

JOURNAL OF WATER AND LAND DEVELOPMENT

e-ISSN 2083-4535



Polish Academy of Sciences (PAN)

Institute of Technology and Life Sciences - National Research Institute (ITP - PIB)

JOURNAL OF WATER AND LAND DEVELOPMENT DOI: 10.24425/jwld.2021.139936 2021, No. 51 (X–XII): 279–284

Contextual nature of sustainable development in the activity of an enterprise, on the example of a municipal enterprise

Piotr Bartkowiak¹⁾ ⊠ ♠, Anna M. Bartkowiak²⁾ ♠

RECEIVED 06.11.2021 REVIEWED 20.11.2021 ACCEPTED 14.12.2021

Abstract: Nowadays, in order to ensure high quality of municipal services, and thus a high quality of life for the local community, the authorities of both the basic local government unit and managers of municipal enterprises must strive to maintain high standards of sustainable development. The level of quality of life and services provided can be determined by various dimensions, such as: ecological environment, housing conditions, ecological production in the field of consumer goods, balance between built-up areas and green areas, care for agricultural areas, limiting the deepening social stratification, rational economy water or rational waste management. Therefore, the paper presents a theoretical analysis of the main directions of sustainable development in the activities of municipal enterprises.

Keywords: activity of an enterprise, local government, municipal enterprise, sustainable development

INTRODUCTION

Undoubtedly, from the cognitive point of view, the main area of considerations will be the tasks that the local government administration performs in the field of broadly understood communal services for the local community, i.e. all inhabitants of the commune, in relation to sustainable development. They are defined in detail in Art. 7 sec. 1 of the Act of March 8, 1990 on municipal self-government [Obwieszczenie ... 2021], in which the legislator presents the entity that is the addressee of these tasks, i.e. the community. Depending on the size of the community, municipalities may be rural or urban. However, the legislator does not specify what features should distinguish a rural commune from an urban commune. The only formal element is the provision that a commune or town was granted the status of a town (Art. 4a).

In the cognitive context, an important element concerning the functioning of each commune is the participation of citizens in management (including co-deciding on the development of the commune, effective management of entrusted public property) having its significant source in the decentralised structure of this type of organisation. This approach is the result of the growing number of tasks that local government administration units must perform for the local community, and above all, the need to increase efficiency in the implementation of these tasks [Piasecki 2020].

CHALLENGES TO BE FULFILLED BY MODERN MUNICIPALITIES

The post-Fordist economic system after the World War II contributed to the rapid development of various types of municipalities: urban, urban-rural and rural, both in terms of spatial and structural differentiation [Parysek 2008]. The phenomenon of urban sprawl on rural areas seems to be the most urgent at present in terms of finding and implementing measures to minimise its effects. The process of spatial expansion of the city – suburbanisation, which in the case of Polish cities occurs with a delay of about 20 years in relation to Western European cities, entails a chain of unfavourable phenomena

¹⁾ Poznan University of Economics and Business, Department of Investments and Real Estate, Niepodległości Av. 10, 61-875 Poznań, Poland

²⁾ Institute of Technology and Life Sciences – National Research Institute, Falenty, Poland

contributing to the deterioration of the quality of life of an average citizen [Litwińska 2008].

In Poland, in the case of communes, the pace of development of built-up areas is much faster than the pace of development of local infrastructure. Therefore, the contemporary uncontrolled development of communes may contribute to the loss of their natural, social or agricultural importance for the inhabitants and potential investors [Bartkowiak, Koszel 2013]. Therefore, certain models and directions of sustainable development in the spatial form of a commune should be adopted (ecocity, compact city, green city, redesigning a city, externally dependent city, fair shares city, multi-functional and intensive land use, new urbanism and finally smart growth) and quality of life (self-reliant, community garden, just city and XXQ city), which have developed over 40 years and covered various aspects of the functioning of these units [Mierzejewska 2015].

