

Risk perception and political alienism: Political discourse on the future of nuclear energy in Hungary



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ABSTRACT: This article analyzes political narratives of the discourse on the future use of nuclear energy in Hungary. In light of the January 2014 parliamentary decision to expand Hungarian nuclear energy production capacity with Russian technology and financing, the article examines parliamentary addresses of the period 2010–2013 to identify and interpret characteristics and changes in nuclear narratives of parliamentary parties and the government. The content analysis includes identification of framing, characteristics of choice of language, realization of risk and of benefit oriented speaking patterns, and the assessment of power relations between the political actors. The article argues that the nuclear communication strategies of political parties show distinct approaches: full front approach to include nuclear aspects of all possible issues, avoidance that attempts not taking sides in this issue, and re-direction that, within the nuclear framing, places a focus on other aspects with the purpose to re-define the dominant framing and to rule the discourse. Risk awareness patterns range from comprehensive to occasional, selective and latent risk perception structures. The Risk Perception Index, comprehending levels of risk and benefit perception, can serve as a model to measure, in numeric terms, the support or critique of the nuclear agenda.

KEYWORDS: nuclear energy, power relations, risk perception, discourse analysis



INTRODUCTION

Nuclear energy and the public sphere

It is argued that as the majority of Hungarian society has no access or interest in first-hand information on nuclear energy, any relevant discourse is based on constructed realities. Discourses themselves also contribute to the creation of social realities. Members of the public lack direct empirical knowledge; therefore reality is replaced by a constructed space, and defined primarily by claimed or actual experts and decision makers. In the construction of virtual space for nuclear energy, media play an essential role.

tion point of public debates or anti-nuclear movements. Even events like the Chernobyl disaster in 1986 did not bring to the surface any differing views. The only notable exception relates to the issue of uranium mining in Hungary: in the Mecsek mountains, a low lying mountain range in the southern part of the country, significant extraction of uranium deposits took place in the period 1957–1997, and reports depicting serious health consequences reached public awareness.

The fall of the communist system in 1989–1990 and the development of a parliamentary democracy prompted a new setup, where conflicts between or matching of differing interests could develop channels to reach the public's attention. The question of nuclear energy could have been one of the issues for widespread public discussion, with atomic power being one of the alternatives for meeting the growing energy needs of the economy and society. Apart from the limitations described at the beginning of the paper, no legal barriers emerged to stop public discussion on the use of nuclear energy. As an issue with widespread possibilities of association, there was a strong chance that it would become an area of intense discourse.

However, for the first 20 years of parliamentary democracy and pluralistic media, it can be demonstrated that the issue of nuclear energy and the Paks Nuclear Power Plant did not meet with public interest. By and large, sensitivity to nuclear issues did not prove significant. The only exceptions to general disinterest were periods that followed nuclear accidents, catastrophes or breakdowns. The periods following the Paks NPP breakdown in 2003 and especially the Fukushima accident in 2011 are notable exceptions to general disinterest (MKIK, 2011).

Developments in the public sphere between 2010 and 2013

In April 2009 the Hungarian Parliament brought a resolution to start preparatory steps for the expansion of the Paks NPP, with the aim of adding two further reactors to the existing four. A mandate was given to the government to start investigations, to be able to make later a well-founded decision, once expansion is recommended. Following parliamentary elections in April 2010 the new government pursued the mandate granted by the previous parliament.

Four years later, on January 13, 2014, in the presence of Russian President Vladimir Putin and Hungarian Prime Minister Viktor Orbán, the general director of Russian nuclear energy giant Rosatom and the Hungarian Minister for National Development signed an intergovernmental agreement for the construction of the two new units at the Paks NPP. To secure financing of the construction, Russia agreed to offer a loan of up to 10 billion euro. The current analysis studies the period leading to the decision of signing of the Paks expansion deal and seeks signs if, during the period 2010–2013, any reference were made to actual preparation of a nuclear agreement contract between Hungary and Russia.

In order to analyze the prevailing narratives in Hungary in the period 2010–2013, focus is put to the analysis of political discourse. The study of texts of parlia-

possibility reinforces Habermas' claim that the "sine qua non" of the public sphere is the strong division between state and society. However, as Habermas noted some sixty years ago, the emerging "societalization" of the state, parallel to the growing "stateification" of society, gradually destroy the basis of the bourgeois public sphere (Habermas, 1962). The state becomes the master of publicity and turns it away from its original function. This results in the state becoming an active influencer of societal affairs. Social affairs are not any more governed by their own bourgeoisie, but become influenced and then subordinated to interventionism. The re-politicized social sphere brings along the falling apart of the public sphere.

