
Ministry of Economy

**ACTION PLAN
FOR THE YEARS 2009–2012**

**Appendix 3
to draft Energy Policy of Poland until 2030**

Warsaw, 10 November 2009

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Priority I Improving energy efficiency

Measure 1.1	Setting the national objective of enhancing energy efficiency
Implementation method	<ol style="list-style-type: none"> 1. Establishing a legal framework for setting the national objective of enhancing energy efficiency in terms of enhancing energy saving by end users in the Act on energy efficiency – 2009. 2. Issuance of the regulations of the Council of Ministers specifying the national objective of enhancing energy efficiency – periodically since 2010. 3. Monitoring the completion of the national objective of enhancing energy efficiency – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1 and 2) • Body designated by the Act on energy efficiency (task 3)

Measure 1.2	Introducing a systemic mechanism to support measures aimed at attaining the national objective of enhancing energy efficiency
Implementation method	<ol style="list-style-type: none"> 1. Establishing the legal framework for the support system by way of the Act on energy efficiency – 2009. 2. Supporting selected projects – on an ongoing basis since 2011. 3. Monitoring the operation of the support system – on an ongoing basis since 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • Body designated by the Act on energy efficiency (tasks 2 and 3)

Measure 1.3	Stimulating development of cogeneration through support mechanisms, taking into account cogeneration from sources up to 1 MW and appropriate commune policy
Implementation method	<ol style="list-style-type: none"> 1. Preparation and gradual implementation of new principles of regulating network heat prices which would ensure elimination of the present cross-financing of combined heat and power generation with revenues from electricity generation and certificates through the implementation of the benchmarking method for the determination of heat prices – from 2010. 2. Maintaining the electricity support system in a highly efficient co-generation technology at the level ensuring profitability of investments in new generation capacity as well as predictability of this system over the next 10 years – on an ongoing basis. 3. Providing a regulation to specify the procedure for the preparation of assumptions and plans for heat, electricity, and gas fuel supply by communes as well as implementation methods for these plans, in particular the planning process will be supported by the obligation to create a ranking of potential heat supply methods and selection of the optimal option in order to ensure the

	<p>implementation of Poland's energy policy – 2011.</p> <ol style="list-style-type: none"> 4. Preparation of a report evaluating progress achieved in increasing the share of electricity generated in highly efficient co-generation in total domestic electricity generation – 2011. 5. Evaluation of the efficiency of the existing co-generation energy support system – on an ongoing basis. 6. Considering introduction of the obligation of joining the heat network for new projects implemented in areas where such networks exist into spatial development plans – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–5) • President of the Energy Regulatory Office (tasks 1, 2, and 5) • Communes (task 6)

Measure 1.4	Using mandatory energy performance certificates for buildings and apartments upon their marketing or renting
Implementation method	<ol style="list-style-type: none"> 1. Issuing authorisations for individuals authorised to prepare energy performance certificates for buildings and apartments – on an ongoing basis. 2. Participation in the EU legislation work on improving efficiency of the system of energy performance certificates of buildings – from 2009. 3. Increasing minimum standards for energy efficiency of buildings – 2010/2011.
Responsible body	<ul style="list-style-type: none"> • Minister competent for construction, spatial and housing management (tasks 1–3)

Measure 1.5	Determining energy intensity of devices and power-consuming products, introducing minimum standards for power-consuming products
Implementation method	<ol style="list-style-type: none"> 1. Participation in the EU legislation work on the design of a new label and extension of the scope of the obligation to determine energy intensity of devices – 2009–2010. 2. Implementation of new EU regulations on energy intensity designation into the Polish legal system – 2012. 3. Participation in the European Commission legislative work on the regulations implementing Directive 2005/32/EC on the ecodesign requirements for energy-using products¹ – 2009–2011. 4. Analysis of possibilities to apply incentives to buy energy-efficient products and their potential implementation – 2011–2012. 5. Informational and educational measures relating to implemented legal changes – 2012.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–5)

¹ Directive 2005/32/EC of the European Parliament and of the Council of 6 July 2005 establishing a framework for the setting of ecodesign requirements for energy-using products and amending Council Directive 92/42/EEC and Directives 96/57/EC and 2000/55/EC of the European Parliament and of the Council (OJ L 191, 22.7.2005, p. 29–58).

Measure 1.6	Committing the public sector to serve as a role model of economical energy usage
Implementation method	<ol style="list-style-type: none"> 1. Specification of the list of measures for enhancing energy efficiency applied by public sector entities – 2010. 2. Introduction of the obligation for public sector entities to save energy and inform about energy savings and measures undertaken to improve energy efficiency – 2010. 3. Introduction of the obligation to save energy by public sector entities – on an ongoing basis. 4. Extension of the scope of heat, electricity, and gas fuel assumptions and plans by planning and organising measures aimed at rationalization of energy consumption and promoting energy reducing solutions in communes – 2010. 5. Popularisation of best available practice for model role of public sector entities from other EU countries – from 2011. 6. Adjustment of the main building of the Ministry of Economy to serve as a model of energy efficiency – 2010 – 2011. 7. 8. Monitoring the implementation of the commitment to save energy imposed on public sector bodies – from 2011.
Responsible bodies ⁰	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 5, and 6) • Public sector bodies (task 3) • Communes (task 4)

Measure 1.7	Supporting investments in energy saving through preferential loans and grants from domestic and European funds
Implementation method	<ol style="list-style-type: none"> 1. Securing budget funds to support investments in energy efficiency, in particular for the implementation of the act on supporting thermo-modernisation and renovations. 2. Granting preferential loans pursuant to the Act on supporting thermo-modernisation and renovations. 3. Supporting investments in best available technologies in industry, highly efficient co-generation, reduction of electricity and heat grid loss, as well as in thermo-modernisation of buildings under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 and regional operational programmes. 4. Preferences in supporting projects bringing about positive effects in the area of energy savings with European funds. 5. Preparation and implementation of energy efficiency support programmes with environmental protection and water management funds; in particular implementation of the following: <ul style="list-style-type: none"> ○ Programme for projects aimed at introducing technologies ensuring cleaner and energy-efficient production as well as saving natural resources and primary energy; ○ Programme for projects aimed at energy saving. <p>The above tasks are implemented on an ongoing basis.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for public finance (task 1) • Minister competent for construction, spatial and housing management (task 2) • Minister competent for the economy (task 3) • Minister competent for the environment (tasks 3 and 5) • Province authorities (tasks 3 and 4) • Minister competent for regional development (tasks 3 and 4) • National Fund for Environmental Protection and Water Management (task 5)

Measure 1.8	Supporting research and development on new solutions and technologies reducing energy consumption, in all kinds of its processing and use
Implementation method	<ol style="list-style-type: none"> 1. Securing measures in the amount of at least PLN 100 million for co-financing of research and development with respect to energy efficiency in the years 2010–2012. 2. Performance of tasks stemming from the strategic research and development programme <i>Advanced Technologies for Energy Generation</i> by the National Centre for Research and Development (NCBiR). <p>The above tasks are implemented on an ongoing basis.</p>
Responsible body	<ul style="list-style-type: none"> • Minister competent for science (tasks 1 and 2)

Measure 1.9	Applying Demand Side Management techniques, stimulated by diversification of distribution prices during the day and of electricity prices on the basis of reference prices as a result of introduction of an intra-day market and sending price signals to customers with the use of remote bilateral communication via electronic meters
Implementation method	<ol style="list-style-type: none"> 1. Imposing the obligation to implement new architecture of the electricity market on the electricity transmission system operator, including implementation of the intra-day market – 2010. 2. Gradual implementation of the obligation to use electronic meters enabling transmission of price signals to energy customers – from 2011. 3. Application of the Demand Side Management (DSM) techniques which allow increasing the peak electricity consumption time ratio – on an ongoing basis. 4. Creating conditions for application of an incentive system with a view to rationalising electricity consumption through distribution tariffs (e.g. introduction of zoning to tariffs) – 2011. 5. Introducing a digital communication standard ensuring creation of conditions conducive to building a uniform all-national system of radio communication for the needs of the power sector that would ensure voice communication and data transmission both in normal times and in crisis – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 4, and 5) • President of the Government Legislation Centre (tasks 1 and 2) • President of the Energy Regulatory Office (task 4)
Commercial entities recommended for implementation:	<ul style="list-style-type: none"> • Power enterprises (trade and distribution) (task 3)

Measure 1.10	Informational and educational campaigns promoting efficient energy use
Implementation method	<ol style="list-style-type: none"> 1. Conducting informational campaigns with the use of public media. 2. Lectures, trainings, and education. 3. Distribution of information and promotion materials. 4. Setting up a website. 5. Supporting competitions relating to energy efficiency. 6. Organisation of outdoor events. <p>Task implementation period – 2009–2012.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–6) • Minister competent for the environment (tasks 1–6) • President of the Energy Regulatory Office (tasks 2 and 4)

Priority II	Enhanced security of fuels and energy supplies
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<u>Coal</u>

Measure 2.1	<p>Introducing regulations which take into account the objectives proposed under the energy policy, particularly instruments motivating to carry out preparatory work and to retain appropriate level of mining capacity</p> <p>Developing modernised pre-treatment technologies for coal to be used for energy production</p>
Implementation method	<ol style="list-style-type: none"> 1. Establishing a coal fund for maintaining proper mining capacity, including for setting up reserve fronts, by way of an act – 2010. 2. Implementation of amendments into the Environmental protection law enabling financing provided by the National Fund for Environmental Protection and Water Management (NFOŚiGW) to support modernised technologies of coal preparation for energy use (e.g. coal dust, liquid and gas fuels from coal as well as ecological coal fuels) – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • President of the Government Legislation Centre (task 2) • Minister competent for the environment (task 2)