ELEMENTS OF THE PRO-ENVIRONMENTAL POLICY OF ENTERPRISES OPERATING FOR THE BENEFIT OF THE LOCAL COMMUNITY

Managing an enterprise that performs tasks for the benefit of the inhabitants of each commune (public utility company) has a specific character. They are forced by the type of the commune itself and the role it plays in the structure of local government administration. Decisions made in this type of entities can be considered on two levels. On the one hand, the commune, as a community of residents, is to pursue social goals, and on the other hand, the commune, running a business in the form of a commercial company, as a legal entity, should act for the benefit of this company. About enterprises providing specific services to the community, it can be said that [Familie et al. 2019]:

- meet the basic needs of residents;
- are often durable and technically indivisible;
- are capital-intensive with a high share of fixed costs;
- prices of their services do not include market prices;
- generate positive or negative externalities for the recipients.

Decisions made by municipal bodies and authorities are a derivative of, in most cases, the implementation of the macroeconomic policy of the state and the government. Currently, it can be implemented on the basis of five principles of sustainable development proposed by Prakash and Kollman [Chodynski 2007]:

- command and control;
- market, e.g. sale of emission rights;
- mandatory information disclosures;
- partnerships between the government and business in the area of pro-ecological activities (business – government – partnership);
- voluntary internal regulations.

However, they are not obligatory among this type of enterprises. While their implementation depends on legal regulations – the first four principles, in the case of the last principle, the financial capabilities of individual units have a significant impact. Until recently, the world pursued a policy based on the end-of-pipe philosophy, i.e. limiting the discharged pollutants by installing costly cleaning devices. At present, the company's strategy should aim to eliminate pollution, but at the source. Over the years, there has been a gradual evolution in

thinking and action strategies in the field of environmental protection. Based on the literature on the subject, it is possible to indicate several stages of evolution in this area, from the stage of inspiration, through the stage of maturation, fascination, implementation and integration, and ending with the stage of doubt, which concerns the feasibility of applying the adopted assumptions in economic practice [BAK, CHEBA 2020].

Therefore, macroeconomic policy often determines the functioning of a municipal enterprise through:

- making one's own goals dependent on political decisions;
- frequent change of strategic goals and priorities resulting from the lack of program continuity of central and local authorities;
- making the activity dependent on financial policy instruments [Dobrowolski, Нетко 2004].

However, an important feature of each public entity is its purposefulness of operation, which in the economy 4.0 in terms of public utility entities should be focused on:

- people as the main beneficiary of public services;
- transparency of management processes;
- long-term development strategy;
- cooperation of various environments from the commune in which the entity operates;
- use of modern technologies in the areas of the entity's operations [Jonek-Kowalska (ed.) 2021].

EFFICIENCY CRITERIA OF GOALS OF A COMMUNAL ENTERPRISE

As the enterprise develops the range of services provided or the production process, its purpose should be updated. Due to the complexity of the main goal, which includes individual goals, there may be difficulties in defining and quantifying it. Constructing goals is related to the expected satisfaction of the needs in the future. In the literature on the subject, there is a belief that profit and its maximisation is the economic category that determines the goal function of the enterprise to the greatest extent. The neoclassical model of an economic entity that considers profit maximisation ignores the impact and relationships of income distribution over time, cash flow and risk [Bartkowiak 2009]. However, the neoclassical approach has a certain disadvantage, because due to the large diversity of enterprises, their diversity of forms (production, service and municipal enterprises) and the way of capital management and property liability of owners are not noticed. Therefore, closer to municipal enterprises is the behavioral approach in which the entity is treated as a multi-element structure, each of which has its own sphere of activity resulting from the assigned competences. The effect of this activity, apart from possible profit, could be:

- poverty reduction;
- socially sustainable growth;
- social inclusion;
- employment opportunities and decent work;
- improving the welfare of the local community [Szyja 2020].

The goals in the activity of a municipal enterprise can also be formulated as a need which is an objective reflection of the situation that determines the duration and development, and as an action which is a state of desire for things which the enterprise pursues at a given time [Fabianska, Rokita 1986]. Of course, this

"need" and "action" as goals constitute the basis for determining the agility criteria of goals classified according to [Kuc 2008]:

- purposefulness of action primary and secondary goals;
- spontaneity of the choice of goals own and set;
- hierarchy end goals and intermediate goals;
- scope individual, particular and institutional goals;
- compliance coordinate, competitive and alternative goals.