Perceived risks, benefits and the public sphere

Risk perception forms a dominant element of discourse. As the issue of safety gains prominence in modern societies, perceived risks are lighthouses that set directions for communication, interaction and behavior. Risk becomes the dominant descriptor of modern societies, therefore risk taking ability and risk perception are key factors in social survival and development (Beck, 1992, 2006). It is claimed that survival chances of societies could grow through a focus on distribution of risk, instead of distribution of wealth. Arguably, interpretation of risks should not be limited to their technological and natural science contexts, but their social, cultural and political relevance should also be admitted. In order to handle "civilization costs," science needs to go hand in hand with political, economic and ethical considerations. The concept of a risk society builds on the notion of imagined communities (Anderson, 1983), as Beck identifies the factor of risk as the key binding material of modern communities (Beck, 1992). This argumentation may challenge the notion of the "political alien" (Szabó, 2006) where the discursive differentiation is the prime factor of distinction between "us" and "them." Beck (1992) emphasizes the universal relevance of belonging to a society based on risk. Risk in his argumentation affects every single member of society while the concept of "political alienism" (Szabó, 2006) would imply that some people are affected by risk, while others are not.

It is argued that concepts of universal sharing of risks and political alienism imply contradictions. The first suggests that recognition of risk creates strengthened community feelings, while the latter underlines that detailed interpretation of risk, including its causes and results, reinforces inclination to differentiate and even antagonize differences. The latter approach lacks the acceptance of shared responsibility and shared consequences, even if creation of risks as well as managing its consequences affects every member of society.

The interrelation between the issue of risk and alienism is demonstrated if groups of people start to become perceived as alien groups, the subsequent discourse on dangers and risks intensify. Alternatives are not any more discussed as possible actions with equal chances for decisions, but are differentiated as a clear

choice between “our” alternative that brings benefits and is in the interest of people with whom empathy is expressed, and “their” alternative that brings dangers, risks and the outcome of which cannot be foreseen. It may well be that “their” alternative serves interests that are unclear or even diabolic. Consequent fear strengthens further the perception of fear from actors whose intentions are unknown and should be rightly feared of. Differentiation between the known and the alien further intensifies developments of selection mechanisms and construction of parallel realities.

The phenomenon of alienation extends beyond the socio-political dimension, and also includes the social-technological dimension. Contrast between safe and secure on the one hand, and unforeseen and full of risks on the other hand becomes an overriding concept for a wide range of technological areas, such as innovations, investments and development models. The social sphere of life is also dominated by preference to what is considered safe and secure: preference for choices in arts, sports, education, health care — or even political parties — is often based on the concept of safety and security.

Finally, it needs to be acknowledged that perception of risk differs considerably. Experts and lay people have contradicting perceptions of risk (Vári, 2009). Experts base their risk assessment on correlations of statistical data, where numeric values provide probabilities of the occurrence of certain outcomes. Nonprofessionals base their judgment on contextual characteristics, such as the level of fear and level of notoriety. Risk perception is relative and acceptance of risk depends primarily on the trust expressed in the institution managing the given risk (Slovic, 2000).

Risk is an element measured of the probability and the impact of the occurrence of a given event. The higher the likelihood of the occurrence of an event to happen, and the higher the impact of the manifestation of the given event, the higher the consequent risk is. Risk relationship can be expressed as a mathematical equation as: Risk = Impact x Probability.

Fears related to technological progress do not only relate to perceived risks. Awareness exists in the public that technological innovations always bear social consequences as well. Innovations therefore have both a social and a technological dimension. The contrast between these dimensions increases tension and contribute to reluctance to accept or adapt to technological innovations (Felt & Wynne, 2007).