Measure 2.2	<p>Abolishing legal barriers to making new deposits of hard coal and lignite available</p>
Implementation method	<ol style="list-style-type: none"> 1. Providing geological administration bodies with opportunities to establish rules as regards management of deposit areas which have not been subject to exploitation yet, and which are a valuable raw material reserve by introducing a planning hierarchy – by means of an amendment to the Act on spatial planning and management – 2010. 2. Specifying objective conditions for obtaining an environmental approval for mining projects – by way of amending the regulations Act of 3 October 2008 on the provision of information on the environment and its protection, participation of the society in the environmental protection and environmental impact assessment – 2010. 3. Limiting fiscal stringency related to the process of obtaining the right to geological information – 2010. 4. Amending the Geological and mining law by unambiguously including lignite deposits in deposits belonging to the State Treasury (mining property), irrespective of the way of their exploitation – 2010. 5. Introducing the possibility to acquire properties located within a mining area by companies pursuing public objectives related to lignite mining from local authorities and State Treasury without a tender in the Act on property management– 2010. 6. Simplification of the procedure of reconciliation of local spatial development plans connected with mining in relation to deposits included in public objective

	<p>investments of national importance – 2010.</p> <p>7. Considering abandoning certain charges imposed pursuant to the Act on arable land and forest area protection – 2010.</p> <p>8. Amending provisions concerning qualification of rehabilitated post-mining areas – 2010.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • Minister competent for construction, spatial and housing management (tasks 1, 5, 6, and 8) • Minister competent for the environment (tasks 2, 3, 4, and 7) • President of the Government Legislation Centre (tasks 1–8)

Measure 2.3	<p>Identifying strategic national resources of hard coal and lignite and protecting them through inclusion in spatial development plans.</p> <p>Securing access to strategic resources via investment projects implemented as public purpose investments of supra-local significance</p>
Implementation method	<ol style="list-style-type: none"> 1. Introducing provisions ensuring protection of hard coal and lignite strategic resources (documented and prospected ones) featured in geological maps into Geological and mining law and the Act on spatial planning and management, as well as specification of criteria for the selection and protection of deposits – 2010. 2. Issuing a regulation on the list of hard coal and lignite deposits of strategic importance to national energy security – 2010. 3. Introducing provisions concerning protection of selected hard coal and lignite deposits of strategic importance to national energy security from further development to the national spatial development policy and, gradually, to provincial and local spatial development plans – 2010. 4. In case there was no investor, authorisation of a competent government body or another entity to serve as a substitute investor – 2010. 5. Introduction of procedures facilitating effective control of state authorities of provisions of local spatial development plans relating to the possibility of setting up coal mining operations in areas where the presence of hard coal and lignite deposits of strategic importance to the national economy was documented – 2010. 6. Introduction of provisions ensuring protection of documented coal deposits against further infrastructure development (in particular: lignite deposits – “Legnica,” “Gubin,” and “Złoczew”; hard coal deposits – “Bzie-Dębina,” “Śmiłowice,” and “Brzezinka”) into the national spatial development policy and respective regulations – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1, 2, and 4) • Minister competent for construction, spatial and housing management (tasks 1, 3, 5, and 6) • Minister competent for the economy (tasks 1–4) • President of the Government Legislation Centre (task 1) • Minister competent for regional development (tasks 3 and 6)

Measure 2.4	Intensifying geological research to extend the coal resource base, making use of state of the art prospecting and surveying techniques
Implementation method	<ol style="list-style-type: none"> 1. Detailed survey of coal resources – on an ongoing basis. 2. Introduction of the possibility to finance the above tasks by the National Fund for Environmental Protection and Water Management (NFOŚiGW) and earmarking funds for that purpose – 2010. 3. Implementation of the <i>Programme for projects concerning research into geological structure of Poland and managing mineral resources and underground waters</i> – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1 and 2) • National Fund for Environmental Protection and Water Management (tasks 1 and 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Mining enterprises (tasks 1 and 3)

Measure 2.5	Completing organisational and structural changes
Implementation method	<ol style="list-style-type: none"> 1. Organisational and structural activities targeted at building strong business entities capable of successful competing on the market – on an ongoing basis. 2. Establishing capital groups based on coal and energy generation companies, respecting social dialogue rules and having obtained the opinion of the President of the Energy Regulatory Office, in economically justified cases.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • Minister competent for the Treasury (task 2)

Measure 2.6	Supporting the industrial use of methane released when extracting hard coal in mines
Implementation method	<ol style="list-style-type: none"> 1. Establishing a system supporting industrial use of methane released when extracting hard coal in mines by means of establishing certificates of origin for electricity generated from methane – 2010. 2. Efficiency analysis of the implemented system supporting methane-based electricity production – 2011. 3. Potential preparation of the proposal to correct/supplement the support system based on the results of the above analysis – 2011/2012.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3)

Measure 2.7	Introducing technology solutions which allow recovery of methane from ventilation air pumped out of hard coal mines
Implementation method	<ol style="list-style-type: none"> 1. Evaluation of the possibility to use globally available technologies of methane recovery from ventilation air – 2010. 2. Obtaining funds for the implementation of the above technology from European funds and the National Fund for Environmental Protection and Water Management (NFOŚiGW) – on an ongoing basis. 3. Considering the option and potential inclusion of work on new technologies of methane recovery from ventilation air into the strategic research and development programme “Advanced technologies of energy generation” and the National Research Programme – 2011.
Responsible body	<ul style="list-style-type: none"> • Minister competent for science (task 3)
Commercial entities recommended for implementation:	<ul style="list-style-type: none"> • Coal companies (tasks 1 and 2)

Measure 2.8	Obtaining funds for development of the mining industry through privatisation of coal companies whose legitimacy, the volume of shares, and the IPO date will be analysed in terms of energy policy objectives
Implementation method	<ol style="list-style-type: none"> 1. Privatisation of mining companies observing the principles of social dialogue, assuming that funds generated by privatisation will be used to maintain production capacity. 2. Simultaneous obtaining of funds for initial and replacement projects that serve maintaining the output level in order to improve national energy security by way of the following: <ul style="list-style-type: none"> ○ Loans from international financial institutions, e.g. the World Bank; ○ Issuance of bonds by mining companies; ○ Seeking alternative financing methods. <p>The above tasks are implemented on an ongoing basis.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the Treasury (task 1) • Minister competent for the economy (task 1)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Coal company boards (task 2)

Measure 2.9	Supporting research and development of technologies permitting to use coal for liquid and gas fuels production, mitigating the negative environmental impact of processes of obtaining energy from coal as well as coal fuel cells technologies
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Implementation method	<ol style="list-style-type: none"> 1. Promoting pilot investment projects in coal gasification and coal liquefaction on the assumption that fuel production must be a commercial venture – on an ongoing basis. 2. Carrying out tasks stemming from the strategic research and development programme “Advanced technologies of energy generation” in respect of coal-based production of liquid and gas fuels as well as coal fuel cells by the National Research and Development Centre – on an ongoing basis. 3. Promoting the establishment of research and industrial consortia in order to implement prototype semi-industrial installations – on an ongoing basis. 4. Making use of the possibility to support innovative projects under the Operational Programme “Innovative Economy” for the years 2007–2013 – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • Minister competent for science (tasks 2 and 3) • Research and development entities (tasks 2–4)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Commercial enterprises (tasks 3 and 4)

Measure 2.10	Retaining the competence of the minister in charge of the Treasury in respect of mining companies by the Minister of Economy
Implementation method	<ol style="list-style-type: none"> 1. Extending the application of art. 20 of the Act of 7 September 2007 on the functioning of the hard coal mining industry in the years 2008–2015 until 2030 – deadline: 2010.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy

Gas

Measure 2.11	Appropriate tariff policy encouraging investment in pipeline infrastructure (gas transmission and distribution)
Implementation method	<ol style="list-style-type: none"> 1. Devising methodology of transferring the cost of using new elements of infrastructure of particular significance to national energy security and diversification of supplies, as well as security of the national gas system, to all gas system users (e.g. by transferring a portion of costs to transmission charges) – 2010. 2. Devising and implementing a model of regulation for infrastructure companies operating within the gas sector, including introduction of model rules of calculating operational costs of a business, as well as the rules of calculating depreciation and interest on capital based on the market value of assets used to pursue a business – 2011. 3. Supporting extension of gas infrastructure in areas where gas supply is scarce and in areas where wind power generation and dispersed co-generation is planned, particularly under the <i>Operational Programme Infrastructure and Environment</i> – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3) • President of the Energy Regulatory Office (tasks 1 and 2) • Minister competent for regional development (task 3)

Measure 2.12	Building a terminal for receiving liquefied gas (LNG)
Implementation method	<ol style="list-style-type: none"> 1. Concluding contracts for liquefied gas supplies to the LNG terminal – 2009. 2. Performing necessary preparatory and reconciliation work as regards environmental impact and construction permit – 2010. 3. Construction of an external port, a breakwater, and a transshipment station – 2010–2012. 4. Obtaining the concession for LNG regasification – 2012. 5. Construction of regasification liquefied natural gas terminal in Świnoujście together with a connecting network – 2010–2014. 6. Launching trainings for personnel managing sea transport of liquefied natural LNG gas in Świnoujście sea port – 2009. 7. Submitting applications for project co-financing from <i>Operational Programme Infrastructure and Environment</i> and the European Economic Plan for Recovery – 2009/2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the Treasury (tasks 1, 2, 3, and 5) • Local government (task 2) • Minister competent for maritime economy (task 3) • Szczecin Maritime Office (task 3)

	<ul style="list-style-type: none"> Maritime University of Szczecin (task 6)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> PGNiG S.A. and other entities (task 1) Polskie LNG sp. z o.o. (tasks 2, 5, and 7) Zarząd Morskich Portów Szczecin i Świnoujście S.A. [Managing Company of Szczecin and Świnoujście Ports, Joint Stock Company] (task 3) Commercial companies or Polskie LNG Sp. z o.o. (task 4)

