

Panel Discussion:

Realizing large scale infrastructure projects

Content:

- 1. Who are we**
- 2. What do we want ? - Our targets**
- 3. What have we done ?**
- 4. Examples for getting acceptance for grids in earth**
 - in cost comparisons**
 - in combination adjacent to the Autobahn including noise-protection wall**
 - in emission figures**
 - in introduction of new technologies**
- 5. Outlook**



Who are we?

Foundation:	2007
Active members:	ca. 100 persons
Leadership:	ca. 10 persons
Speaker:	Reinhard Brinckmann
Press affairs:	Peter Gosslar
Media + Internet:	Wolfgang Schulze
Region:	Centre of Germany
Intention:	basically democratic peaceful, no violence politically neutral and correct open to everyone and critical
Cooperation:	Committee High Voltage in Niedersachsen Member of Speakers' Council

Stromnetze in Deutschland

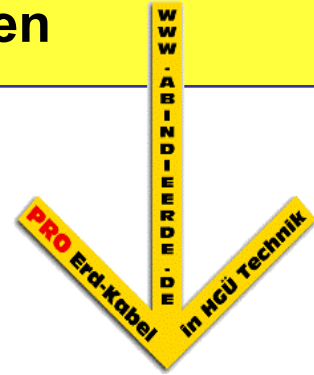
Höchstspannungsebenen

— bestehend
- - - geplant



Quelle: Umweltbundesamt, Stand Jan. 2011, dens





What do we want?

We are not fighting against electrical power grids.

We are presenting alternatives: instead of high masts, we only want grids in the earth.

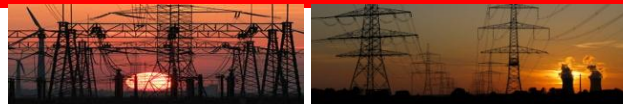
We call for an innovative transmission system in Direct Current (DC).

We don't want any kind of partial sectors of earthgrids

but we would be satisfied when the total distance Wahle to Mecklar (about 200 km) would be placed in earth as a pilotproject

We are claiming and appealing to all politicians in all parlements to make human politic for all citizens again.

The last change of the law in July this year was not enough and it was not helpful for achieving our targets.



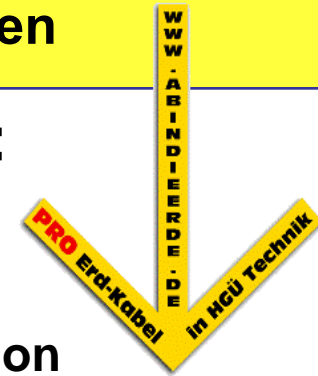
Bürgerinitiative „PRO ERDKABEL“ Bad Gandersheim/Kreiensen

What have we done in the past?

WWW-ABINDIERTERDE-DE

PRO Erd-Kabel
in NGU Technik





Acceptance through changing technical arguments: Example: DC- (HGÜ) overlay net in Europe

Starting point
since 1900:

energy production, transit and transportation
is only possible in AC-technology
Argument: no other way and no better way for all
market participants in stability and supply-safeness

Yesterday:

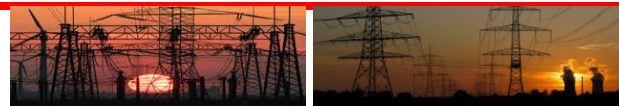
no experience and no practice in DC-technology
but: ABB's project „South West Link“ in Sweden with
179 km cable and 62 km traditional grids and
Siemens connection between France and Spain

Today's discussion:

Germany and Europe needs an overlay net in DC (?)
4 main lines north/south from Hamburg-Munich, and
also in east/west direction Magdeburg-Frankfurt

