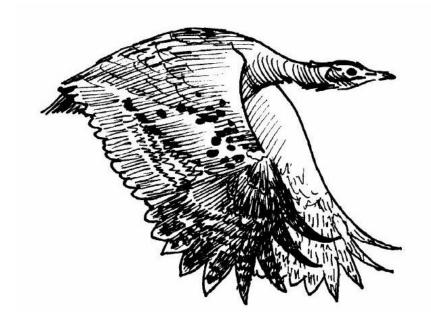
Monitoring collisions of large birds with power lines in Namibia



John Pallett



NamPower - Namibia Nature Foundation



Strategic Partnership





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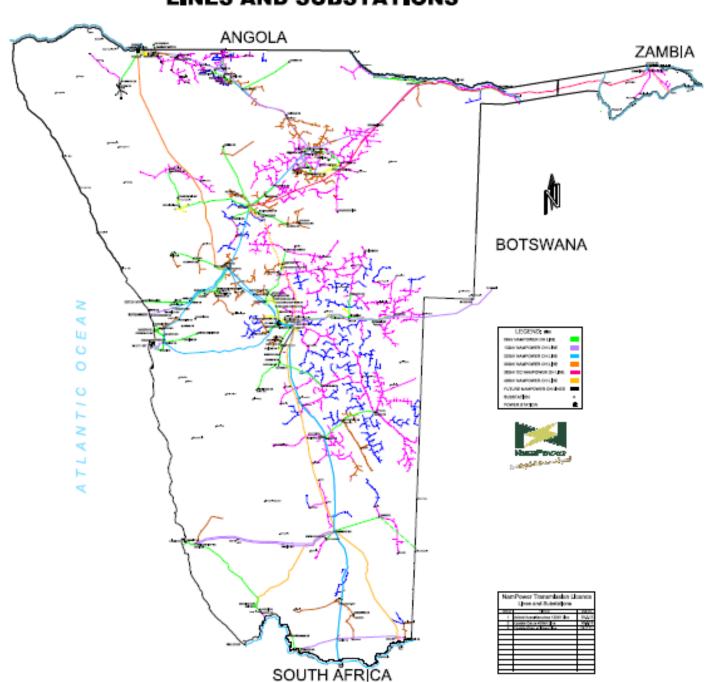


(Financed by the European Investment Bank)

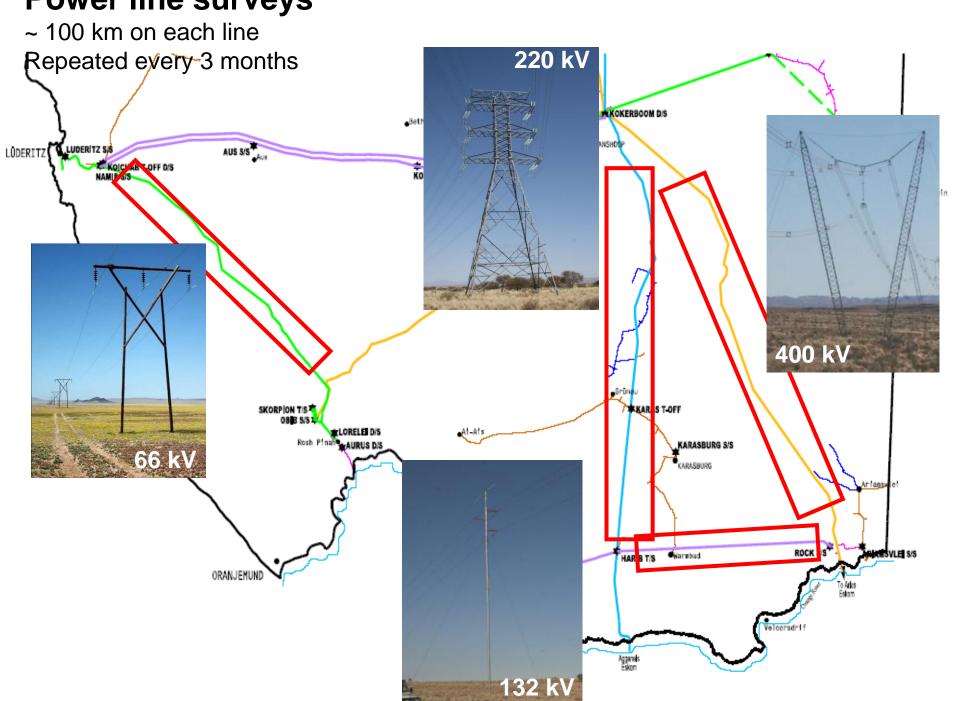
 Need evidence of collisions to motivate spending money on mitigation

