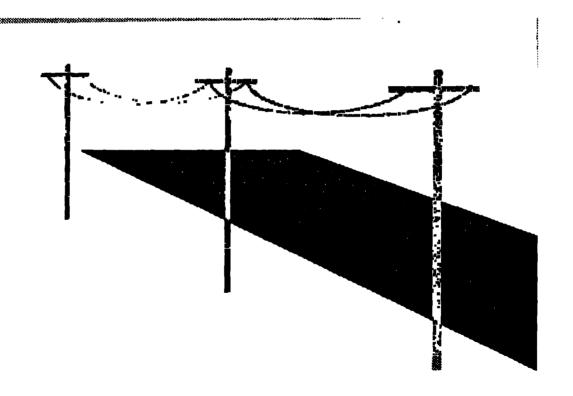
"Landscaping" and local development in France



Bodö, 24-28 May 1995

1 ASCP

AND POLICY
513 NORT
INDIANA UN
BLOOMINGTON, IN

I'm going to introduce you to a quite familiar object, which you might observe while

driving, walking in the mountains or through the countryside. I'm talking about high voltage

power lines. Why this sudden interest in such a dull and rather ugly thing as an electricity

pylon?

I'm working for the French National Electricity Company, whose job is not only to generate

electricity, but also to transport and distribute it. While distribution lines are small and sweet

(at least some think they are...), transport lines are seen as big and ugly. As people tend to

consume more and more electricity (although the last couple of years, electricity

consumption has been stable in France), these transport lines are still necessary, since it is

extremely difficult and expensive to bury very high voltage power lines (400 kV).

I'll speak about how people see these power lines, how they react when EDF builds new

ones close to their residence and what kind of consequences this has on the value of the

land. Then I'll describe efforts done by EDF to take local environmental knowledge into

account and to diminish the impact of power lines on landscape. My paper is built on

regular surveys about these questions in France and in Europe and four case studies

(qualitative surveys) (slide 1). The presentation - as time is short - will be rather general.

But I'll be happy to distribute copies of both case studies or survey results - in french - to

anybody who wishes it.

1. A change of perception

1.1 The first period

Until the 1970's, electricity pylons were symbols of progress and modernity, and as

such, accepted as something valorising for local communities. If protests aroused,

they remained week. According to french law, as soon as a high voltage power line is

declared being of « public utility » by the Prefect (the regional representative of the

State), electric pylons can be set up in private properties without « depossessing » the

owners, that is without depriving them of their property. They can also be built in

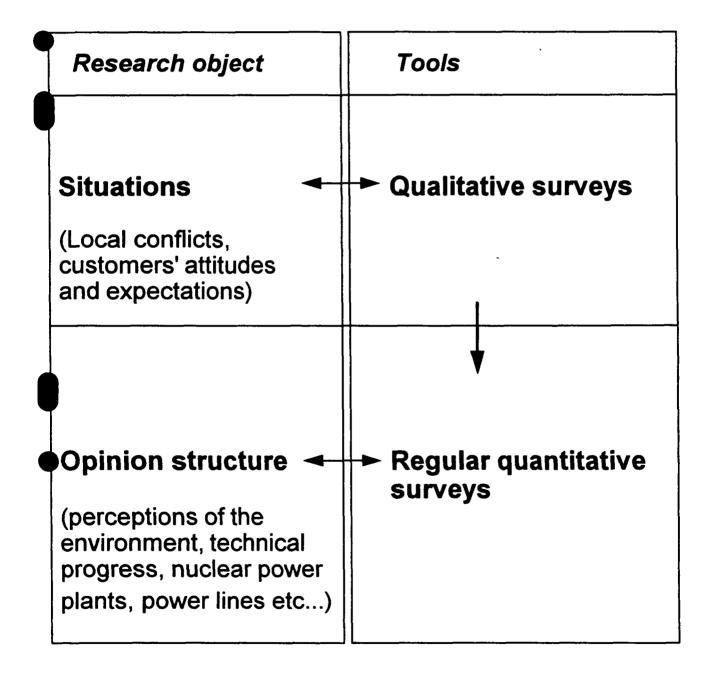
local community properties without any compensation (except a very small « pylon

tax »). This procedure, called « public utility declaration », usually takes 3 or 4 years.