Measure 2.13	Concluding arm's length contracts for diversified natural gas supplies to the liquefied gas reception terminal and from the north
Implementation method	<ol style="list-style-type: none"> 1. Concluding arm's length contracts for natural gas supplies dedicated to the liquefied gas reception terminal and from the north – from 2009. 2. Providing support to business entities responsible for concluding contracts in negotiations with foreign partners – on an ongoing basis. 3. Creating appropriate conditions for gas supplies with the use of the regasification terminal and for gas supplied from the north by means of tariff and regulation policy – 2010. 4. Supporting sea transport of liquefied natural gas by commercial entities – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> Minister competent for the economy (task 2) Minister competent for foreign affairs (task 2) President of the Energy Regulatory Office (task 3) Minister competent for infrastructure (task 4)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> PGNiG S.A. (task 1)

Measure 2.14	Establishing sustainable management policy for domestic gas resources to allow extension of natural gas reserve base in the territory of Poland
Implementation method	<ol style="list-style-type: none"> 1. Intensification of geological research with a view to extending the natural gas resource with the use of state of the art prospecting and surveying techniques – on an ongoing basis. 2. Establishing a system which stimulates prospecting and surveying in Poland based on model solutions applied in other countries – 2012. 3. Identification of national strategic deposits and their protection by means of their inclusion in spatial development plans – 2010. 4. Policy support to activities related to gas deposit prospecting and surveying carried out by companies from the Polish crude oil sector in the Baltic Sea shelf – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> Minister competent for the environment (tasks 1 and 3) Minister competent for the economy (tasks 2, 3, and 4) Minister competent for construction, spatial and housing management (task 3)

	<ul style="list-style-type: none"> • Minister competent for the Treasury (task 4) • Minister competent for foreign affairs (task 4) • Minister competent for regional development (task 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Commercial companies (task 1)

Measure 2.15	Investments which allow extending natural gas extraction in the territory of Poland
Implementation method	<ol style="list-style-type: none"> 1. Gradual resignation from extraction cost regulation after a detailed market analysis – from 2010. 2. Drafting regulations resulting in acceleration of the use of documented gas and crude oil deposits, including simplification of the procedure for granting prospecting, surveying, and exploitation concessions, <i>inter alia</i> by reducing the scope of required documents and reconciliations – 2010. 3. Concession policy encouraging investment in domestic deposits – on an ongoing basis. 4. Ownership policy encouraging investment in domestic deposits – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • President of the Energy Regulatory Office (task 1) • Minister competent for construction, spatial and housing management (task 2) • Minister competent for the environment (tasks 2 and 3) • Minister competent for the Treasury (task 4)

Measure 2.16	Diversification of supplies by building a transmission system for natural gas supplies from the north, west, and south, as well as building connections to primarily meet the requirement of supply sources diversification
Implementation method	<ol style="list-style-type: none"> 1. Building the transmission system to allow natural gas supplies from the north, west, and south – from 2010. 2. Construction of interconnectors – from 2009. 3. Monitoring the progress of investment projects and periodical reports on the progress in the linear infrastructure development – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 3) • Minister competent for the Treasury (task 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • OGP Gaz-System S.A. (tasks 1 and 2) • Commercial companies (task 2)

Measure 2.17	Polish companies winning access to natural gas deposits located outside Poland
Implementation method	<ol style="list-style-type: none"> 1. Providing diplomatic support to businesses pursuing investment projects in individual countries – on an ongoing basis. 2. Investigating into the possibility to provide businesses pursuing investment projects with government guarantees and financial support – 2009. 3. Concluding relevant international agreements in order to avoid double taxation related to running an extraction business outside Poland – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the Treasury (task 1) • Minister competent for the economy (tasks 1–3) • Minister competent for foreign affairs (task 1) • Minister competent for public finance (tasks 2 and 3)

Measure 2.18	Supporting investments in infrastructure with the use of European funds
Implementation method	<ol style="list-style-type: none"> 1. Supporting infrastructural investments in the area of transmission, distribution, and storage of natural gas under <i>Operational Programme Infrastructure and Environment</i> and regional operational programmes – on an ongoing basis. 2. Actions taken by Polish administration on the forum of the European Union aimed at creating conditions for building infrastructure ensuring energy security of the European Union based on Community funds – on an ongoing basis. 3. Replacing the TEN-E system with one that allows financing gas infrastructure projects which are key to the EU, with particular emphasis placed on projects aimed at opening new supply routes, considering that the projects should not pose a threat to security of energy supplies of any EU Member State – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, and 3) • Minister competent for regional development (task 1) • Province authorities (task 1) • Minister competent for foreign affairs (task 2)

Measure 2.19	Streamlining the crisis response mechanism
Implementation method	<ol style="list-style-type: none"> 1. Committing all companies dealing in natural gas transmission and distribution to have in place plans for introducing restrictions in gas consumption by amending the Energy Law or Act on stocks of crude oil, petroleum products and natural gas, the principles of proceeding in circumstances of a threat to the fuel security of the State and disruption on the petroleum market – 2010. 2. Plausibility analysis of improving efficiency of restrictions in natural gas consumption by amending relevant legal regulations – 2009–2010. 3. Participation in amending Directive 2004/67/EC concerning measures to safeguard security of natural gas supply – 2010.

	<ol style="list-style-type: none"> 4. Implementation of new legal regulations concerning crisis response – 2010. 5. Working out a coherent and efficient design of the Early Warning Mechanism in the framework of dialogue between the EU and Russia to include crude oil, natural gas, and electricity, as well as appropriate provisions of the PostPCA – 2009/2010. 6. Working out a coherent and efficient design of the Early Warning Mechanism in the framework of dialogue between the EU and transit countries and other countries supplying energy carriers to include crude oil, natural gas, and electricity – 2009/2010. 7. Devising new and applying the existing instruments to ensure secure and uninterrupted supplies of hydrocarbons to the EU from supplier and transit countries – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 3,4, 5, 6, and 7) • President of the Government Legislation Centre (task 1) • Companies obliged to maintain gas reserves (task 4)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Companies obliged to maintain gas reserves (task 4)

Measure 2.20	Securing state interests in strategic companies of the gas sector
Implementation method	<ol style="list-style-type: none"> 1. Securing interests of State Treasury in EuRoPol Gaz S.A. in the framework of exercising owner's rights resulting from ownership of shares in PGNiG S.A. and personal rights due to the Treasury pursuant to the company's articles of association – on an ongoing basis. 2. Termination of the contract of lease for the transmission system between PGNiG S.A. and OGP GAZ-SYSTEM S.A. by transferring a dividend in kind – 2011. 3. Considering recapitalisation of PGNiG S.A. by contributing shares of other companies, if required by Poland's energy security.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the Treasury (tasks 1–3)

Measure 2.21	Investment incentives for building storage space (by appropriate tariff structure and ensuring return on invested capital)
Implementation method	<ol style="list-style-type: none"> 1. Introduction of monitoring of storage space extensions and projects consisting in the construction of new reservoirs by amending the Act on stocks of crude oil, petroleum products and natural gas, the principles of proceeding in circumstances of a threat to the fuel security of the State and disruption on the petroleum market – 2009. 2. Creating favourable conditions for the construction of storage space by relevant tariff and regulation policy, in particular by applying increased interest on capital invested in new projects – 2010.

Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • President of the Government Legislation Centre (task 1) • President of the Energy Regulatory Office (task 2)
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Measure 2.22	Legislative measures aimed at lifting barriers to investments, particularly in respect of large investment projects in infrastructure (warehouses, LNG infrastructure, gas compressor stations, mines, etc.) and linear investments
Implementation method	<ol style="list-style-type: none"> 1. Preparation of assumptions to the act facilitating linear investments in the gas sector – 2009. 2. Preparing a draft act facilitating linear investments – 2010. 3. Devising draft regulations facilitating procedures for implementation of linear investments in the gas sector, including those which relate to property management, administrative proceedings, spatial planning and development, protection of agricultural and forest land, environmental protection, and nature conservation – 2010. 4. Implementation of new regulations aimed at lifting barriers to investment – from 2011. 5. Monitoring the progress of investment projects and drafting periodical reports on the progress in linear infrastructure development – on an ongoing basis. 6. Imposing the obligation to carry out regular demand studies on gas system operators and entities which intend to take up new large investment projects in gas sector infrastructure – 2011. 7. Introducing the obligation to apply the open season procedure prior to launching large investment projects in gas sector infrastructure – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–7) • President of the Government Legislation Centre (task 2) • Minister competent for construction, spatial and housing management (tasks 3–4) • Minister competent for the environment (tasks 3 and 4) • Minister competent for rural development (tasks 3 and 4) • President of the Energy Regulatory Office (tasks 5 and 6)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Operators of transmission, storage, and distribution systems (tasks 5 and 6)

Measure 2.23	Further pilot work on making methane from hard coal deposits available
Implementation method	<ol style="list-style-type: none"> 1. Consideration of methane extraction from hard coal deposits – 2010. 2. Performing an economic analysis aimed at selecting the best available technology adapted to Polish conditions – 2009–2010.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2)