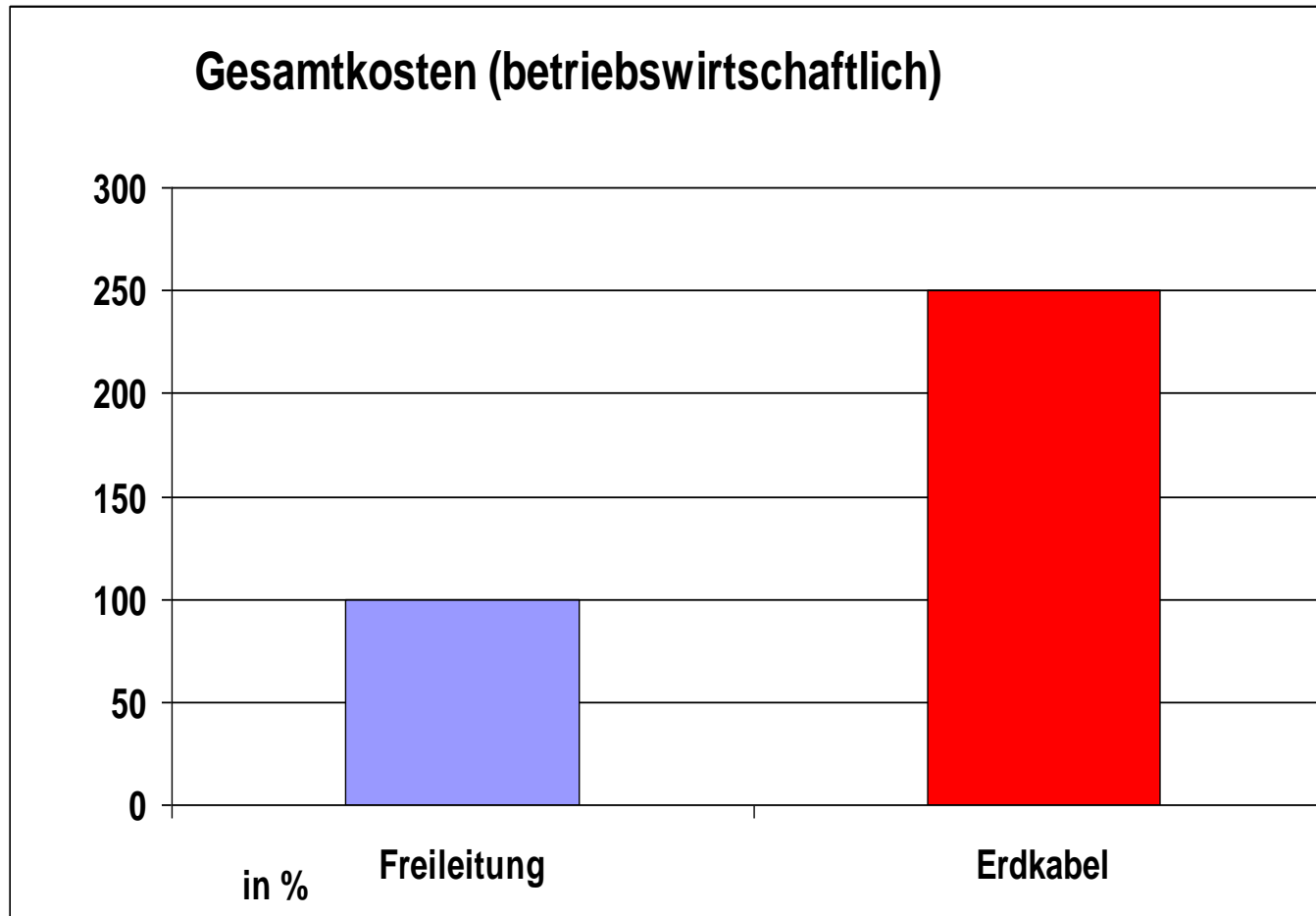
Bundesnetzagentur:

actually new studies in demand and production,
Is this the end of dena I and dena II ?