 Need to test various designs and ideas to achieve optimum mitigation

TRANSMISSION AND GENERATION LINES AND SUBSTATIONS



Power line surveys





15 July 2012 Kori Bustard 400 kV Keetmanshoop area S26 44.668 E18 48.870

2 October 2012 Ludwig's Bustard 66 kV Luderitz area

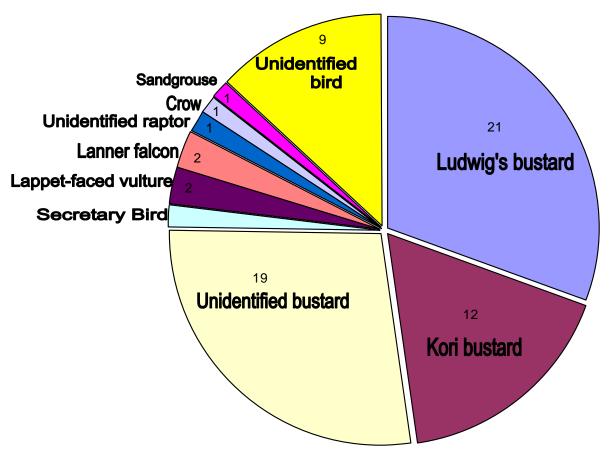




5 October 2012 Unidentified bustard 132kV Warmbad area S28 26.650 E18 31.093



July 2012 power line survey



70 collision fatalities 380 km surveyed

Other species being impacted:

Various korhaans Flamingos

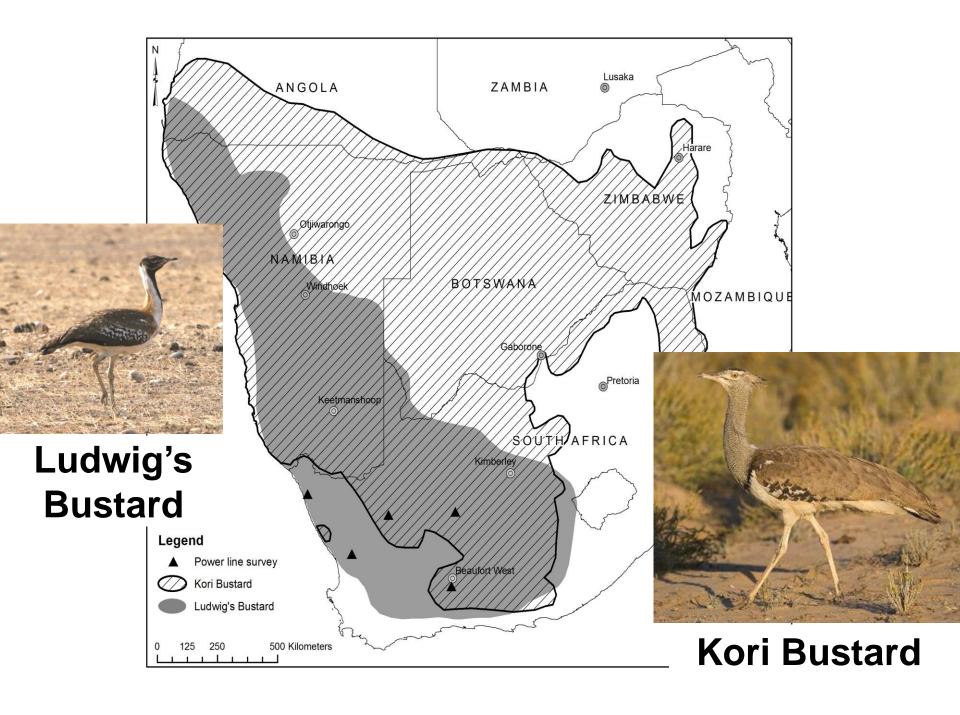


Comparable with situation in Karoo

Estimate 1 large bird per km per year

Clearly a threat to the Ludwig's population

Ludwig's bustard uplisted to Vulnerable.



Mitigation

Very difficult to find effective solution

 Likely to focus on making lines more visible with flappers, but birds fly 'blind'

Best (only?) opportunity to mitigate: during construction



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