Gro WÆRAAS de SAINT MARTIN, EDF-GRETS: Creating new commons: « landscaping » and local development in France Bodø. 24-28 Mav

ELECTRICITE DE FRANCE

R&D division, section for social sciencesEnvironmental studies



1.2 The situation today according to recent opinion surveys

Today, Frenchmen do not call into question the fact that electricity brings well-being

and confort. But they do see that technical progress can also have negative effects :

waste problems and risk for nuclear power plants, air pollution for coal, fuel or gas

plants, landscape destruction for power lines.

Globally, when we ask frenchmen whether they think that technical and scientific

progress will solve environmental problems in Europe, a small majority now expresses

a negative opinion (slide 2). As we can see, this is a point of view which seems to be

growing in France. In Sweden, a clear majority have no faith in technical progress,

whereas Spaniards and Czechs are much more confident.

Frenchmen do not consider, however, that power lines are a major threat to the

environment. When asked which item they find most harmful to people living nearby,

only 5% mention high voltage power lines, whereas 36% think airports are most

harmful (slide 3). We find similar percentages in the other european countries, except

in Spain and in Sweden, where they are a little bit higher (9 and 11%).

Most of the people answering these surveys - as most of us being in this room - do

not, however, live near by power lines. If they did, their answer would most probably

have been different.

High voltage power lines are actually considered by many as destroying the landscape

and thus diminishing the well-being of the people living along the power line.

Moreover, the loss of environmental quality which follows the implementation of the

line may also threaten tourism, which in some cases is a main income for local

authorities as well as for individuals and local companies.

Thus, today, absolutely all very high voltage power lines (and many high voltage

power lines too) projects are stopped or slowed down by local opposition. Let us now

have a look at why this kind of opposition grows and the way it is structured

¹ There are 36000 « communes » (≈municipalities, parishes) in France, their high number resulting in a

very small size.

Question:

Do you think that scientific and technical progress will solve Europe's environmental problems?

	1993	1994
1.Yes	48,8%	46,1%
2. No	50,4%	53,4%

Question:

Which of the following items do you think is most harmful for the people living near by?

1992	1994
(%)	(%)
8,6	11,9
37,8	36,6
1,8	2,2
3,2	5,0
15,4	15,8
19,1	17,1
14,0	12,0
	(%) 8,6 37,8 1,8 3,2 15,4 19,1

2. The nature of opposition as seen by four case studies

Up till very recently (and I will come back to this later), EDF (who builds the lines) seldom

took the local context into account at all. A classical cost-benefit analysis led to the most

economic and the technically best solution, but neglected environmental and social aspects.

As a result, some power lines cross beautiful landscapes or pass near dwellings.

The opposition against new high voltage power lines thus appears for two reasons: firstly,

because the value of the landscape is likely to diminish after the power line has been built;

secondly, because the residents feel they are confronted with a fait accompli. Their land is

damaged, but they never had any chance to influence the decision, despite the fact that they

are the ones who are going to suffer from it.

Often, these kind of movements are called NIMBY (Not in My Back Yard) groups. In their

most radical form, they are called BANANA (Build Absolutely Nothing Anywhere Near

Anybody).

However, their consciousness and argumentation's evolve very quickly (slide 4). The

NIMBY phase is actually very short, and is more used as a way of qualifying opposition as

irrational than anything else.

1. The NIMBY stage

During the what we might call the « NIMBY stage », residents fight against the future

power line most of all because they want to avoid aesthetic prejudices to their own

private property (the power line is likely to diminish the value of their property). As

Tversky & Kahneman showed (Tversky & Kahneman, 1986), individuals value a

potential loss much more than a potential gain. Thus, this potential loss becomes a

powerful « framing effect » (Lindenberg, 1989) leading to collective action.

2. The local stage

The power line gives rise to aesthetic prejudice to residents who do not take benefit

from the electricity transported by the power line. Since they fear this potential loss,

committees are created and ecological movements mobilised. As they act together, a

Gro WÆRAAS de SAINT MARTIN, EDF-GRETS:
Creating new commons: « landscaping » and local development in France
Bodø, 24-28 May

3

EDF, high voltage power lines, residents and ecological movements:

from conflict to common understanding?