According to P.F. Drucker, formal goals and their scope can be assigned [Bieniok, Rokita 1980]:

- profitability analysis in terms of the expenses incurred;
- market position share in turnover, prices, distribution network, company image;
- productivity improving the relation between the obtained results and the expenditure incurred;
- financial resources the scope of determining the demand and raising funds for the activity;
- innovations technical, technological, organisational and economic
- effectiveness and the possibility of development of the managerial staff managerial contracts, payroll system;
- increase in employee productivity improvement of working conditions, health and safety, various ways of motivation;
- scope of public responsibility tasks towards the environment, environmental protection, sustainable development.

The last of these goals is public accountability. This responsibility includes, inter alia, environmental protection and sustainable development. Therefore, environmental protection is one of the goals of a modern enterprise. These goals are divided into formal and substantive. The formal goal is one that appears officially along with others in the structure of the overall goals of the enterprise, and the material goal is related to the production or its organisation, which is pro-environmental in nature. Understanding the environmental goal and including it in the provision of services, which in the municipal economy are the primary goal of the enterprise's activity, two categories of entities are obtained. One group consists of enterprises whose purpose is only to provide services, and the other one is to provide equivalent services and environmental protection [ZIMNIEWICZ 2003]. It results from the essence of the formal and substantive goal.

ACTIVITIES OF A MUNICIPAL ENTERPRISE DEALING WITH SUSTAINABLE DEVELOPMENT

By jointly analysing the environmental goal with the environmental protection policy (passive and active), a two-dimensional matrix can be constructed (Fig. 1). In each field of the matrix, the appropriate type of enterprise was located, marked with the letters A, B, C or D [Bartkowiak, Krzakiewicz 2018].

In fields C and D there are enterprises in which environmental protection has been included as a goal and object of the enterprise's policy. In a detailed provision, the type C enterprise is characterised by environmental protection as an endogenous material objective, and type D entities by environmental protection as an endogenous formal objective and an additional normative postulate. Therefore, environmental protection in type C entities is an internal goal of the company and an element of the product-market strategy. It manifests itself in voluntary undertaking of various undertakings influencing the saving of natural resources, as well as in the use of environmentally friendly technologies in the technological process. Even stronger impact and prevention of environmental threats through the implementation of safe and clean technologies, processes and products can be observed in type D enterprises. In this group, the priority objective of the activity, apart from providing the service, is environmental protection. This is done by formally defining environmental goals that are part of the action strategy [Adamczyk, Nitkiewicz 2007].

In the case of companies included in groups A and B, due to the passive nature of the environmental protection policy, it should be stated that all related activities are dictated by external requirements resulting from legal provisions. Therefore, in the field indicated for type A enterprises, environmental protection, as an exogenous material objective, is enforced by regulations, norms and standards, and type B entities formulate environmental protection in the form of material objectives, as an object of public relations [Adamozyk 2001].

In each of these groups, in order to introduce appropriate technical and technological solutions and obtain the intended benefits, the managerial staff may adopt four mechanisms of implementing innovative solutions in the field of basic activities of entities:

- slight modifications;
- significant redesign;
- alternative solutions;
- completely new: processes; methods or services [Pichlak 2020].

The pro-environmental orientation of municipal enterprises' goals is becoming more and more visible. This is facilitated by direct interaction instruments (CAC), which are prescriptive, controlling and prohibitive. In the activities of these enterprises, this leads to the designation of regulations governing the quantitative limitation of pollutant emissions, spatial management, as well as the possibility of using and using environmental resources.

Consequently, with decreasing ecological capacity, the risk of:

ecological crisis, which reflects the level of tolerance of ecosystem loads, the level of nuisance unfavourable to the ecosystem or the level of threats and damage to the ecosystem;

		Objectives	
		provision of services	provision of services and environmental protection
Environmental policy	passive	type A enterprise	type B enterprise
	active	type C enterprise	type D enterprise

Fig. 1. Matrix of the goal and environmental protection policy; source: own study based on ZIMNIEWICZ [2003]

ecological catastrophe, i.e. irreversible level of ecosystem damage or system decay [Brodka 2021].

The necessity of sustainable development of a municipal sector enterprise in the category of possible strategic goals should be considered as the resultant of the weights of three options:

- profit in relation to safety and growth;
- growth in terms of safety and profit;
- security with respect to profit and growth [Banaszyk 1998].

