

#### 50Hertz's pilot project activities on electric and magnetic fields

Collaboration on an emotionally sensitive topic



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Dr. Dirk Manthey





#### pilot project for BESTGRID The Bertikow-Pasewalk 380 kV overhead line: a



- voltage transmission line 50Hertz is constructing a 30 km long new high and Pasewalk (Mecklenburg-Western Pomerania), Between the substations of Bertikow (Brandenburg)
- discussions have been held with stakeholders since in Prenzlau and Pasewalk in March 2014. In order to involve the public at an early stage December 2013 and two workshops were organised
- September 2014. planning, as stipulated in the Grid Expansion Acceleration Act (NABEG) took place on 24 The official project conference for the federal sector
- dialogue campaign should tackle remaining the BESTGRID initiative, a second information and In the wake of the project conference and as part of

questions



#### credibility The challenge: EMF as a touchstone for trust and

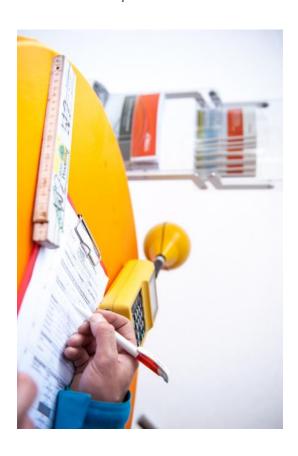


- The subject of electromagnetic fields or EMF is highly technical and reasonably unknown. As a result, it is a source of uncertainty.
- The assumed health risk can rouse feelings of anxiety and powerlessness.
- A lack of knowledge about EMF can contribute to opposition against grid development projects.
- Ignorance of EMF causes avoidance reactions and leads to regulations containing technical restrictions, such as the obligation of underground cables, or more extensive precautions (e.g. distance limit values).
- Logically, a residual risk will always be suspected when it comes to EMF. That is why the credibility of how the subject is treated is a deciding factor.



## information and action The mission: to inspire trust and credibility through

- In this regard, it is important that the information material is clear and convincing.
- Information alone can hardly ease the emotional aspect of insecurity but can offer support nonetheless.
- Only through an active approach can we achieve trust in our actions and in our information and thus overcome feelings of fear and powerlessness.



The perspectives of project communication:

ntormation. This builds confidence and is helps communicate and situate necessary Trustworthy information on EMF should mainly be provided through interaction.



#### convincing than a text on limit values The principle: personal experience is more

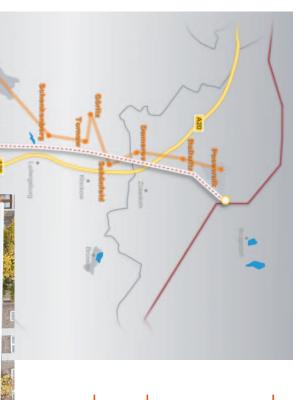


50Hertz used the following questions as a guideline for the pilot project:

- How can we make the subject of EMF more transparent for those interested?
- How can we help interested individuals with limited background knowledge put technical facts into perspective?
- Can personal contact cancel out the distrust and prejudice harboured against transmission system operators?
- Which forms of cooperation with independent institutes are meaningful and feasible to impress the reliability of the information on the citizens?
- How can we give the facts the right media treatment so that they are readily available and easily accessible?



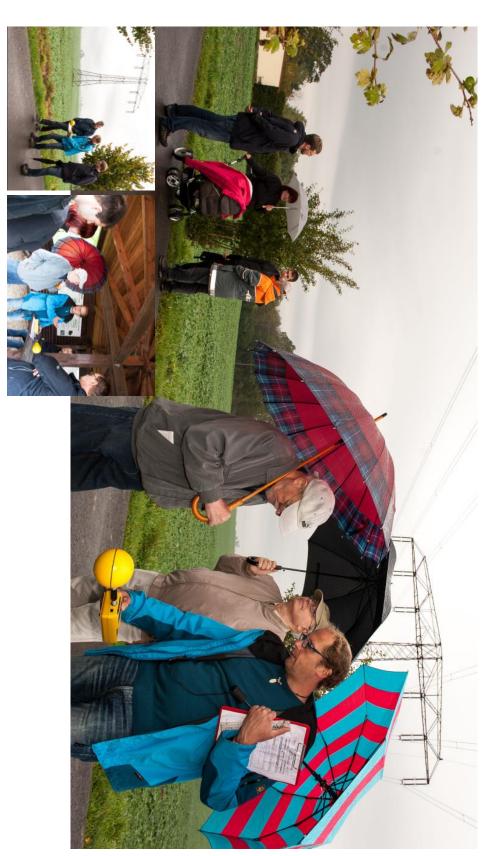
### 11 locations over the course of 7 days In practice: mobile office's information tour halts at



