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MAVIR Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság

MAVIR Hungarian Transmission System Operator Company Ltd.





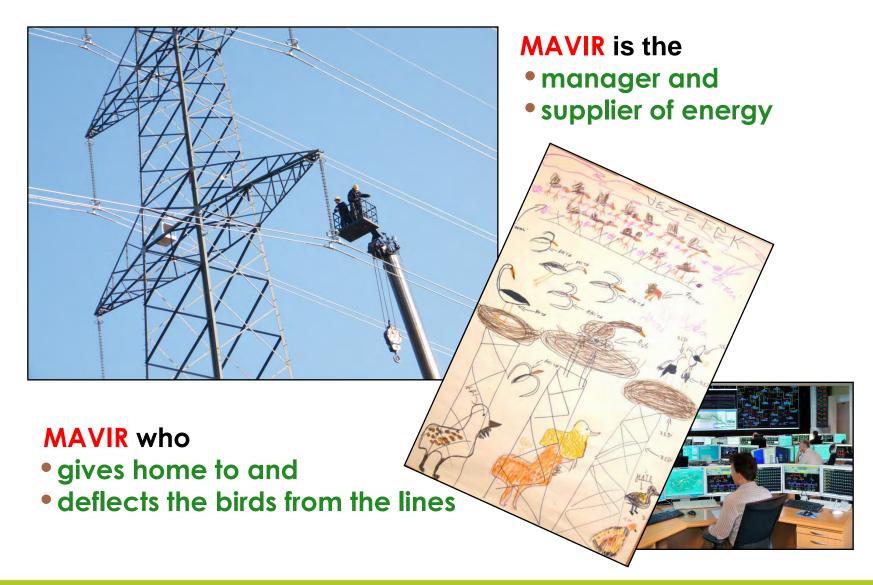
















# **Great bustard** conservation program

...so that the largebodied birds detect and avoid the lines.

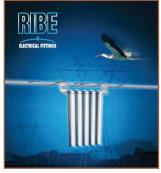




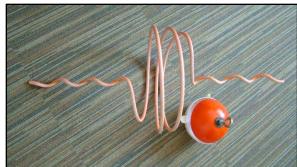


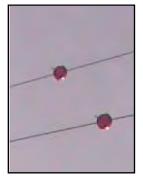














What do they have to notice?
The deflectors from the perspective of birds











How are they operated?
Deflectors from the operator's perspective

Costs of devices and their installation

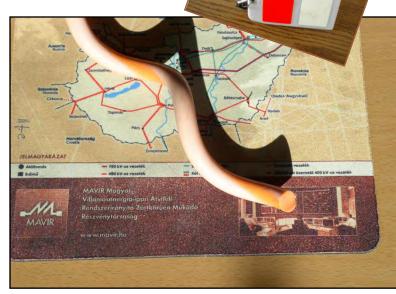
installation

Wear-out of devices

And other problems









| Fire-fly and KS bird deflectors installed in 2011 |                         |                                  |  |  |  |
|---|-------------------------|----------------------------------|--|--|--|
| Name of transmission line                         | Number of<br>Deflectors | Function of<br>Transmission line |  |  |  |
| Country border -Győr I-<br>II 220kV trans. line   | 430<br>change           | Current and groundwire           |  |  |  |
| Göd-Léva<br>400kV trans. Line                     | 30<br>change            | Current and groundwire           |  |  |  |
| Sajószöged-Szolnok<br>220kV trans. Line           | 100<br>+50              | Groundwire and towers            |  |  |  |
| Albertirsa-Martonvásár<br>400kV trans. line       | 340                     | Groundwire<br>during renewal     |  |  |  |

# The installation of bird deflectors also continued in 2011



Their installation with:
"Trolley"
"Ladder"
Aerial crane



















They are not afraid of high voltage
The nest boxes are safe
not only for them,

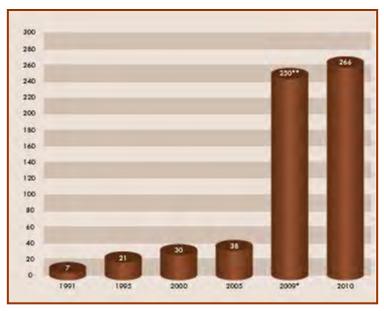
but for us too!
There are more
Sakers living
on the towers
than in the nature











The first nests were placed on the towers in 1991.