STAGE 1	NIMBY:
	individual prejudice
STAGE 2	Local utility:
	collective action
STAGE 3	Public utility:
	global complaints
STAGE 4	Common utility:
	negotiations

common consciousness grows that the power line not only destroys their own individual property, but also the commons, the landscapes they enjoy collectively. The threat to local activities, especially tourism, becomes clear. The issue thus gets « localised », i.e local interests are brought to the forth, somewhere between national utility and residents' individual interests.

3. The global stage

If EDF hasn't responded to complaints and demands for negotiations by then, ecological movements and residents will tend to « globalize » the issue. Two more arguments then appears:

- high voltage power lines are not necessarily of public utility. Why not discuss alternatives, such as demand side management (energy saving)?
- Electromagnetic fields (EMF's) generated by high voltage power lines may have negative effects on health (leukaemia, brain tumours).

The issue thus clearly becomes more political.

Generally, it is during this stage that the conflict becomes violent - and that EDF, driven to the wall, has to respond. The reaction thus often came at a moment when the relations between EDF and local actors were seriously deteriorated. These fights « between David and Goliath », have been widely broadcasted by media.

The consequences for EDF and it's image were enormous. That is why, as I said at the beginning of my intervention, after having lived through a lot of conflicts of this type, EDF now invites local actors to a new way of managing the commons.

3. A change of practice

A protocol was between EDF and the State was signed in august 1992. Several improvements have been put into practice since then (slide 5):

- monetary compensation for property value loss to the residents living close to the power line;
- technical compensation (i.e burying 20 kV or 63 kV power lines) for landscape value loss;

EDF, high voltage power lines, residents and ecological movements:

from conflict to common understanding?

STAGE 1	Individual prejudice: individual compensations
STAGE 2	Local prejudice: technical compensations
STAGE 3	Public prejudice: research & development
STAGE 4	Common utility: negotiations

- wide negotiations between EDF, residents, ecological movements and local

authorities before the exact routing is decided.

I addition, EDF conducts a wide research programme on electromagnetic fields.

Epidemiological studies have been conducted together with HydroQuébec (Québec's

electricity generation & distribution firm), and biological studies are done in partnership

with french public research laboratories.

A contingent valuation study is also conducted in order to internalise the costs of landscape

destruction in a special tax which would be added to the electricity bill. More power lines

would then be buried.

Last, but not least: EDF has launched an international design competition for new high

voltage pylons. Two winners have already been selected.

Gro WÆRAAS de SAINT MARTIN, EDF-GRETS:
Creating new commons: « landscaping » and local development in France
Bodø, 24-28 May

5

Conclusion

I don't know if the experts of the « International Association for the Study of Common

Property » would call this new process a way of « reinventing the commons ». EDF has

certainly a lot of progress to do. Learning to listen to residents, ecologists and local

authorities is a long and difficult task for a technical company.

Still we can see that the situation has changed radically:

Before, the owners of a land, be it individuals, companies, farmers or local authorities,

were, according to french law, not considered « dispossessed » of their property by a power

line crossing the land. Thus, up till recently, they were not consulted by EDF about the

project, just informed after the final routing decision.

Now residents, ecological movements and local authorities participate in all phases of the

project, in order ensure that local interests and knowledge (especially about traditional use

of the land) be taken into account.

Due to the threat to landscape quality, the landscape is thus managed in common by all

the actors concerned. The aim is to achieve an equitable and sustainable management,

ensuring both landscape preservation and transport of electricity, at a reasonable cost.

Gro WÆRAAS de SAINT MARTIN, EDF-GRETS:
Creating new commons: « landscaping » and local development in France
Bodø, 24-28 May

6

REFERENCES

AFFICHARD, J. (sous la direction de), 1994: Décentralisation et coordination, actes des journées organisées pour le Ministère de l'Equipement, des Transports et du Tourisme et pour le Ministère de l'Environnement, 8 et 9 mars 1994.

ARSH, 1989 : Service du transport d'énergie et des télécommunications. Etude d'image, EDF/DEPT.

BAROUCH, G, 1987: "La création d'une décharge de déchets industriels dans la carrière de la fosse marmitaine", in Cahiers du GERMES n°12: "L'environnement dans l'analyse et la négociation des projets", pp221-237.