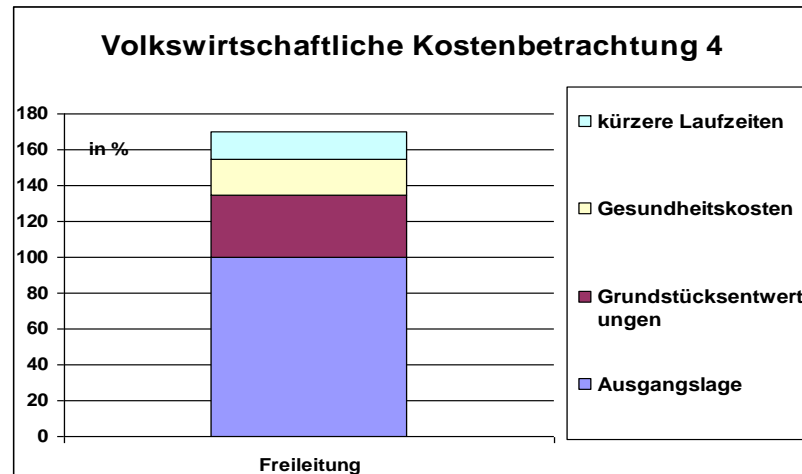
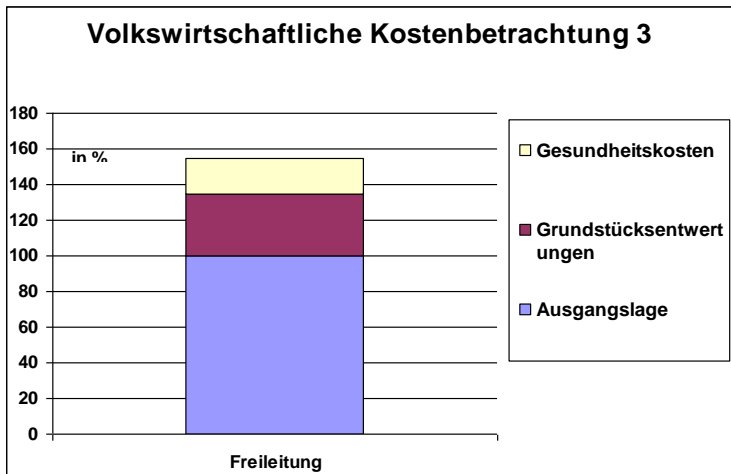
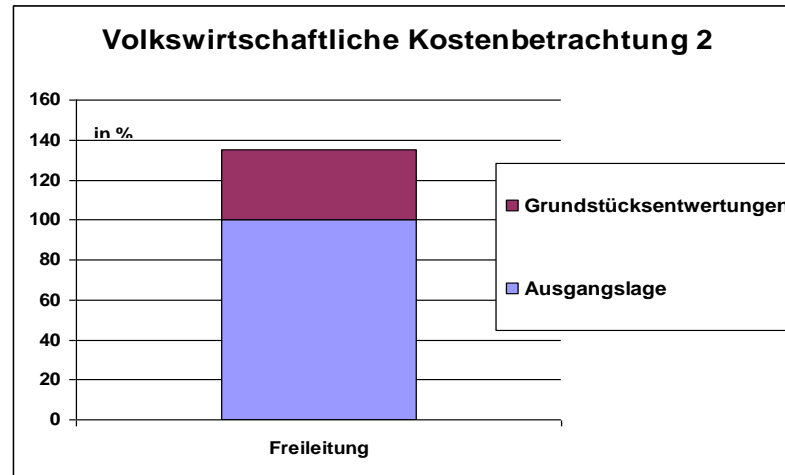
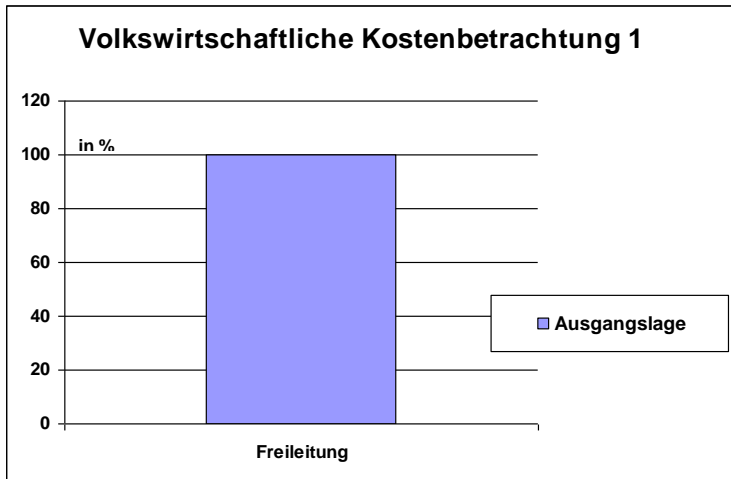