METHODOLOGY

Plenary sessions of the Hungarian Parliament of the period October 2010–December 2013 were analyzed, using the tools of content analysis. Transcripts of parliamentary plenary sessions² were coded and analyzed to study nuclear energy re-

² Transcripts are available and researchable from the website of the Hungarian Parliament. Retrieved February 10, 2014 from http://parlament.hu/internet/plsql/internet_naplo.

lated political discourse. All texts have been considered that included the term “nuclear energy” or “nuclear.”³ First, all transcripts were categorized according to their elements of identification. Identification allowed quantitative assessment of the political discourse through affirming critical numbers and distributions among speeches.

Identification coding was done according to the following criteria:

- name of Member of Parliament (MP),
- MP’s party affiliation,
- date of speech,
- law under discussion.

Identification was followed by a contextual analysis to specify the presence and meaning of nuclear energy related terms. Contextual analysis allowed for the qualitative assessment of the individual and the aggregate text corpuses.

Contextual coding was built on the following criteria:

- reference made in speech to the speeches of MPs from other parties,
- key words,
- key message,
- risks mentioned in relation to the expansion of the Paks NPP,
- benefits mentioned in relation to the expansion of the Paks NPP,
- specific reference implying power relations.

FINDINGS

Distribution of addresses

In the parliamentary term studied the following parties were represented in the Hungarian Parliament: Fidesz (government, conservative), KDNP (government, Christian Democratic), MSZP (opposition, socialist), Jobbik (opposition, national radical), LMP (opposition, green) and PM (opposition, green).⁴ Representatives of each political party contributed to the parliamentary discourse on nuclear energy.⁵

Analysis of interventions show that of the 162 addresses dealing with the issue of nuclear energy, representatives of LMP commented most frequently (46 occasions), followed by government representatives (28), Jobbik (26), Fidesz (24) and MSZP (23). Comments were most frequently made by Bernadett Szél (LMP, 18),

³ In Hungarian these are covered by 2 distinct terms: *atomenergia* and *nukleáris*. Technical contributions, such as the speaker of the house reading out the name of the legislation before voting, were omitted.

⁴ The PM was formed in February 2013 following its breakaway from the LMP. Its deputies became independent members of the Hungarian Parliament, as members could not form faction.

⁵ In the case of parties in the government, there is a separate indication to addresses made by party representatives or delivered on behalf of the government.

background. Furthermore, the critical approach of people with a non-engineering background is usually broader, and looks at the issue of nuclear energy not only from an operational perspective, but through considering the issue as part of a complex socio-environmental framework (Table 2).

Table 2. Most frequent speakers on nuclear issues

| Name and surname | Year of birth | Profession | Political party | Number of addresses | Critical / supportive to Paks expansion |
|------------------|---------------|-------------------------|---------------------|---------------------|---|
| Bernadett Szél | 1977 | economist, sociologist | LMP | 18 | C |
| István Józsa | 1953 | engineer | MSZP | 12 | S |
| Benedek Jávör | 1972 | biologist | LMP | 12 | C |
| János Kepli | 1978 | engineer | Jobbik | 12 | S |
| János Fónagy | 1942 | lawyer | government (Fidesz) | 11 | S |
| László Szilágyi | 1965 | teacher | LMP | 11 | C |
| András Aradszki | 1956 | lawyer | KDNP | 7 | S |
| Pál Kovács | 1963 | engineer | government (Fidesz) | 7 | S |
| János Bencsik | 1965 | theologian, sociologist | Fidesz | 7 | S |
| István Göndör | 1950 | economist | MSZP | 6 | S |
| Ferenc Tóth | 1950 | engineer | Fidesz | 5 | S |
| Zoltán Balczó | 1958 | engineer | Jobbik | 5 | S |
| János Bencsik* | 1965 | theologian, sociologist | government | +4 | C/S |
| Benedek Jávör* | 1972 | biologist | PM | +2 | C |

* The 31 December 2011, State Secretary of Energy János Bencsik left his government position, while in February 2013 Benedek Jávör quit the LMP and became co-founder of the PM. Number of addresses in these line indicate their addresses in their new positions.

Source: www.parlament.hu, retrieved February 10, 2014.

Referencing in speaking

Occurrences were then analyzed where advocates would make direct reference to a remark made by another member of parliament. These references give an indication on narratives changing into discourse, on creation of discussion chains, and reveal an intention to turn representation of narratives into dialogues or even streams of communication. The LMP made 15 such references, followed by Jobbik (10) and MSZP (7), while the government (3) and Fidesz (2) lagged behind. Fi-

aspect. Their strategy can be characterized as that of a full front approach. MSZP preferred not to be involved with direct development issues, therefore their strategy can be described as that of avoidance. Fidesz, KDNP and Jobbik as well as the government opted for restraint from positioning development plans as the actual focus of nuclear issues. Their strategy can be described as a drive for re-direction.