Crude oil and liquid fuels

Measure 2.24	Building infrastructure to allow transport of crude oil from other regions of the world, <i>inter alia</i> from the Caspian Sea region within the Euro-Asian Oil Transportation Corridor project
Implementation method	<ol style="list-style-type: none"> 1. Having performed the necessary analyses, making a decision on building and the project scope of the Odessa-Brody-Plock-Gdansk pipeline – 2010. 2. Diplomatic support on the international scene – on an ongoing basis. 3. Using EU funds under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 – on an ongoing basis. 4. Taking actions aimed at working out tools to support investment projects at the level of the European Union, <i>inter alia</i> by extending the TEN-E system to include oil infrastructure – 2010. 5. Taking actions aimed at providing investors with ways to obtain support from Community funds and initiatives such as the Eastern Partnership and Baltic Interconnection Plan with a view to building infrastructure of significance to Poland’s security – from 2009.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 2, 3, 4, and 5) • Minister competent for foreign affairs (task 2) • Minister competent for regional development (task 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Przedsiębiorstwo Eksploatacji Rurociągów Naftowych "Przyjaźń" Spółka Akcyjna (Oil Pipeline Operation Company "Przyjaźń" Joint Stock Company) (task 1) • International Pipeline Company "Sarmatia" or another entity designated to execute the task (tasks 1, 3, and 5)

Measure 2.25	Supporting actions of Polish companies aimed at intensification of prospecting and enhancing national exploitation on land, in the Baltic Sea shelf and outside Poland
Implementation method	<ol style="list-style-type: none"> 1. Measures to support Polish companies on the international scene through legal and economic support for investment projects of strategic importance to national energy security and for companies with State ownership investing in projects which envisage prospecting and extraction abroad. 2. Coordination of investment plans of companies with State ownership, taking into account investment risk analysis. 3. Implementation by companies with State ownership of internal information systems for planning and execution of investment projects in prospecting and exploitation of crude oil resources as well as supporting initiatives and international projects in this area. 4. Concluding relevant international agreements in order to avoid double taxation related to running an extraction business outside Poland. <p>The above tasks are implemented on an ongoing basis.</p> <ol style="list-style-type: none"> 5. Investigating into the possibility to provide businesses pursuing investment projects with government guarantees and financial support – 2009.

Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–5) • Minister competent for foreign affairs (task 1) • Minister competent for public finance (tasks 1, 4, and 5) • Minister competent for the Treasury (tasks 2–3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Oil sector companies (task 3)

Measure 2.26	Extending transmission, transshipment, and storage infrastructure (including caverns) for crude oil and liquid fuels
Implementation method	<ol style="list-style-type: none"> 1. Introduction of the obligation to monitor storage capacity and projects consisting in the construction of new storage tanks by way of amending the Act on stocks of crude oil, petroleum products and natural gas, the principles of proceeding in circumstances of a threat to the fuel security of the State and disruption on the petroleum market – 2009/2010. 2. Monitoring storage development process – on an ongoing basis. 3. Construction of underground crude oil and fuel storages in salt reservoirs (cavern storages) – from 2010. 4. Construction of pipeline cross-border connections for transmission of liquid fuels – from 2010. 5. Monitoring the progress of investment projects on the basis of periodical reports submitted by entities which execute the projects – on an ongoing basis. 6. Supporting measures aimed at devising a joint mechanism to support the development of storage and transmission infrastructure in limitrophe states of the EU in order to allow joint response of EU Member States in crisis – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 5, and 6) • President of the Government Legislation Centre (task 1) • Office of the Committee for European Integration (task 6)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • OLPP, PERN, Lotos co-operating with other entities (tasks 3 and 4)

Measure 2.27	Application of owner’s supervision tools of the State Treasury to stimulate and monitor execution of projects in respect of security of crude oil and liquid fuel supplies
Implementation method	<ol style="list-style-type: none"> 1. Retaining direct and indirect State Treasury shares in PERN “Przyjaźń” S.A., OLPP Sp. z o.o., and PKN Orlen S.A. at least at the current level.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the Treasury (task 1)

Measure 2.28	Legislative changes concerning liquid fuel reserves, particularly lifting the obligation of physical maintenance of reserves by enterprises in exchange for a special purpose fee intended for maintenance of reserves by a public law entity
Implementation method	<ol style="list-style-type: none"> 1. Analysis of the storage capacity market in Poland as regards demand for intervention reserves and state reserves in the context of amendment to principles of mandatory reserves maintenance – 2009/2010. 2. Preparation of the amendment draft of the Act on stocks of crude oil, petroleum products and natural gas, the principles of proceeding in circumstances of a threat to the fuel security of the State and disruption on the petroleum market as regards: <ul style="list-style-type: none"> ○ Replacing the system of physical maintenance of mandatory reserves by commercial entities covered by the act with financial obligations; ○ Designating the entity responsible for mandatory crude oil and fuel reserves for crude oil companies; ○ Devising a schedule for the transition to a new system; ○ Devising of the system financing form (taking into account timing of reserves take-over from companies, related costs, and charging principles). <p>Task execution period – 2009/2010.</p>
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–2)

Measure 2.29	Lifting barriers to development of fuel infrastructure and supporting investment projects in infrastructure with the use of European funds
Implementation method	<ol style="list-style-type: none"> 1. Preparation of assumptions to the act facilitating linear investments – 2009/2010. 2. Preparing draft act facilitating linear investments – 2010. 3. Devising draft regulations facilitating procedures for implementation of linear investments, including those which relate to property management, administrative proceedings, spatial planning and development, protection of agricultural and forest land, environmental protection, and nature conservation – 2010. 4. Implementation of new regulations – from 2011. 5. Monitoring the progress of investment projects and drafting periodical reports on the progress in linear infrastructure development – on an ongoing basis. 6. Supporting investments in infrastructure in the area of transmission and storage of crude oil and fuels using EU funds under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–6) • President of the Government Legislation Centre (task 2) • Minister competent for construction, spatial and housing management (tasks 3–4) • Minister competent for the environment (tasks 3 and 4) • Minister competent for rural development (tasks 3 and 4) • Minister competent for regional development (task 6)

Measure 2.30	Ensuring fuel transport by sea
Implementation method	<ol style="list-style-type: none"> 1. Implementation and enforcement of international standards and requirements concerning sea navigation and sea ports – on an ongoing basis. 2. Development of training and enhancing qualifications of ship personnel in respect of handling fuel transshipment and transport by sea – on an ongoing basis. 3. Extending fuel transshipment and storage capacities of sea ports in accordance with the <i>Strategy of the development of sea ports until 2015</i> – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for maritime economy (tasks 1, 2, and 3) • Minister competent for the Treasury (task 3) • Field maritime administration bodies (task 1) • Maritime Universities (task 2)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Sea port managing companies (task 3)

Electricity and heat

Measure 2.31	Imposing an obligation to prepare development plans of the transmission and distribution grid on grid operators, with particular indication of preferred locations of new generation capacity and the costs of their connection
Implementation method	<ol style="list-style-type: none"> 1. Modification of the statutory obligation to prepare development plans of the transmission and distribution grid (amendment of the Energy Law) taking into account: <ul style="list-style-type: none"> ○ The need for coordination of development plans of the transmission and distribution grid; ○ Including preferred locations of new generation capacity and the cost of their connection to electricity grids in plans (to facilitate investment planning); ○ Updating and publishing of grid development plans and location of generation capacity by relevant grid operators at least once every three years. <p>Task implementation deadline – 2011.</p> 2. Introduction of the mechanism of transparent participation of operators in tenders for the connection of new generation units in the preferred location – 2011. 3. Implementation of modified regulations concerning the obligation to prepare development plans of the transmission and distribution grid – 2012. 4. Preparing a programme of government tasks concerning the development of transmission grid and presenting it to the Council of Ministers – 2010. 5. Using regulatory tools with a view to monitoring implementation of grid development plans – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, and 4) • President of the Government Legislation Centre (task 1) • President of the Energy Regulatory Office (task 5)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Operators of transmission and distribution systems (task 3)

Measure 2.32	Legislative measures aimed at lifting barriers to investments, particularly linear investments
Implementation method	<ol style="list-style-type: none"> 1. Preparing assumptions for amendments to regulations facilitating linear investments in the energy sector – 2009/2010. 2. Preparing a draft act facilitating linear investments in the energy sector – 2010. 3. Devising draft regulations facilitating procedures applied for linear investments in the energy sector and enabling the regulation of the legal status and exploitation of the existing grid property, including regulations which relate to

	<p>property management, administrative proceedings, spatial planning and development, protection of agricultural and forest land, environmental protection and nature conservation – 2010.</p> <p>4. Implementation of new regulations – from 2011.</p> <p>5. Monitoring the progress of investment projects and drafting periodical reports on the progress in linear infrastructure development – on an ongoing basis.</p> <p>6. Consideration of validity and potential implementation of solutions aimed at conferring public purpose status to investment projects consisting in construction of power stations as well as power and heat stations – 2011.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–6) • President of the Government Legislation Centre (task 2) • Minister competent for construction, spatial and housing management (tasks 2–3) • Minister competent for the environment (tasks 2 and 3) • Minister competent for rural development (tasks 2 and 3)

Measure 2.33	Introducing long term contracts for system regulatory services covering intervention reserves and rebuilding supply to the national power system by the transmission system operator
Implementation method	<p>1. Introducing the possibility for Transmission System Operators to conclude long term contracts for system services covering intervention reserves and rebuilding supply to the national power system, particularly by adjusting Public Procurement Law to contracts for the said system services – 2010.</p> <p>2. Concluding contracts for the said system services – 2012.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • President of the Public Procurement Office (task 1) • President of the Government Legislation Centre (task 1)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Transmission system operators (task 2)

Measure 2.34	The transmission system operator announcing tenders for intervention capacities essential to ensuring safety of the power system operation
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Implementation instruments	<ol style="list-style-type: none"> 1. Specification of the intervention capacity necessary until 2030 – 2010. 2. Specification of technical conditions required from intervention units as well as preferred locations of these units within the system – 2010. 3. Introducing regulations to allow participation of the President of the Energy Regulatory Office in the preparation of Terms of Reference and factual participation in tenders for intervention capacity – 2011. 4. Introducing incentives to maximise economic efficiency of intervention capacity purchase – 2011. 5. Including the costs resulting from intervention capacity purchase in revenues from regulated activities – 2011. 6. Announcing a tender for intervention capacity – 2010/2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 3 and 4) • President of the Energy Regulatory Office (tasks 3 and 5)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Transmission system operator (tasks 1, 2, 5, and 6)