- Between 9 and 17 October 2014, the mobile office informed the general public on the state of the progress planning: procedures, route corridors, technological aspects (overhead lines)
- EMF measurements were carried out underneath the current power line.
- We had the help of the following partners:
- the University of Duisburg-Essen (measuring the fields)
- TU Berlin (study on communications approach)

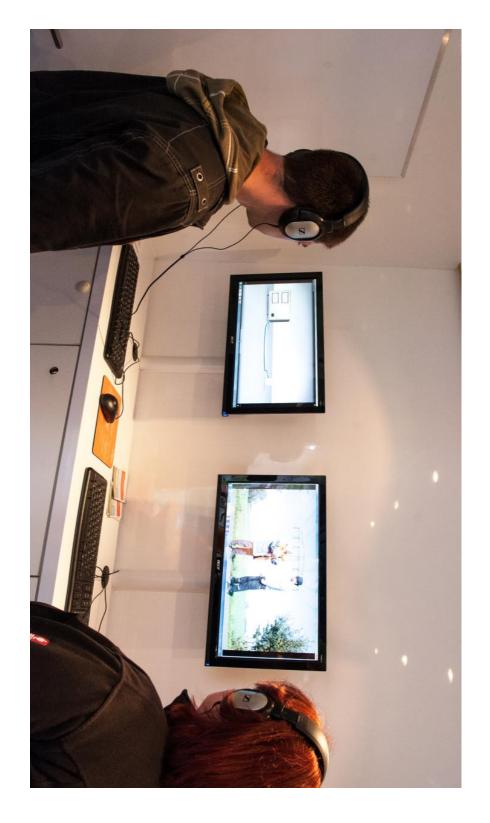


#### In practice: measurements of the electric and magnetic field underneath the current power line



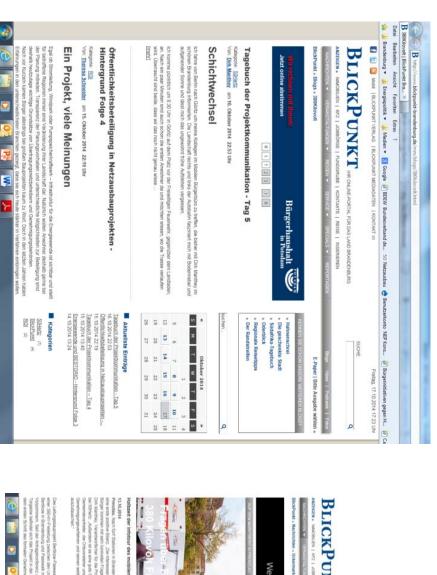


#### In practice: production of a short movie with background information for remote locations





#### newspaper in the form of a blog In practice: media cooperation with a local







# First conclusion: residents gladly take up the offer

- The contact with important stakeholders was established during the information tour.
- The media made regular reports on our activities (disseminator function).
- One in two visitors was interested in EMF.
- Residents were more than happy to take us up on our offer to perform local measurements.
- In general, visitors to the mobile office stayed for a very long time.
- The talks were always to the point, the tone was friendly and discussion partners showed interest.
- The blog received only limited attention.
- The experiences should be used in a brochure on the EMF theme.











## Backup: general BESTGRID chart



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- tested in the scope of the grid development project for from the EU, new public participation methods are Within the BESTGRID project, which receives support Pasewalk. the 380 kV overhead line between Bertikow and
- experts during the measuring of electric and magnetic fields in the vicinity of the existing line. Residents and other interested parties accompany
- feared effects on health be answered properly? The central question is: how can questions about the
- attending 11 tour stops. during an information tour with a mobile office Between 9 and 17 October 2014, this was tested
- Duration of the pilot project: April 2013 until April 2015



# Thank you very much for your attention.

Dr. Dirk Manthey

**50Hertz Transmission GmbH** 

Eichenstraße 3A

12435 Berlin

030 - 5150 - 3419

dirk.manthey@50hertz.com

www.50hertz.com

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