The choice of each of these options allows for the implementation of strategic requirements in a different way, but they cannot, especially in the case of this type of entities, be deprived of a strong relationship with the environment. Therefore, a municipal enterprise should carry out systematic analyses of various factors in order to correctly implement the principles of sustainable development. According to the United Nations, these factors include [Clark II, Cooke 2016]:

- demographics;
- urban forms and building density;
- the wealth of the local community;
- the volume of consumption of products and services by residents:
- environmental and legal policy (depending on the type of services provided);
- competitiveness of other service providers.

SUMMARY

In terms of the activities of enterprises performing tasks for the local community, it becomes important to determine at what level of the commune environmental, social and economic elements should be taken into account in order to be able to talk about sustainable development. It is therefore necessary to define the scope of these activities, which individually (due to the services provided) will be adjusted to: the specificity, structure of the activity and development possibilities of the entity, the structure and wealth of the inhabitants of the commune, and finally the natural environment in which the entity is located [Jones 2021]. An area where community action is necessary to ensure sustainable development. This area includes the local community, with its cultural heritage, the use of the natural environment, and in particular the functioning and productivity of basic ecosystems and opportunities for economic development. The second element with a significant impact on sustainable development is expenditure on investment and non-investment forms of development. The last element of this triad is the long-term development of the basic unit of local self-government [Giordano 2005].

The functioning of a municipal enterprise should be included in the sustainable development of a commune understood in this way. Therefore, for the effective and efficient performance of all its functions, standards regarding economic, social and environmental standards in the scope of the company's activity must be specified (Tab. 1).

For this purpose, intelligent solutions can be implemented, in the construction of which will be used: mechanisms for the provision of real-time services, knowledge engineering with aggregation and analysis of all data, as well as trouble-free and quick access (for authorised persons) to information from various levels of enterprise and commune management [Obaidat,

Table 1. Standards, goals and benefits for the company resulting from sustainable development

Type of standard	Primary purpose	Benefit
Economic	performance increaseachieving the security of interestssafety for recipients	balance in the environment reputation increaseincrease in consumer welfare
Social	 customer satisfaction competitiveness with other service providers brand strengthening 	 increased demand for products certainty of service delivery
Ecological	 reduction of pollutant emissions compliance with the granted ecological limits environmentally and inhabitants-friendly production 	 lower environmental penalties the possibility of increasing profit increase in the company's value and reputation

Source: own study based on BØGELUND [2007].

NICOPOLITIDIS (ed.) 2016]. In a holistic framework, both entities will be able to implement an open policy for the local community in terms of sustainable development, use a flexible approach in procedures, and transparency and risk sharing in social and intersectoral relations [Herrschel, Dierwechter 2020]. On the other hand, in the relation between smart city and entrepreneurial activities, the following interactions can be indicated: human capital, knowledge management, identification of the use of business opportunities, inter-organisational partnership, corporate entrepreneurship and research centers [Jonek-Kowalska, Kazmierczak (ed.) 2020].

The most optimal solution in the case of achieving the goals of a municipal enterprise is to maintain a balance in the field of economics regarding the development of the country, and thus the local community and economic entity, and ecology, including awareness of the natural environment of the local community [Hua 2019]. This will allow the preservation of natural resources for future generations, in an undeteriorated condition, with the optimal use of all necessary endogenous raw materials in the development of the company and increasing needs, as well as the expectations of local communities [Rokochinskiy et al. 2021]. By introducing additional standards, the coherence of the company with the local community will be ensured. The additive effect for sustainable development will be highly beneficial, both for this type of enterprises, the commune authorities and the inhabitants themselves [Bartkowiak, Krzakiewicz 2018].

REFERENCES

ADAMCZYK J. 2001. Koncepcja zrównoważonego rozwoju w zarządzaniu przedsiębiorstwem [The concept of sustainable development in enterprise management]. Zeszyty Naukowe / Akademia Ekonomiczna w Krakowie. Seria Specjalna. Monografie. Nr 145. ISBN 83-7252-07603 pp. 258.