Measure 2.35	Reconstruction and reinforcement of the existing power lines and building new ones, particularly those enabling cross-border electricity exchange with neighbouring countries
Implementation method	<ol style="list-style-type: none"> 1. Identification of new and replaced cross-border grid investment projects as well as analysis of possibilities to obtain support for their implementation, <i>inter alia</i> under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 – 2009/2010. 2. Preparation of legal solutions enabling financing for this type of investment projects from funds other than TSO and DSO – 2011. 3. Devising development plans for new power lines and cross-border connections, taking into account the eastern direction and specification of plan elements which may be financed externally – 2010. 4. Supporting investments in power grid (including the Poland-Lithuania power connection) under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 and regional operational programmes – on an ongoing basis. 5. Monitoring grid investment project implementation under Operational Programmes – on an ongoing basis until project completion. 6. Initiative consisting in establishing a new financial instrument of the European Union to support building cross-border connections with Poland’s eastern neighbours – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 4, and 5) • Minister competent for regional development (tasks 4 and 5) • Province authorities (tasks 4 and 5) • Office of the Committee for European Integration (task 6)
Commercial entities recommended	<ul style="list-style-type: none"> • Operators of transmission and distribution systems (tasks 2 and 3)

for implementation	
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Measure 2.36	Establishing methodology for calculating return on invested capital as an element of cost justified in transmission and distribution tariffs for investments in grid infrastructure
Implementation method	<p>Creating stable perspectives for investments in transmission and distribution infrastructure by way of the following:</p> <ol style="list-style-type: none"> 1. Devising an algorithm of regulated activity in the area of transmission and distribution grid to be applied by power companies and the President of the Energy Regulatory Office – 2010. 2. Introducing incentives to maximise economic efficiency of grid-related operations – 2011. 3. Preparing legal solutions (Energy Law and tariff regulations) – 2011. 4. Implementation of new regulations – 2012. 5. Monitoring operation of the system – on an ongoing basis after implementation of the said solutions.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3) • President of the Energy Regulatory Office (tasks 1,2, 4, and 5)

Measure 2.37	Introducing amendments into the Energy Law consisting in defining the responsibility of local government bodies for drafting local supply assumptions for plans and plans for heat, electricity, and gas fuel supply
Implementation method	<ol style="list-style-type: none"> 1. Specifying the method of enforcing responsibility of local government bodies for the preparation and implementation of assumptions and plans for heat, electricity, and gas fuel supply (amendment of the Energy Law) – 2011. 2. Considering of implementation of changes in legislation to enable planning of heat, electricity, and gas fuel demand at the poviats or province level – 2011. 3. Implementation of regulations – 2012. 4. Considering and potential introduction of the obligation to reconcile spatial development plans by gminas with power utility suppliers – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–4) • President of the Government Legislation Centre (task 1) • Minister competent for construction, spatial and housing management (task 4)

Measure 2.38	Transferring owner’s supervision over the operator of electricity transmission system (PSE Operator S.A.) into the competence of the Minister of Economy
Implementation instruments	<ol style="list-style-type: none"> 1. Transferring owner’s supervision over PSE Operator S.A. into the competence of the Minister of Economy – 2009/2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy • Minister competent for the Treasury

Measure 2.39	Retaining a majority stake in PGE Polska Grupa Energetyczna S.A. and a controlling stake in Tauron Polska Energia S.A. at the level which ensures retaining owner's supervision by the State Treasury
Implementation method	1. Retaining owner's supervision of the State Treasury with a view to active supervision of investment policy and economic efficiency towards these entities.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the Treasury • Minister competent for the economy

Measure 2.40	Introducing a qualitative element into transmission and distribution tariffs to which transmission and distribution system operators would be entitled if they reduced failure frequency rates and maintained them at levels specified by the President of the Energy Regulatory Office for the given grid type
Implementation method	<ol style="list-style-type: none"> 1. Preparing a mechanism to stimulate retaining high reliability by introducing incentives for power grid operators to reduce failure frequency rates and retain them at levels specified by the President of the Energy Regulatory Office for the given grid type into tariffs – 2011. 2. Preparing amendments to regulations (Energy Law and executive regulations) – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • President of the Government Legislation Centre (task 2) • President of the Energy Regulatory Office (task 1)

Measure 2.41	Changing regulation mechanisms by introducing methods of heat price-fixing with the use of reference prices and incentives to optimise the heat supply cost
Implementation method	<ol style="list-style-type: none"> 1. Preparing new principles of regulating network heat prices by introducing a comparative method – 2010. 2. Gradual implementation of the new principles – from 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • President of the Energy Regulatory Office (tasks 1 and 2)

Measure 2.42	Preferential treatment of combined generation as the technology recommended for building new generation capacity
Implementation method	<ol style="list-style-type: none"> 1. Including the use of local utility heat capacity in investment plans of companies with State ownership by building combined units – on an ongoing basis. 2. Retaining the system to support electricity generation in highly efficient cogeneration. 3. Using commitments in respect of preparing plans of supplying communes in heat, electricity, and gas fuels to replace exhausted unbundled heat sources with cogeneration units – on an ongoing basis.

	<p>4. Plausibility analysis and potential supplementing of the system of issuing permits for new electricity or heat generation capacity with the obligation to submit a plausibility analysis of using highly efficient cogeneration – 2011.</p> <p>5. Applying preferences for cogeneration units in tenders for new capacity announced by the President of the Energy Regulatory Office.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the Treasury (task 1) • Minister competent for the economy (task 2) • Local government bodies (task 3) • Minister competent for construction (task 4) • President of the Energy Regulatory Office (task 5)

Priority III	Diversification of the electricity generation structure by introducing nuclear energy
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Measure 3.1	Establishing an institutional basis for preparing and implementing the Polish nuclear power programme
Implementation method	<ol style="list-style-type: none"> 1. Establishing a legal framework for functioning of the institution preparing and implementing the Polish Nuclear Power Programme – 2010. 2. Establishing and organisation of the institution responsible for the Polish Nuclear Power Programme – 2011. 3. Providing the above institution with assets required to launch its activities – 2011. 4. Supplementing the personnel of the above institutions and providing funds necessary for their operation– 2011/2012 (the necessary funds of PLN 6,000,000 for 2011 and PLN 6,000,000 for 2012).
Responsible bodies	<ul style="list-style-type: none"> • Government Plenipotentiary for Polish nuclear power (task 1, 2, and 4) • Minister competent for the economy (tasks 1, 2, and 4) • Appointed owner’s supervision body (task 3)

Measure 3.2	Defining essential amendments to the legal framework for implementing the Polish nuclear power programme, preparing and coordinating implementation of the amendments
Implementation method	<ol style="list-style-type: none"> 1. Preparation of legal analyses comparing the existing legal systems as regards the use of nuclear energy to a peaceful purpose – 2009. 2. Preparing draft legal acts enabling the implementation of the Polish Nuclear Power Programme and earmarking budget funds for that purpose of PLN 100,000 for 2010 and PLN 65,000 for 2011 – 2009/2010. 3. Participation in the work of the Parliament on legal acts relating to nuclear power – 2010. 4. Coordinating the implementation of amendments to legal acts with respect to nuclear power – from 2010.
Responsible bodies	<ul style="list-style-type: none"> • Government Plenipotentiary for Polish nuclear power (tasks 1–4) • Minister competent for the economy (tasks 1–4) • President of the National Atomic Energy Agency (task 2)

Measure 3.3	Preparing a draft of the Polish nuclear power programme to constitute the basis for public consultations; holding the consultations and submitting the Polish nuclear power programme for approval by the Council of Ministers
Implementation method	<ol style="list-style-type: none"> 1. Earmarking state budget funds of PLN 1,500,000 for 2010 for preparation and consultation on the draft Polish Nuclear Power Programme – 2009. 2. Preparing draft Polish Nuclear Power Programme taking into account, <i>inter alia</i>, the strategy for management of spent nuclear fuel and radioactive waste,

	<p>including its financing – 2010.</p> <ol style="list-style-type: none"> 3. Social consultations and strategic environmental impact analysis of the draft Polish Nuclear Power Programme – 2010. 4. Submission of the draft Polish Nuclear Power Programme to the Council of Ministers for approval – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for public finance (task 1) • Government Plenipotentiary for Polish nuclear power (tasks 1, 2–4) • Minister competent for the economy (tasks 1, 2–4)

Measure 3.4	Preparing the National Atomic Energy Agency to execute nuclear and radiological supervision of the nuclear power sector
Implementation method	<ol style="list-style-type: none"> 1. Preparing the organisational structure, financing principles, and tasks of the National Atomic Energy Agency to execute nuclear and radiological supervision for the needs of the nuclear power sector – 2010/2011. 2. Completing the process of adapting the National Atomic Energy Agency – 2011. 3. Including the Central Laboratory for Radiological Protection in the structures of nuclear and radiological supervision and earmarking State budget funds for that purpose of PLN 3,600,000 for 2011 – 2010. 4. Supplementing the personnel of the above institution, providing funds necessary for its operation, and securing State budget funds for that purpose of PLN 450,000 for 2010 and PLN 600,000 for 2011 – 2010/2011.
Responsible bodies	<ul style="list-style-type: none"> • President of the National Atomic Energy Agency (task 1) • Government Plenipotentiary for Polish nuclear power (tasks 1–3) • Minister competent for the environment (tasks 1, 2, and 4) • Minister competent for the economy (task 3)