Acceptance in cost comparison

Example: cost calculation

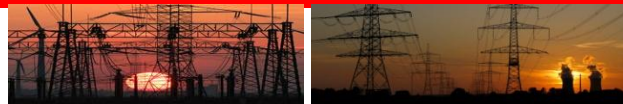
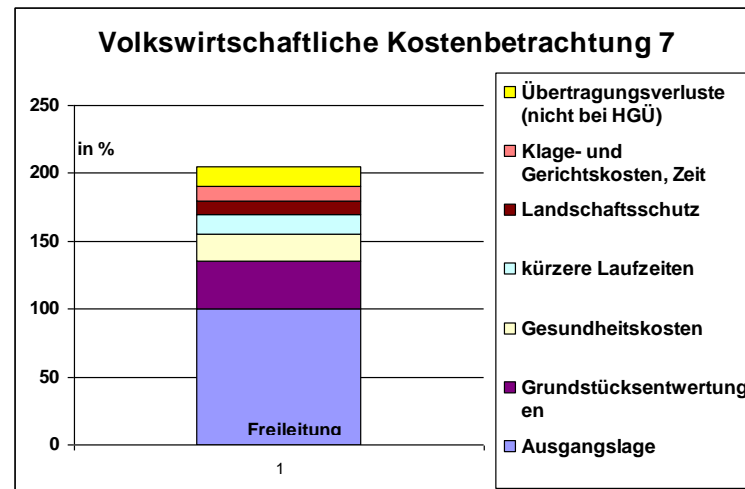
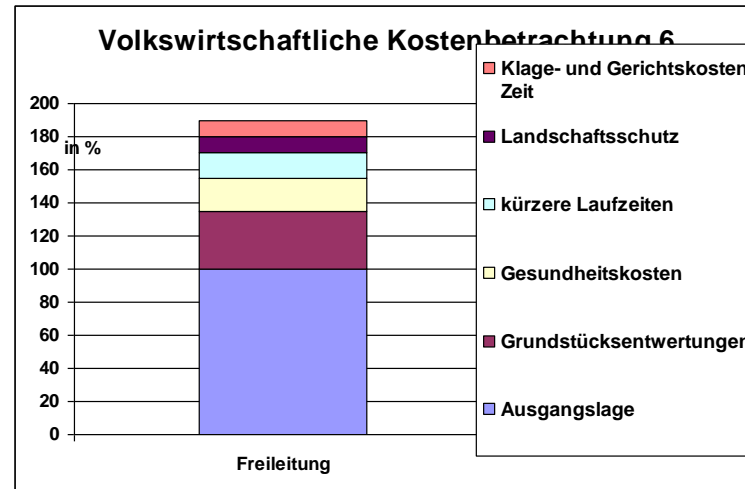
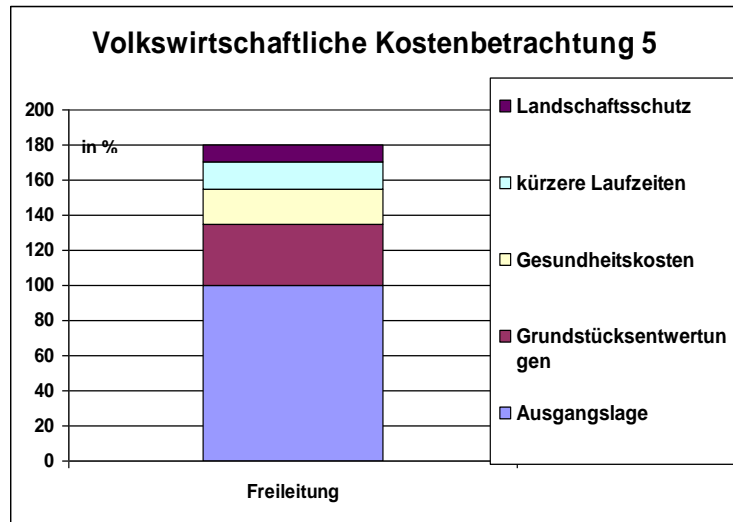