- ADAMCZYK J., NITKIEWICZ T. 2007. Programowanie zrównoważonego rozwoju przedsiębiorstw [Programming the sustainable development of enterprises]. Warszawa. PWE. ISBN 978-83-208-1705-8 pp. 173.
- Banaszyk P. 1998. Formułowanie celów strategicznych w zarządzaniu polskimi przedsiębiorstwami [Formulating strategic goals in the management of Polish enterprises]. Akademia Ekonomiczna w Poznaniu. Zeszyty Naukowe Seria II. Prace habilitacyjne. Z. 152. ISSN 1230-6673 pp. 156.
- Bartkowiak P. 2009. Koncepcja zrównoważonego rozwoju w funkcji celów przedsiębiorstwa komunalnego. W: Instrumenty zarządzania we współczesnym przedsiębiorstwie nowe kierunki [The concept of sustainable development as a function of the goals of a municipal enterprise In: Instruments of management in a contemporary enterprise new directions]. Ed. K. Zimniewicz. Zeszyty Naukowe Uniwersytetu Ekonomicznego w Poznaniu. Nr 129 p. 27–35.
- Bartkowiak P., Koszel M. 2013. Wskaźniki zrównoważonego rozwoju miast jako nowy paradygmat w zarządzaniu. W: Dynamika, cele i polityka zintegrowanego rozwoju regionów: Aspekty teoretyczne i zarządzanie w przestrzeni [Sustainable urban development indicators as a new paradigm in management. In: Dynamics, goals and policy of integrated development of regions: Theoretical aspects and management in space]. Ed. W.M. Gaczek. Poznań. Bogucki Wydaw. Nauk. p. 175–190.
- Bartkowiak P., Krzakiewicz M. 2018. Samorząd gminny i jego przedsiębiorstwa użyteczności publicznej w kontekście zrównoważonego rozwoju. W: Nowe zarządzanie publiczne: Aspekty teoretyczne i praktyczne [Municipal self-government and its public utility enterprises in the context of sustainable development. In: New public management: Theoretical and practical aspects]. Ed. K. Pająk. Warszawa. Wydaw. Nauk. PWN p. 9–22.
- BAK I., CHEBA K. 2020. Zielona gospodarka jako narzędzie zrównoważonego rozwoju [Green economy as a tool of sustainable development]. Warszawa. CeDeWu. ISBN 978-83-8102-346-7 pp. 213.
- BIENIOK H., ROKITA J. 1980. Struktura organizacyjna przedsiębiorstwa [Organizational structure of the enterprise]. Katowice. Wydaw. AE w Katowicach. ISBN 83-01-04939-1 pp. 246.
- BØGELUND P. 2007. Making green discourses matter in policy-making: Learning from discursive power struggles within the policy area of car taxation. Ecological Economics. Vol. 63. Iss. 1 p. 78–92.
- Bródka S. 2021. Adaptacyjne zarządzanie środowiskiem. Podstawy teoretyczne i zastosowania [Adaptive environmental management. Theoretical basis and applications]. Warszawa. Wydaw. Nauk. PWN. ISBN 978-83-01-21338-1 pp. 321.
- Chodyński A. 2007. Wiedza i kompetencje ekologiczne w strategiach rozwoju przedsiębiorstw [Ecological knowledge and competences in enterprise development strategies]. Warszawa. Difin. ISBN 978-83-7251-789-0 pp. 213.
- CLARK II W.W., COOKE G. 2016. Smart green cities. Toward a carbon neutral world. London. Routledge. ISBN 978-1-4724-5554-3 pp. 350.
- Dobrowolski T., Hetko A. 2004. Znów o gminach i ich zadaniach [Again about communes and their tasks]. Wokół Energetyki. Nr 2 (18) p. 60.
- Fabianska K., Rokita J. 1986. Planowanie rozwoju przedsiębiorstwa [Planning of enterprise development]. Warszawa. PWE. ISBN 83-208-0547-3 pp. 218.
- Famille J., Kożuch M., Wąsowicz K. 2019. Przedsiębiorstwa użyteczności publicznej [Public utility companies]. Warszawa. CeDeWu. ISBN 978-83-8102-253-8 pp. 155.