Discussions on nuclear-related bills

Deliberation on nuclear energy took place in relation to discussion of relevant bills, or through the raising of direct questions. Most frequently the contributions were made when a law, directly effecting and regulating nuclear issues, was discussed. The modification of the nuclear law in 3 stages, the modification of the energy law in 2 stages, the debate and elaboration of the national energy strategy and the reports of the safety aspects of the use of nuclear energy dominated the scene. A significantly lower number of comments were recorded when the social — environmental setting of nuclear energy was regulated. These references included the proposal on the public access to information in relation to the planned Paks expansion, modification of the law on mining, the national framework strategy on sustainable growth and the modification of law on spatial planning (Table 4).

Table 4. Proposed acts related to nuclear energy

| Name of law | Name of law in Hungarian | Registry number | Dates of discussion | Number of addresses |
|---|---|-----------------|---------------------|---------------------|
| Modification of law on nuclear energy | Az atomenergiáról szóló 1996. évi CXVI. törvény módosítása | T/3288 | 6/8-27/2011 | 21 |
| Energy strategy | A nemzeti energiastratégiáról | H/3839 | 9/13 - 10/3/2011 | 17 |
| Report of safety of nuclear operations | Az atomenergia 2009. 2010. és 2011. évi hazai alkalmazásának biztonságáról szóló jelentés elfogadásáról | H/9949 | 2/12/2013 | 16 |
| Law on nuclear energy | Az atomenergiáról szóló 1996. évi CXVI. törvény módosításáról | T/9235 | 11/27/12 | 10 |
| Law on nuclear related issues | Az atomenergiával, valamint az energetikával kapcsolatos egyes törvények módosításáról | T/11101 | 11/27/12 | 9 |
| Modification of certain energy related laws | Egyes energetikai tárgyú törvények módosításáról | T/13055 | 11/19/13 | 5 |

The analysis shows that the risk perception of the LMP is especially high on the issue of costs, safety and lack of information and public control. Past records, time and budget overruns as well as doubts about sustainability also prevail. To a much lesser extent, Fidesz is aware of the risks related to costs, lack of publicly available information and sustainability, while Jobbik mentions possible risks in relation to handling of used fuel rods and safety. The LMP portrays a comprehensive risk awareness model, where financial, managerial, environmental and political issues all abound. Fidesz has a representation of selective risk awareness where certain risk elements appear randomly. Jobbik has occasional risk awareness, primarily related to its claimed expertise in technological aspects. Government representatives did not touch upon any of the risk elements in the given period, signaling a latent risk awareness (Table 5).

Table 5. Number of mentions of nuclear-related specific risks

| | Costs | Safety | Lack of public control, information | Not sustainable | Past record | Leaves no space for renewables | Time and budget overruns | Long term handling of fuel rods | Total |
|--------|-------|--------|-------------------------------------|-----------------|-------------|--------------------------------|--------------------------|---------------------------------|-------|
| LMP | 5 | 4 | 3 | 1 | 2 | 1 | 1 | — | 17 |
| Fidesz | 1 | — | 1 | 1 | — | — | — | — | 3 |
| Jobbik | — | 1 | — | — | — | — | — | 1 | 2 |
| Total | 6 | 5 | 4 | 2 | 2 | 1 | 1 | 1 | 22 |

Source: author.

In terms of benefits, the positive effects on the environment through decarbonization provide the dominant framing, followed by cost efficiency and perceived low cost as well as security of energy supply. Safety of operations and reduction of dependency on energy imports are also mentioned. Narratives on benefits are led by Jobbik (7 mentions), followed by the government (5), Fidesz and MSZP (4 each). KDNP contributes with 1 argument for the benefits, while LMP deputies do not account for any benefit in their speeches.