Acceptance in cost comparison Example: cost calculation





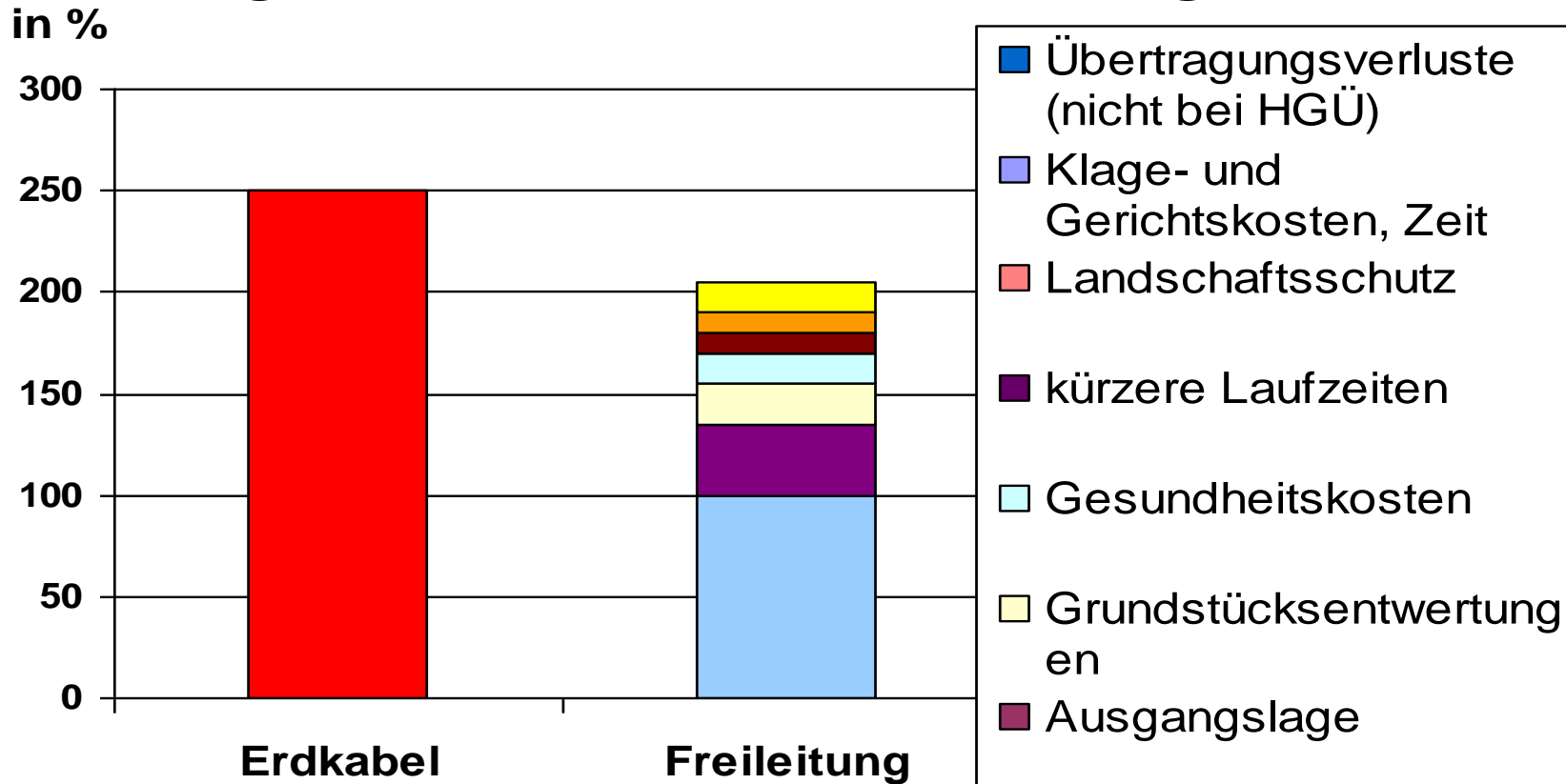
Acceptance in cost comparison Example: cost calculation