- GIORDANO K. 2005. Planowanie zrównoważonego rozwoju gminy w praktyce [Planning of the sustainable development of the commune in practice]. Lublin. Wydaw. KUL. ISBN 83-7363-321-9 pp. 248.
- HERRSCHEL T., DIERWECHTER Y. 2020. Smart transitions in city regionalism. Territory. Politics and the quest for competitiveness and sustainability. London. Routledge. ISBN 978-0-367-66694-1 pp. 244.
- Hua A.K. 2019. Applied structural equation model in sustainable development of water resources management. Journal of Water and Land Development. No. 42 (VII–IX) p. 83–90. DOI 10.2478/jwld-2019-0048.
- JONEK-KOWALSKA I. (ed.) 2021. Miasto, przedsiębiorstwo i społeczeństwo w gospodarce 4.0. Wybrane aspekty [City, enterprise and society in the economy 4.0. Selected aspects]. Warszawa. CeDeWu. ISBN 978-83-8102-453-2 pp. 143.
- JONEK-KOWALSKA I., KAŻMIERCZAK J. (ed.) 2020. Inteligentny rozwój inteligentnych miast [Smart development of smart cities]. Warszawa. CeDeWu. ISBN 978-83-8102-407-5 pp. 224.
- JONES C. 2021. Urban economy. Real estate economics and public policy. New York. Routledge. ISBN 978-0-367-46197-3 pp. 316.
- Kuc B.R. 2008. Zarządzanie doskonałe [Perfect management]. Warszawa. Wydaw. Menedżerskie PTM. ISBN 978-83-92421-54-2 pp. 538.
- Litwińska E. 2008. Zjawisko urban sprawl jeden z wymiarów współczesnych procesów urbanizacji. W: Współczesne kierunki i wymiary procesów urbanizacji [The phenomenon of urban sprawl one of the dimensions of contemporary urbanization processes. In: Contemporary trends and dimensions of urbanization processes]. Ed. J. Słodczyk, M. Śmigielska. Opole. Wydaw. UO. ISBN 978-83-7395-314-7 pp. 347.
- Mierzejewska L. 2015. Zrównoważony rozwój miasta wybrane sposoby pojmowania koncepcji i modeli [Sustainable city development selected ways of understanding concepts and models]. Problemy Rozwoju Miast. Kwartalnik Naukowy Instytutu Rozwoju Miast. R. 12. Z. 3 p. 5–11.
- OBAIDAT M.S., NICOPOLITIDIS P. (ed.) 2016. Smart cities and homes. Key enabling technologies. Cambridge. Elsevier Inc. and Morgan Kaufmann. ISBN 978-0-12-803454-5 pp. 420.
- Obwieszczenie Marszałka Sejmu Rzeczypospolitej Polskiej z dnia 25 czerwca 2021 r. w sprawie ogłoszenia jednolitego tekstu ustawy o samorządzie gminnym [Announcement of the Marshal of the Parliament of the Republic of Poland of June 25, 2021 on the publication of the uniform text of the Act on municipal self-government]. Dz. U. 2021 poz. 1372.
- Parysek J. 2008. Urbanizacja i niektóre współczesne idee, koncepcje i modele planowania rozwoju miast. W: Współczesne kierunki i wymiary procesów urbanizacji [Urbanization and some contemporary ideas, concepts and models of urban development planning. In: Contemporary trends and dimensions of urbanization processes]. Ed. J. Słodczyk, M. Śmigielska. Opole. Wydaw. UO. ISBN 978-83-7395-314-7 pp. 347.
- Piasecki A.K. 2020. Samorząd terytorialny i wspólnoty lokalne [Local government and local communities]. Warszawa. Wydaw. Nauk. PWN. ISBN 978-83-01-20988-9 pp. 418.
- PICHLAK M. 2020. Innowacje ekologiczne, zdolności dynamiczne i efektywność organizacji [Ecological innovations, dynamic abilities and efficiency of the organization]. Warszawa. CeDeWu. ISBN 978-83-8102-297-2 pp. 226.
- ROKOCHINSKIY A., FROLENKOVA N., TURCHENIUK V., VOLK P., PRYKHODKO N., TYKHENKO R., OPENKO I. 2021. The variability of natural and climatic conditions in investment projects in the field of nature

management. Journal of Water and Land Development. No. 48 (I–III) p. 48–54. DOI 10.24425/jwld.2021.136145.

Szyja P. 2020. Wybrane aspekty efektywności energetycznej w dobie kształtowania gospodarki niskoemisyjnej w Polsce [Selected aspects of energy efficiency in the era of low-emission economy in Poland]. Warszawa. Difin. ISBN 978-83-8085-890-9 pp. 388.

ZIMNIEWICZ K. 2003. Współczesne koncepcje i metody zarządzania [Contemporary concepts and methods of management]. 2nd ed. improved. Warszawa. PWE. ISBN 83-208-1439-1 pp. 274.