BAROUCH, G, 1989 : La décision en miettes. Systèmes de pensée et d'action à l'oeuvre dans la gestion de milieux naturels, L'Harmattan.

BAROUCH, Gilles, 1986: "Le tracé des lignes à THT. La réaction des riverains", in Etudes foncières n°30, mars 1986.

BOLTANSKI, L. 1990 : L'amour et la justice comme compétences, Editions Métailié, Paris.

BOLTANSKI, L., THEVENOT, L. 1991: De la justification. Les Economies de la grandeur, PUF.

BOUCHARDEAU, H 1993 : L'enquête publique : rapport de Madame Huguette Bouchardeau à Monsieur Michel Barnier, Ministère de l'Environnement.

CAMUS, A., LAFAYE, C. 1988 : Projet autoroutier et préoccupation en matière d'environnement, SRETIE/Ministère de l'environnement.

CAMUS, A., CORCUFF, P., LAFAYE, C. 1993 : "Entre le local et le national : des cas d'innovation dans le service public", Revue Française des affaires Sociales, n°3, juillet-septembre.

CAPRON, P., BOYE, L. 1993: Enquête sur l'intégration de la dimension environnement dans les pratiques professionnelles des agents des unités EGS (HN-52/93/058), EDF-GRETS.

CAPRON, P., DUBIEN, I. 1994 : Le phénomène NIMBY : le cas de la ligne 63 kV Nyons - Valréas (HN-52/94/057), EDF-GRETS.

CARDON, A., LENHARDT, V., NICOLAS, P. 1992 : L'analyse transactionnelle : outil de communication et d'évolution, les Editions d'organisation.

CAROUX, F 1979 : Les associations du cadre de vie, tome 2, Ministère de l'environnement et du cadre de vie.

CHAMPRIS (de), A., LARAMEE, V. 1994: "Non au NIMBY", in L'environnement magazine, N°1531, Oct 1994, pp30-44.

CHARBONNEAU, S. 1992 : "La guérilla contentieuse des associations de protection de l'environnement", in Revue Préventique, 1992/10 n°47, pp28-31.

DUBIEN, I., FRENANDEZ, V. 1994 : Le phénomène NIMBY : une étude bibliographique, AScA/GRETS.

DUNLAP, R.E 1993 : « Constructivist versus objectivist approaches to environmental sociology : a comparison », papier présenté à la conférence Les fonctions sociales de la Nature, Chantilly, Mars 1993.

DURASNEL, L: 1994 "Projets locaux: comment communiquer efficacement", in Décision environnement n°31. nov 94.

DZIEDZICKI, J., LARRUE, 1993: Analyse comparative des processus de décision concernant l'implantation d'installations de traitement des déchets industriels. Cas français.

FURBY, L et al. 1988: "Public perceptions of electric power transmission lines", in *Journal of environmental psychology*, n° 8 1988, pp 19-43.

GALLE, M. 1984: Le processus de décision en matière de pollution. Une étude du jeu conflictuel comme mode de régulation, Thèse université de Paris I Panthéon Sorbonne.

GRANGEAN, HENRY, 1987: "Choix autoroutiers: le cas de l'autoroute A71", in Cahiers du GERMES n°12: "L'environnement dans l'analyse et la négociation des projets".

HIRSCHMAN, A.O. 1990: Les passions et les intérêts, PUF.

d'IRIBARNE, P. 1989 : La logique de l'honneur. Gestion des entreprises ettraditions nationales, Editions du Seuil.

JOLY-SIBUET, LASCOUMES, GUCHAN, LEOST, 1988 : Conflits d'environnement et intérêts protégés par les associations de défense. Aquitaine, Alsace, Rhône Alpes, Bretagne, Ministère de l'environnement.

KALAORA, B. 1990: "Le sociologue, la science et l'environnement" in *Sretie Info*, août 1990.

LAFAYE, C., THEVENOT, L. 1993: "Une justification écologique? Conflits dans l'aménagement de la nature", in Revue française de sociologie, oct.-dec. 1993.

de LARA, Ph., MACLOUF, P. 1993 : Le service public en action : l'Equipement et ses usagers, Ministère de l'Equipement, DGAFP.

LASCOUMES, P. 1994 : L'éco-pouvoir, environnements et politiques, Editions de la découverte.

LIBAERT, T. 1992: La communication verte, Liaisons.