Acceptance in cost comparison

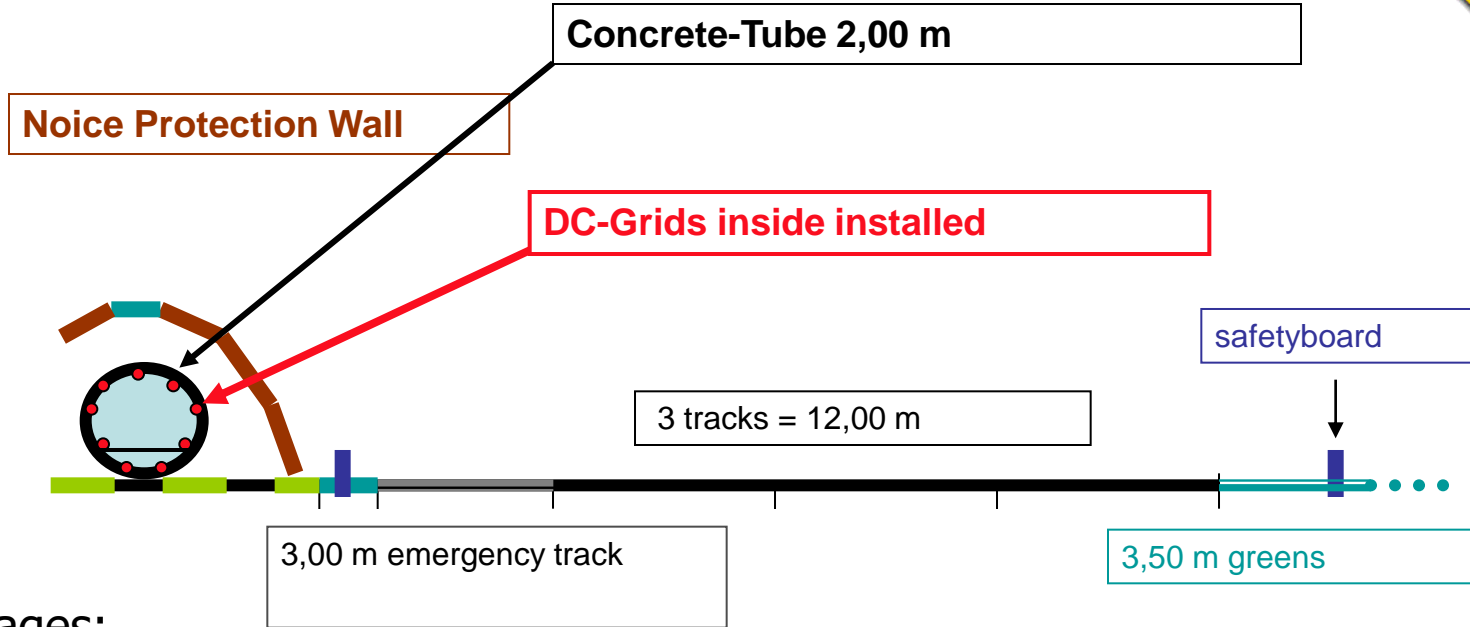
Example: cost calculation

Ergebnis des Volkswirt.Kostenvergleichs



Acceptance in infrastructure

Example: DC-Power-grids next to the Autobahn



Advantages:

1. technical:

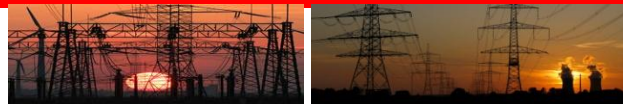
übliche Baupraxis bei Erdarbeiten und Rohrverlegung
gute Begehrbarkeit innerhalb der Rohre für Inspektionen
leichte Installation der Kabelstränge innerhalb des Rohres
sehr viele Kabelstränge auf engstem Raum, weil keine Magnetfelder und kein Wärmefall
hohe Sicherheit gegen Beschädigungen von außen
geringe Wartungskosten durch Entfall von Umwelteinflüssen

2. optical:

von außen kaum wahrnehmbar, keine Natur- und Umweltzerstörung

3. economical:

Kostensenkungen durch parallel verlaufende Arbeiten



Acceptance in Health-Arguments:

Example: Maximum **emission standards** in Europa
in 50 Hertz

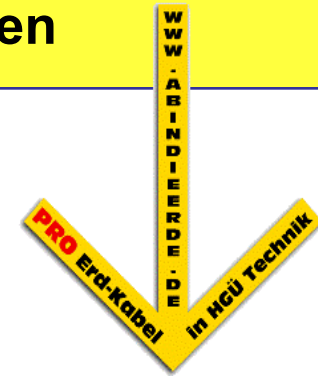
Netherlands 0,4 Micro Tesla

Switzerland 1 Micro Tesla

Italy 10 Micro Tesla

Germany 100 Micro Tesla





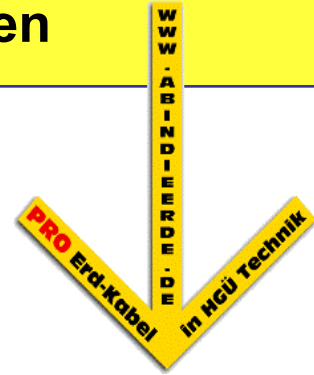
Acceptance in new fair laws:

Example: Distances between villages and grids

Nds. Leitungsausbaugesetz: in 2009	Earth grids can be used, when less than 400 m
Federal Energieausbaugesetz: (EnLAG) in March 2011	Earth grids must be used, when less than 400 m
Netzausbaubeschleunigungs- Gesetz (NABEG) in July 2011:	no specification, no explanation, no comment

Result: negativ progress, unintelligible, impossible
Population becomes „WUTBUERGER“

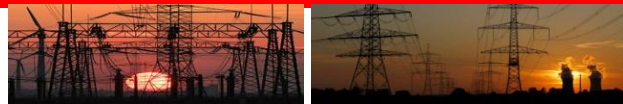




Outlook

Acceptance in the citizenship is only reachable, if ...

- ... dialogs starting between all participants (round tables) very early,
- ... communication between all participants is fairly based,
- ... transparency in each step of planing-processes and in the necessity ,
- ... implementation of professional moderators and mediators,
- ... fair compensation in case of incompatibility,
- ... indemnities payable yearly according transportation volume,
- ... installation of the latest technical know-how,
- ... remaining neutral justice in all instances,
- ... population become share-holder-status
- ... no compromise possible, finally a people's referendum



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Thanks for your attention !

People, who are fighting, they **can** be losers.
But People, who don't start fighting, they **are**
already losers.

Bertold Brecht