The benefit mapping of parliamentary parties provides an even spread of advantages of nuclear energy across the range. With the exception of the LMP, all parties mention some or several benefit elements. With the highest number of mentions, government representatives emphasize benefits the most, reflection of an absolute benefit perception. Jobbik perceives environmental effects, cost factors and the energy supply security as main benefits in the framework of an accentuated benefit model. Fidesz and MSZP show an even distribution of various benefit factors, representing a balanced benefits model (Table 6).

emphasize benefits over risks, while opponents usually put focus on risks ahead of benefits, the balance of benefits and risks gives manifestation to levels of support or dissent to the expansion project. Based on the Risk Perception Index, the most ardent supporter of the Paks expansion project is the government, followed by Jobbik, MSZP and Fidesz, while the only and notable critic of the nuclear project is LMP (Table 7).

Table 7. Balance of risks and benefits based on nuclear-related parliamentary addresses

| | Government | Jobbik | MSZP | Fidesz | KDNP | LMP |
|--------------------------|------------|--------|------|--------|------|-----|
| Risks | 0 | 2 | 0 | 3 | 0 | 17 |
| Benefits | 13 | 9 | 5 | 7 | 1 | 0 |
| Balance (risks-benefits) | -13 | -7 | -5 | -4 | -1 | 17 |

Source: author.

Reference to power relations

Once the differences between parties in relation to their nuclear energy attitudes are noted, it is worthwhile to identify language structures of political actors. The overall terms and political argumentation serve two purposes: it is an attempt to convince other parties and/or the government of an actual position, and it is a demonstration to the public sphere that the actual political party represents the interests of its electorate. Language structures may provide in-depth explanations for political standpoints regarding the issue of nuclear energy as well as views on each other's electorate. Analysis of language gives an indication as to how the power relations are perceived between actors.

Categories and reference to power relations prove that political language is indeed an important tool in creating reality. Framing of the issue of nuclear energy is accomplished through the use of specific language. Transcripts do not provide detailed information on emotions, but indications are that emotional content adds significant elements to the language construction (Table 8).

Table 8. Quotes with reference to power relations (Authors' translation into English)

| Name, surname, political party | Date | Quote | Category, reference to power relations |
|--------------------------------|--------|--|--|
| János Bencsik, Fidesz (gov) | 6/8/11 | We are speaking about the replacing of existing capacities, and not about expanding additional capacities. | Political turning point, first reframing of the issue, change in narrative |
| István Göndör, MSZP | 6/8/11 | Let us create a positive public atmosphere and acceptance of the expansion. | Misuse of terminology on purpose |

| | | | |
|-------------------------------|----------|---|---|
| Pál Völner, Fidesz (gov) | 6/3/13 | If the distinguished MP had not only focused on keeping contact with the Austrian green party reps during the visit at Paks, obviously he could have received much more detailed pieces of information. | Discrediting the other person, speaking from up to down |
| János Fónagy, Fidesz (gov) | 10/28/13 | Dear Ms. MP, please relax (laughter and clapping from government benches). You will receive an answer to every rational question of yours. | Discrediting the other person, speaking from up to down, sexism |
| Viktor Orbán, Fidesz (gov) | 12/2/13 | I am happy to tell you this, but if you had prepared before your speech, you could have read it for yourself. | Discrediting the other person, speaking from up to down |

Source: author.

In the political context, language serves the purpose of winning over the others. Choice of words and manufacturing of sentences show self-confidence, awareness of self-importance and significance dedicated to the issue. In certain cases missionary commitment, careful distancing or even skepticism is felt. Whichever way it is, choice of language is not accidental, it is a representation of the individual and group (party) attitude to the issue of nuclear energy.

CONCLUSIONS

Analysis of political discourse on the nuclear agenda indicates diversity of strategies, narratives and use of language. Individual narratives are influenced by personal background, party affiliation and perceived interests of the electorate. Communication is situational with content and style of narratives varying over time in relation to changes in individual, party and government strategy, focus, situation and audience. Most of the addresses are expressions of narratives and do not refer to allocutions from others. However, when reference is made, it is usually confrontational. Contrasting, confronting or even alienating is not only reflected in differing contents, but in construction of language and tone attempting to minimize, ridicule, discredit or speak down to other actors. Nuclear communication strategies of political parties show distinct approaches: a full front approach to include nuclear aspects of all possible issues, avoidance that attempts not taking sides in this issue, and re-direction that, within the nuclear framing, places focus on other aspects with the purpose of defining the dominant framing and to rule the discourse. Each actor, including the political parties and the government have their distinct

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