Within the LIFE Program a large number of hatching boxes were placed between 2007-2009. MAVIR had 395 hatching boxes in 2010.

This year 21 new boxes are being placed on the towers.

















| Hatching boxes placed in 2011  |                          |  |  |  |
|--|--------------------------|--|--|--|
| Name of transmission line  | Number of hatching boxes |  |  |  |
| During the extension Albertirsa-Martonvásár 400kV<br>transmission line | 8                        |  |  |  |
| During the extension of Martonvásár-Győr 400kV<br>transmission line    | 5+8                      |  |  |  |









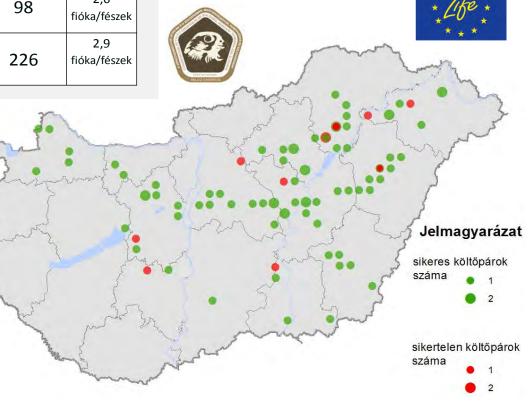
| ÉV   | Fészket<br>foglaló<br>párok<br>száma | Sikertelen<br>költések<br>száma | Sikeres<br>költőpárok<br>száma | Kirepült<br>fiatalok<br>száma | Átlagos<br>költési<br>siker |
|------|--------------------------------------|---------------------------------|--------------------------------|-------------------------------|-----------------------------|
| 2009 | 85                                   | 15                              | 70                             | 227                           | 3,2<br>fióka/ fészek        |
| 2010 | 91                                   | 54                              | 37                             | 98                            | 2,6<br>fióka/fészek         |
| 2011 | 88                                   | 11                              | 77                             | 226                           | 2,9<br>fióka/fészek         |

Hatching results of Saker Falcon pairs nesting on the high voltage towers of MAVIR in 2009-2011

Saker Falcon pairs nesting in 2011

 Number of successful hatching pairs

 Number of unsuccessful hatching pairs









After unsuccessful hatching last year, she brought up four nestlings this year. This year 88 Saker Falcon pairs occupied nests on the towers and 226 young ones left the nests.







".. Is responsible for it,



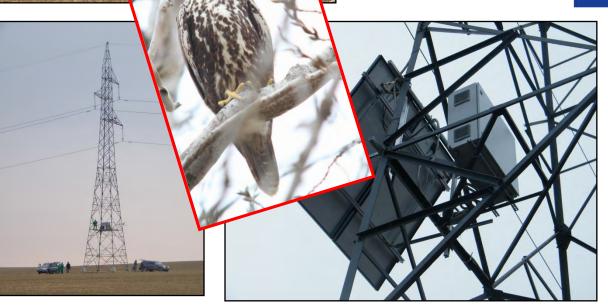


Within LIFE + program MAVIR also took a role in observing the birds with camera.

We expected Saker Falcons, but Kestrel moved in the nest.













During the first hatching the male Kestrel has disappeared, but the hen could find a new pair and brought up two nestlings in MAVIR's nest.

The professionals and fans could observe the life of the birds. MAVIR's website got 1500 hits because of the birds.

The Kestrel reality show was "liked" by 600 on the Facebook.











There is a day when MAVIR, MME and Pro Vértes foundation allow the visitors close to its protected ones. Joint bird observation and Kestrel and Saker Falcon ringing in the presence of media. The nestlings are adopted by the namegivers.

















Night of the Museums,
Exhibitions,
National Heritage Days
Occasions to give information
on our environmental activities

...and every kid wants to be a bird protector









The children could familiarize themselves with MAVIR's environmental activities through interactive environmental protection program and adventure tour. The program can get to the families and schools.















"You are from MAVIR who protect the birds? Please help me, because a bird flew in our house.... "... When people say this something has changed about which we have to be happy!







Thank you for your attention