Measure 3.5	Implementing the personnel training programme for institutions dealing with nuclear power
Implementation method	<ol style="list-style-type: none"> 1. Securing State budget funds of PLN 720,000 for 2009; PLN 10,080,000 for 2010; PLN 7,200,000 for 2011; and PLN 7,200,000 for 2012 for implementation of the personnel training programme – 2009–2011 r. 2. Analysing the financing methods of nuclear power sector personnel training programme under Operational Programmes (particularly Operational Programme “Human Capital”) as well as plausibility of providing funds of PLN 31,680,000 for this purpose from European funds for the years 2010–2013 – 2009/2010. 3. Signing contracts with foreign institutions concerning co-operation in personnel training – 2009/2010. 4. Recruitment of candidates to be trained – from 2009. 5. Furthering knowledge of university teachers and personnel for institutions responsible for the Polish Nuclear Power Programme – from 2009.
Responsible bodies	<ul style="list-style-type: none"> • Government Plenipotentiary for Polish nuclear power (tasks 1, 3–5) • Minister competent for the economy (tasks 1, 3–5)

	<ul style="list-style-type: none"> • Minister competent for regional development (task 2) • Minister competent for tertiary education (tasks 4 and 5)
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Measure 3.6	Preparing and holding an informational and educational campaign on the Polish Nuclear Power Programme
Implementation method	<ol style="list-style-type: none"> 1. Preparing the guiding idea of the informational campaign – 2009. 2. Preparing informational materials and carrying out the campaign – from 2010 (PLN 10,000,000 for 2010; PLN 10,000,000 for 2011; PLN 10,000,000 for 2012). 3. Preparing educational materials (PLN 5,000,000) and their distribution in schools – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Government Plenipotentiary for Polish nuclear power (tasks 1, 2, and 3) • Minister competent for the economy (tasks 1 and 2) • Minister competent for education (task 3)

Measure 3.7	Location analyses for nuclear energy plants
Implementation method	<ol style="list-style-type: none"> 1. Earmarking State budget funds of PLN 30,000,000 for 2010; PLN 20,000,000 for 2011; and PLN 20,000,000 for 2012; and additionally funds provided by the National Fund for Environmental Protection and Water Management for location analysis and studies for nuclear power plants – 2009–2011. 2. Analysis of the existing information on the locations of nuclear power plants investigated into heretofore and the proposed new locations – 2009/2010. 3. Selection of locations complying with legal conditions for the construction of a nuclear power plant – 2010. 4. Carrying out studies and analyses of the selected locations of a nuclear power plant – from 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (task 1) • National Fund for Environmental Protection and Water Management (task 1 – the part concerning geological surveys) • Government Plenipotentiary for Polish nuclear power (tasks 1, 2–4) • Minister competent for the economy (tasks 1, 2–4)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Investors selected to build nuclear power plants (task 4)

Measure 3.8	Location analyses for the radioactive cemetery, its design and construction preparations
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Implementation method	<ol style="list-style-type: none"> 1. Earmarking State budget funds of PLN 8,000,000 for 2010; PLN 8,000,000 for 2011; and PLN 10,000,000 for 2012 and additionally funds provided by the National Fund for Environmental Protection and Water Management for location analyses and studies for the radioactive cemetery and for social consultations in this respect – 2009–2011. 2. Review of locations of the radioactive cemetery examined so far for – 2009. 3. Carrying out studies and selection of the site of the radioactive cemetery and holding social consultations for the location – 2010–2012. 4. Preparing infrastructure for the construction of the radioactive cemetery as well as preparing the radioactive cemetery design – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (task 1) • National Fund for Environmental Protection and Water Management (task 1) • Government Plenipotentiary for Polish nuclear power (tasks 1, 2–4) • Minister competent for the economy (tasks 1, 2–4) • Polish Geological Institute (tasks 2 and 3)

Measure 3.9	Building research and development capacity and supporting work on new reactor technologies and nuclear-coal synergy. Preparing the programme of Poland's participation in all phases of the fuel cycle
Implementation method	<ol style="list-style-type: none"> 1. Earmarking State budget funds of up to PLN 5,000,000 for 2009; up to PLN 10,000,000 for 2010; up to PLN 15,000,000 for 2011; and up to PLN 20,000,000 for 2012 for maintenance of the technical infrastructure of the scientific and research capacity – 2009–2011. 2. Analysing plausibility of financing research and development in the area of nuclear power from European funds and plausibility of earmarking PLN 40,000,000 per year for that purpose from European funds – 2009/2010. 3. Establishing a grant system for financing analyses and calculations carried out within the scientific and research capacity – 2010. 4. Establishing the National Nuclear Research Laboratory for the use of nuclear energy to a peaceful purpose – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Government Plenipotentiary for Polish nuclear power (tasks 1, 3, and 4) • Minister competent for the economy (tasks 1, 3, and 4) • Minister competent for regional development (task 2) • Minister competent for science (tasks 3 and 4)

Measure 3.10	Preparing Polish industry's participation in the nuclear energy production programme
Implementation method	<ol style="list-style-type: none"> 1. Running an informational campaign concerning the requirements for the production of nuclear power machinery as well as gathering information from companies adapted to participation in the nuclear energy production programme – from 2010.
Responsible bodies	<ul style="list-style-type: none"> • Polish Agency for Enterprise Development (PARP) • Government Plenipotentiary for Polish nuclear power

	<ul style="list-style-type: none"> Minister competent for the economy
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Measure 3.11	Preparing plans of adapting the transmission grid to nuclear power plants
Implementation method	<ol style="list-style-type: none"> Analysing and selecting optimal locations of the nuclear power plant taking into account the existing configuration of the power grid – 2009. Analysing the impact of the selected locations of the nuclear power plant on the transmission grid with a view to selecting locations optimal from the point of view of transmission grid operation security – 2009/2010. Preparing transmission grid development plans required to connect the nuclear power plants in selected locations – 2011/2012.
Commercial entities recommended for implementation	<ul style="list-style-type: none"> Transmission system operator (tasks 1–3)

Measure 3.12	Prospecting uranium deposits in the territory of Poland
Implementation method	<ol style="list-style-type: none"> Earmarking State budget funds of PLN 2,000,000 for 2010; PLN 2,000,000 for 2011; and PLN 2,000,000 for 2012; and additionally funds provided by the National Fund for Environmental Protection and Water Management for geological research – 2009–2011. Review of the existing data on uranium deposits in Poland – 2009. Devising methodology of surveying uranium deposits in Poland – 2010. Surveying the geological structure of Poland for presence of uranium deposits – 2010–2012.
Responsible bodies	<ul style="list-style-type: none"> Government Plenipotentiary for Polish nuclear power (task 1) Minister competent for the economy (task 1) Minister competent for the environment (tasks 1–4)

Priority IV	Development of the use of renewable energy sources, including biofuels
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Measure 4.1	Devising a path to reach a 15% share of renewable energy sources in the sustainable use of final energy, broken down into individual energy types, namely: electricity, heat, cold and renewable energy in transport
Implementation method	<ol style="list-style-type: none"> 1. Preparing the action plan necessary to implement the Directive 2009/28/EC on the promotion of the use of energy from renewable sources² – 2009. 2. Consideration of plausibility and potential implementation of solutions aimed at awarding public objective status to investment projects in the area of renewable energy sources – 2010. 3. Drafting the <i>Action Plan for the increase in the use of renewable energy sources until 2020</i> presenting development paths to achieve a 15% share of renewable energy sources in final energy consumption, broken down into individual energy types: electricity, heat and cold, and renewable energy in transport – 2010. 4. Analysis of necessary changes in regulations essential to implementing the Directive on the promotion of the use of energy from renewable sources – 2010. 5. Transposition of the Directive on the promotion of the use of energy from renewable sources into Polish law – 2010.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–5)

Measure 4.2	Retaining support mechanisms for producers of electricity from renewable sources, e.g. by means of a system of certificates of origin
Implementation method	<ol style="list-style-type: none"> 1. Monitoring the operation of the support mechanism in the form of certificates of origin as regards its applicability for achieving the objectives and its potential improvement – from 2010. 2. Cost efficiency analysis of the support mechanism, with particular consideration of the substitution fee formula due to gradual increase in prices of energy from fossil fuels, ensuring stability of the mechanism at the same time – 2010. 3. Implementation of potential changes – 2012.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3)

Measure 4.3	Retaining the obligation to gradually increase the share of bio-components in transport fuels so as to meet the planned objectives
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² Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC (OJ L 140, 5.6.2009, p. 16–62).

Implementation method	<ol style="list-style-type: none"> 1. Amending regulations on bio-components and liquid biofuels, in particular as regards: <ul style="list-style-type: none"> o Increasing the share of bio-components in liquid fuels (petrol and diesel); o Changes to the calculation method of attaining the National Indicator Target; o Enabling the transfer of surplus in the area of compliance with the National Indicator Target between entities committed to meeting it; o Enabling achievement of the National Indicator Target by applying new technologies in the production of liquid biofuels and covering these fuels with tax reliefs and exemptions (e.g. excise tax reliefs). <p>Task implementation deadline – 2010.</p> <ol style="list-style-type: none"> 2. Adjustment of quality requirements for bio-components and liquid biofuels to the new norms in order to allow marketing of new kinds of liquid biofuels – on an ongoing basis. 3. Analysis of validity of maintaining the existing tax-based support instruments in the light of completion of the notified public aid programme on 30 April 2011 – 2010. 4. Analysis of compliance of liquid biofuels and bio-components produced by the existing installations with the criteria of sustainability featured in the Directive on the promotion of the use of energy from renewable sources in terms of introducing technological changes or their replacement with new ones that meet the criteria – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–4) • Minister competent for public finance (task 1)