LIBAERT, T. 1994: *Plan de communication Granzay-Valdivienne*, EDF Poitou-Charentes.

LINDENBERG, S., 1989, « Choice and Culture: The Behavioral Basis of Cultural Impact on Transactions », in Haferkamps, H. (ed.), Social Structure and culture, Berlin, Walter de Gruyter.

MAISANI, P. 1993: La controverse entre EDF et une association de riverains: logiques d'intéraction et analyse de l'entreprise comme acteur social, Mémoire de DEA, IEP Paris.

MERMET, L. 1987: "Des solutions négociées aux problèmes d'environnement. Les expériences américaines, quelles perspectives en France", in Cahiers du GERMES n°12: L'environnement dans l'analyse et la négociation des projets, pp 395-413.

MERMET, L. 1992 : Stratégies pour la gestion de l'environnement. La nature comme un jeu de société, L'Harmattan (collection Environnement).

MOREIRA, P. 1995 : « Les guerriers de la terre contre l'enfer de la bagnole », in Le Magazine de Libération, 14/20 janvier 1995.

MOSCOVICI, S., DOISE, 1992 : Discussions et consensus : une théorie générale des décisions collectives, PUF.

MOOR, P. 1994 : « Définit l'intérêt public : une mission impossible ? », in RUEGG, J., DECOUTERE S., METTAN, N. : Le partenariat public-pribé - un atout pour l'aménagement du territoire et la protection de l'environnement ?, Presses polytechniques et universitaires romandes.

PERRIER, G. 1993 "TGV Méditerranéen: Premières leçons d'un conflit", in Revue d'Ecologie Politique n°6 1993, pp 29-46.

POLLACK, M. 1982 : "La régulation technologique: le difficile mariage entre le droit et la technologie", in *Revue française de science politique*, 32,2 ,pp.165-184

RAGON, M. 1997: L'architecte, le prince, la démocratie, Albin Michel.

RANGEON, F. 1993 : Idéologie de l'intérêt général, Ed Economica.

Rapport de la Commission du XI plan, 1993 : Environnement, qualité de vie, croissance, Documentation française.

RAWLS, J. 1987: Théorie de la justice, Editions du Seuil.

REYNAUD, C. 1992: Le mythe EDF, l'Harmattan.

REYNAUD, J-D. 1999: Les règles du jeu, l'action collective et la régulation sociale, Armand Colin.

ROMI, R. 1993: "Le droit de l'environnement à la recherche de la démocratie", in Revue Ecologie Politique, n°5/hiver 93, pp 89-94.

SAUNIER, L. 1988: Le cas Soulaines, note LSEES 88/25, sept.

SCORE, 1988 : Etude pour l'amélioration du choix de tracés des lignes à très haute tension. Analyse de l'impact des lignes sur l'habitat, éléments de synthèse, EDF/DEPT.

TVERSKY, A., KAHNEMAN D., 1986, « The framing of Decisions and the Psychology of Choice », p. 123-141 in Elster, J. (ed.), Rational Choice, Oxford, Basil Blackwell.

VALLUY, J. 1994 (a) "Peut-on éviter les NIMBY? Expériences américaines et canadiennes relatives aux installations d'élimination des déchets industriels dangereux", in *Electricité et Société*.

VALLUY, J. 1994 (b) : L'implantation négociée d'installations collectives : expériences comparées, Fondation Nationale des Sciences Politiques.

WÆRAAS de SAINT MARTIN, G. 1993: Insertion des ouvrages haute tension dans l'environnement. Un jeu d'acteurs (HN-55/93/036), EDF/GRETS.

WÆRAAS de SAINT MARTIN, G., DUBIEN, I. 1994 (a): Le phénomène NIMBY: le cas de la ligne 2x225 La Gaudière-Livière (HN-55/94/049), EDF-GRETS.

WÆRAAS de SAINT MARTIN, G., DUBIEN, I. 1994 (b): Le phénomène NIMBY: le cas de l'usine marémotrice de la Rance (HN-55/94/050), EDF-GRETS.

WÆRAAS de SAINT MARTIN, G., DUBIEN, I. 1994 (c): Le phénomène NIMBY: le cas de la ligne 20 kV Jegun-Lavardens (HN-52/94/056), EDF-GRETS.