Korhaan	These species, particularly the korhaans are vulnerable to collision with earth wires.  Habitat destruction and disturbance is not likely to impact significantly on them.	The korhaans will occur almost anywhere in this study area, guineafowl are usually closely associated with water.	Collision of the korhaans is rated as medium.	Low	Medium