Measure 4.4	Introducing additional support instruments encouraging more extensive production of heat and cold from renewable energy sources
Implementation method	<ol style="list-style-type: none"> 1. Introducing the system to support the use of heat and cold from geothermal resources (including the use of heat pumps) and solar energy (with the use of solar collectors) – 2010. 2. Plausibility analysis of implementation of additional support mechanisms for district heat and cold energy generated from renewable energy sources – 2010. 3. Potential preparation of a draft regulation on supporting district heat and cold energy production from renewable energy sources – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3) • Minister competent for public finance (task 1 – co-operation)

Measure 4.5	Implementing the directions of building agricultural biogas plants, on the assumption that at least one biogas plant is set up in each commune by 2020
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Implementation method	<ol style="list-style-type: none"> 1. Adoption of the document entitled “Development directions agricultural biogas plants in Poland” by the Council of Ministers – 2009. 2. Lifting barriers to agricultural biogas plants as identified in the Programme – from 2009. 3. Drafting a guide for investors willing to build agricultural biogas plants, including, <i>inter alia</i>, sample biogas plant designs – 2010. 4. Conducting an informational campaign to provide comprehensive and reliable information on advantages of construction of biogas plants, in co-operation with local authorities – 2010. 5. Monitoring programme implementation – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–5) • Minister competent for agriculture (task 2) • Minister competent for the environment (task 2) • Minister competent for education (task 2) • Minister competent for public finance (task 2 – co-operation) • Minister competent for regional development (task 2) • Local government bodies (task 4)

Measure 4.6	Creating conditions to facilitate making investment decisions on building off-shore wind farms
Implementation method	<ol style="list-style-type: none"> 1. Identification of legal barriers preventing or hindering the construction of off-shore wind farms – 2010. 2. Preparing draft amendments to regulations aimed at lifting the identified barriers, in particular amendments to the Act on marine areas of the Republic of Poland and maritime administration – 2010. 3. Making a decision on Poland’s participation in the construction of the international off-shore energy cable line (“Supergrid”) of key importance to the development of off-shore wind farms – 2010. 4. Selecting potential sites of wind farms in marine areas of the Republic of Poland – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–3) • Minister competent for maritime economy (tasks 2 and 4) • President of the Government Legislation Centre (task 2) • Field maritime administration bodies (task 4)

Measure 4.7	Direct support to building new renewable energy generation units and power grids that could be connected with the use of European funds and environmental protection funds, including funds gathered in the form of the substitute fee and fines
Implementation methods	<ol style="list-style-type: none"> 1. Providing assistance for the construction of new renewable energy generation units, including those which produce bio-components and liquid biofuels as well as infrastructure necessary for their connections from public funds, <i>inter alia</i> under: <ul style="list-style-type: none"> ○ <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013;

	<ul style="list-style-type: none"> ○ Regional Operational Programmes for the years 2007–2013; ○ National Fund for Environmental Protection and Water Management (NFOŚiGW) programmes for projects in the area of renewable energy sources, high efficiency co-generation units, and biofuels. <p>The task is being implemented on an ongoing basis.</p> <ol style="list-style-type: none"> 2. Analysing procedures in terms of implementing potential solutions facilitating the access to domestic and foreign aid funds through the elimination of excessively stringent requirements and restrictions – 2010. 3. Devising subsequent priority programmes financed with the substitution fee and fines and arranging it with the Minister of Economy – 2010.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • Minister competent for the environment (tasks 1 and 3) • Minister competent for regional development (task 1) • Province authorities (task 1) • National Fund for Environmental Protection and Water Management (tasks 1, 2, and 3)

Measure 4.8	Stimulating the development of the Polish industry's which manufactures machinery for the renewable energy sector, also with the use of European funds
Implementation method	<ol style="list-style-type: none"> 1. Analysing the possibilities to develop production of machinery for renewable energy sector in Poland both for domestic purposes and for export – 2010. 2. Exploration of possibilities and creating conditions for investments in renewable energy sources abroad by Polish companies, in particular in developing countries – 2010. 3. Supporting the production of machinery for the renewable energy sector from the funds provided by <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 and Regional Operational Programmes – from 2009. 4. Analysing the possibilities to introduce a support system for enterprises pursuing new investment projects in production of machinery for renewable energy production and introducing potential amendments to Polish legislation – 2012. 5. Supporting research into new technologies used to produce fuels and energy from renewable sources, taking into account technologies ensuring stability of power supply into the power system, including implementation of tasks stemming from the strategic research and development programme “Advanced Technologies for Energy Generation” by the National Centre for Research and Development (NCBiR) – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 3, and 4) • Minister competent for regional development (task 3) • Province authorities (task 3) • Minister competent for public finance (task 4 – co-operation) • Minister competent for science (task 5)

Measure 4.9	Supporting the development of technologies and building installations to obtain renewable energy from waste comprised of biodegradable materials
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Implementation method	1. Issuing a regulation on detailed technical conditions for qualifying a portion of energy regained from heat treatment of municipal waste as renewable energy – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (task 1) • Minister competent for the economy (task 1)

Measure 4.10	Evaluation of plausibility of using the existing damming structures owned by the State Treasury to generate power by way of taking their inventory, establishing their framework environmental impact, and devising the rules of making them available
Implementation method	<ol style="list-style-type: none"> 1. Taking inventory of damming structures owned by the State Treasury according to criteria devised by the Minister competent for water economy in co-operation with the Minister responsible for the environment and the Minister in charge of rural development – 2011. 2. Analysis of the compensated environmental impact of water power plants (evaluation of existing hydrotechnical facilities, existing and planned nature conservation forms, the condition of the fish population) – 2011. 3. Selecting the existing damming structures owned by the Treasury which – due to the interests of the Treasury and justified interests of water users – may be used for power generation purposes by entities exercising water ownership – 2012. 4. Devising the rules of making the existing damming structures owned by the Treasury available for power generation purposes to entities other than those exercising water ownership – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for water economy (tasks 1–4) • Minister competent for the environment (tasks 2 and 4) • Minister competent for rural development (task 3) • Minister competent for the Treasury (task 3)

Priority V	Development of competitive fuel and energy markets
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Measure 5.1	Implementing a new model of the electricity market which consists, <i>inter alia</i>, in introducing the intra-day market, the power reserve market, transmission rights market, and generation capacity market, as well as introducing a mechanism to manage system services and system constrained generation
Implementation method	<ol style="list-style-type: none"> 1. Devising a national system of grid charges by the transmission system operator to replace the system based on average prices (copperplate model) – 2010. 2. Making a decision by the Council of Ministers regarding introduction of the model and adopting a programme of gradual implementation of the system together with a set of protective measures to benefit the groups and areas affected by the negative effects of adopted solutions – 2010. 3. Devising the assumptions of the IT system to exchange information essential to implement the solutions – 2010. 4. Introducing changes to the electricity (commodity) and power reserves pricing system leading to introduction of marginal prices and alternative costs – 2010. 5. Devising, by the transmission system operator, of the legal and organisational concept enabling universal implementation of solutions for the electricity wholesale market, including implementation of the intra-day market allowing market participants to significantly adjust contract periods and timetable preparation to their actual completion date, implementation of the power reserves, transmission rights, and generation capacity markets, as well as introducing a mechanism to manage systemic services and system constrained generation – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 2 and 4) • President of the Energy Regulatory Office (tasks 2 and 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Transmission system operator (tasks 1, 3, and 5)

Measure 5.2	Facilitating switching between power sellers, <i>inter alia</i> through introducing national standards for technical features of electronic electricity meters, as well as their installation and reading
Implementation method	<ol style="list-style-type: none"> 1. Devising the catalogue of prohibited contractual clauses for contracts concluded with household customers – 2010. 2. Devising good practice with respect to sales and contracts (e.g. a friendly seller) – 2010. 3. Devising a standard contract between the distribution system operator and the seller as well as amending the Energy Law in this respect – 2011. 4. Popularisation of the use of electronic electricity meters, including introduction of Polish national standards of meter technical features, their installation and

	<p>reading – 2012.</p> <p>5. Introduction of the obligation to apply the so-called “tariff calculator” by electricity sellers which enables electricity users to compare trade offers of various sellers – 2011.</p> <p>6. Introduction of the principle that the grid operator is the owner of meters provided to users – 2011.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 3, 5, and 6) • President of the Energy Regulatory Office (tasks 1, 2 and 4)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Electricity sellers and operators of transmission systems (tasks 2 and 4)

Measure 5.3	Creating conditions allowing to fix electricity reference prices on the market
Implementation method	<ol style="list-style-type: none"> 1. Introduction of the obligation to make a part of the electricity trading publicly available – 2010. 2. Monitoring the implementation of the obligation – on an ongoing basis. 3. Change in the operating principles of the electricity trading platforms to enhance the appeal of the market to electricity buyers and sellers – from 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • President of the Energy Regulatory Office (task 2)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Entities managing trading platforms (task 3)

Measure 5.4	Optimising the conditions of pursuing a business in Poland by energy-intensive customers in order to prevent their products sold in international markets from losing competitive appeal
Implementation method	<ol style="list-style-type: none"> 1. Preparing amendments to regulations in order to prevent deterioration of competitiveness of energy-intensive customers, e.g. by reducing other cost factors, in particular relating to energy costs – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (task 1) • Minister competent for public finance (task 1)

Measure 5.5	Protecting the poorest electricity customers from the effects of electricity price increase
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Implementation method	<ol style="list-style-type: none"> 1. Devising and introducing an appropriate solution in the framework of the national social assistance system concerning protection of the poorest electricity customers among households – 2010. 2. Preparing and introducing an additional solution which consists in providing assistance to the poorest electricity customer groups by power companies under the assistance programs they devise (the so-called Corporate Social Responsibility (CSR) principle) in the electricity sector in the conditions of the competitive electricity market – 2010.
Responsible body	<ul style="list-style-type: none"> • Minister competent for social security (task 1) • Minister competent for the economy (tasks 1 and 2)

