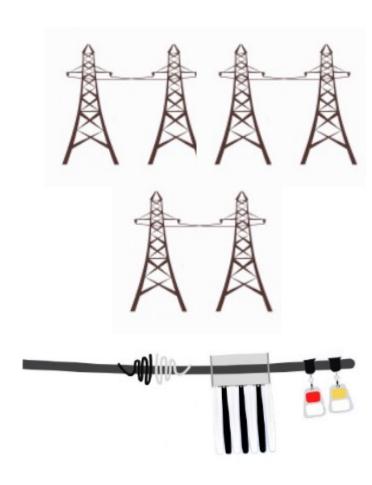


NATURE CONSERVATION IN GERMANY



- Nature conservation and especially Bird protection in selected areas is a requirement for the approval of construction projects in Germany
- Amprion made a research to determine in which high risk areas Bird collision can happen due to existing powerlines
- Solution :
 - Bird flight diverters
- Problem:
 - No European/German standards for technical testing
 - ➤ No sufficient an independent testing of effectiveness (collision reduction)
 - > Due to this no comprehensive standard of bird flight diverters in Germany



RIBE-"ZEBRA"-DIVERTERS



- Material:
 - PVC Flappers mounted on stainless-steel wire
 - Alloy clamps with helical rods for installation on the ground wire
- Can be installed on the ground wire by Helicopter
- Moving flappers
- Contrast (Black and White)
- Wear of PVC-Flappers mounted on the stainless-steel wire
- No wear in between the ground wire / clamp
- So far, no harm of the PVC by UV-light

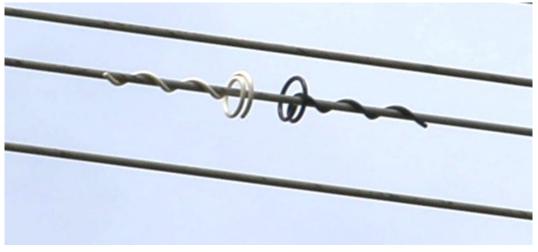




SMALL SPIRAL FLIGHT DIVERTER



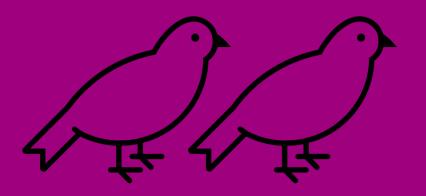
- Material = PVC
- Can be installed on the ground wire during construction or with helicopter
- Do not move
- Contrast (Black and White)
- No wear in between diverter and ground wire
- PVC gets harmed by UV-light







VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!



THANK YOU FOR YOUR ATTENTION!