Measure 5.6	Changing competition-supporting regulation mechanisms of the gas market and introducing arm's length methods of gas price-fixing
Implementation method	<ol style="list-style-type: none"> 1. Devising and introducing regulations aimed at abandoning tariffs of trading, including introduction of the following: <ul style="list-style-type: none"> ○ Rules of efficient access to gas infrastructure; ○ The entry-exit model; ○ The idea of a virtual gas sales point; ○ Market model which allows isolating physical flows from trade flows; ○ Market balancing rules; ○ Market model which allows effective switching between sellers. Task implementation deadline – 2010. 2. Devising a regulation model for the sector targeted gradual abandoning of tariffs on trade (including adjusting of the regulation model to conditions set forth in task 1) – 2010. 3. Devising a roadmap to achieve a competitive gas market that would set forth a package of measures to lift market barriers and ensure actual development of the gas market, taking the following issues into account: <ul style="list-style-type: none"> ○ Infrastructural conditions of competition development, including extension and modernisation of the transmission and distribution grid and the storage infrastructure taking into account the TPA principle; ○ Ensuring access to gas infrastructure; ○ Devising assumptions for regulations to allow implementing the competition principles; ○ Implementing the rules on switching between sellers; ○ Extending access to gas sources for entities operating on the market. Task implementation deadline – 2010. 4. Implementation of the roadmap – from 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 4) • President of the Energy Regulatory Office (tasks 1–4) • Minister competent for the Treasury (task 4) • Minister competent for the environment (task 4)
Commercial entities recommended	<ul style="list-style-type: none"> • Operators of gas systems (task 4)

for implementation	
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Priority VI	Mitigating the environmental impact of the power industry
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Measure 6.1	Establishing a system to manage national emission caps of greenhouse gases and other substances
Implementation method	<ol style="list-style-type: none"> 1. Establishing operating rules and introducing a national system to finance green investments in Poland, under which funds obtained from selling emission units allocated under the Kyoto Protocol in the years 2009–2012 will be used to co-finance implementation of programmes or projects connected with environmental protection, in particular with reducing or avoiding national emission of greenhouse gases – 2009. 2. Devising a national programme to reduce emissions with a view to meeting obligations imposed on Poland in case the country exceeds or is about to exceed the national emission cap. 3. Devising an assessment of Poland’s capacity to reduce greenhouse gas emissions – 2010. 4. Operation of the system managing emissions of greenhouse gas and other substances, execution of tasks assigned to the National Centre for Emissions Balancing and Management (KOBIZE) and tasks concerning monitoring the emission volume of substances covered by the system – on an ongoing basis.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1, 2, and 4) • Minister competent for the economy (task 3) • National Fund for Environmental Protection and Water Management (task 4)

Measure 6.2	Introduction of acceptable product emission rates for electricity and heat generation as a tool which allows reducing SO₂ and NO_x emission levels and reaching the emissions cap set forth for Poland in the Accession Treaty
Implementation method	<ol style="list-style-type: none"> 1. Preparing a draft Act on the system of balancing and settlement of sulphur dioxide and nitrogen oxide emission volumes for large incineration sources – 2010. 2. Devising the scope of measures connected with the implementation of the new IED/IPPC Directive (on industrial emissions) – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1 and 2) • President of the Government Legislation Centre (task 1) • Minister competent for the economy (task 2)

Measure 6.3	Meeting the commitments for the power and heat sectors stemming from the new ETS Directive
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Implementation method	<ol style="list-style-type: none"> 1. Devising a list of installations generating electricity (existing ones and those physically started prior to the end of 2008) eligible to granting a transition period and consulting the list with the European Commission – 2009–2011. 2. Devising a path to reducing CO₂ emission for installations subject to a transition period as to the commitment to purchase all allowances to emit CO₂ in auctions – 2010. 3. Drawing up standards to allow implementing the above path based on the multi-fuel index method or emission volumes of installations covered by the ETS system in the years 2005–2007 – 2010. 4. Devising a national investment plan to allow reducing CO₂ emission volumes, taking into account modernisation and supplementing of the power infrastructure, development of clean coal technologies, diversification of the fuel structure and fuel supply sources – 2010. 5. Drawing up an application to the European Commission for granting free allowances that would include the methodology of allocating allowances to emit greenhouse gases to electricity producers for the years 2013–2019 – 2010. 6. Drawing up a list of heat installations and high-efficiency cogeneration installations, in relation to generating heat and cold, which could be granted free allowances based on indices set forth by way of commitment – 2010. 7. Considering the possibility and taking steps aimed at amending the new ETS Directive towards full consideration of the specific character of coal-based economies – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1–7) • Minister competent for the environment (task 7) • Office of the Committee for European Integration (task 7)

Measure 6.4	Using the income from auctions of CO₂ emission allowances to support measures aimed at reducing greenhouse gas emission volumes
Implementation method	<ol style="list-style-type: none"> 1. Devising a system and principles for the use of proceeds from CO₂ emission allowance auctions – 2010. 2. Setting priorities as to the use of proceeds from CO₂ emission allowance auctions, including support granted for: <ul style="list-style-type: none"> ○ Improving coal gasification technologies; ○ Developing the use of renewable energy sources; ○ Building new high-efficiency cogeneration units committed to purchase 100% of CO₂ emission allowances from 2013; ○ Building CCS installations and conducting research in the area; ○ Research and development on fuel cells of the next generation and hydrogen economy. <p>Task implementation period – 2010.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 2) • Minister competent for public finance (task 1) • Minister competent for the environment (tasks 1 and 2) • Minister competent for science (task 2)

Measure 6.5	Introducing standards for building new power plants under the system of preparation for carbon capture and setting national capacity for geological CO₂ storage
Implementation method	<ol style="list-style-type: none"> 1. Participation in the work on the part of the European Commission on devising the standards for the construction of new power plants under the system of preparation for the carbon capture – from 2009. 2. Implementation of the Directive on the geological storage of carbon dioxide³ into the Polish legislation – 2011. 3. Conducting an information campaign targeted at the society on the most significant aspects of the CCS technology – until 2012. 4. Implementation of the <i>Programme for recognition of formations and structures for safe geological CO₂ storage and their monitoring</i> – 2009–2012. 5. Drawing up and adopting a report presenting information obtained during programme implementation – 2012.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 3) • Minister competent for the environment (tasks 2–5)

Measure 6.6	Active participation in implementing the initiative of the European Commission to build large-scale demonstration facilities for carbon capture and storage (CCS) technologies
Implementation method	<ol style="list-style-type: none"> 1. Undertaking comprehensive activities on the EU forum aimed at including two Polish CCS installations in the European Commission list of demonstration projects co-financed from the reserve pool of allowances for new ETS system installations – 2009/2010. 2. Determining support instruments for Polish CCS projects – 2009–2010. 3. Consideration of and making the decision to finance development of CCS technologies under the <i>Operational Programme Infrastructure and Environment</i> – 2009–2010. 4. Commencement of implementation of two projects – 2009–2010. 5. Preparing the national flagship programme on the development of clean coal technologies, including CCS – 2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1, 2, 3, and 5) • Minister competent for regional development (task 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Power companies (task 4)

Measure 6.7	Applying CCS technologies to support crude oil and natural gas extraction
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³ Directive 2009/31/EC of the European Parliament and of the Council of 23 April 2009 on the geological storage of carbon dioxide and amending Council Directive 85/337/EEC, European Parliament and Council Directives 2000/60/EC, 2001/80/EC, 2004/35/EC, 2006/12/EC, 2008/1/EC and Regulation (EC) No 1013/2006 (OJ L 140, 5.6.2009, p. 114–135).

Implementation method	<ol style="list-style-type: none"> 1. Devising a programme indicating, <i>inter alia</i>, potential sites of application of CCS technologies to support crude oil and natural gas extraction, including an implementation schedule – 2010. 2. Consideration and potential inclusion of work on methods to support crude oil and natural gas extraction using CO₂ in the National Research Programme – 2009–2010.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (task 1) • Minister competent for the economy (task 1) • Minister competent for the Treasury (task 1) • Minister competent for science (task 2)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Fuel sector companies (task 1)

Measure 6.8	Intensifying research and development on the CCS technology and on new technologies which allow using captured CO₂ as a raw material by other industry branches
Implementation method	<ol style="list-style-type: none"> 1. Securing funds of at least PLN 100 million for the years 2010–2012 for co-financing of research and development in this field. 2. Establishing a co-operation platform between science and business within the National Research and Development Centre – on an ongoing basis. 3. Announcing competitions for projects eligible to support – 2009.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for science (task 1) • National Research and Development Centre (Polish abbreviation: NCBiR) (tasks 2 and 3)

Measure 6.9	Industrial use of waste coal
Implementation method	<ol style="list-style-type: none"> 1. Introduction of measures to reduce waste generated during coal extraction in mining companies – 2010. 2. Making waste generated during coal extraction and stored on the surface available to all interested entities – on an ongoing basis. 3. Analysis and potential introduction of financing mechanisms to encourage companies to start using waste coal for industrial purposes – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the economy (tasks 1 and 3)
Commercial entities recommended for implementation	<ul style="list-style-type: none"> • Coal companies (tasks 1 and 2)

Measure 6.10	Increasing the use of incineration by-products
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Implementation method	<ol style="list-style-type: none"> 1. Implementation of the Directive on waste⁴, particularly the provisions supporting industrial use of incineration by-products – 2010. 2. Consideration and potential inclusion of work on technologies of post-generation waste, particularly high-calcium waste, processing in the National Research Programme – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (task 1) • Minister competent for science (task 2)

Measure 6.11	Using high-efficiency closed cooling cycles in power plants and in heat and power stations
Implementation method	<ol style="list-style-type: none"> 1. Devising a financial system encouraging power generation companies to use water-saving technologies – 2011. 2. Amending regulations in force in respect of financial and legal measures provided for in the <i>Environmental protection law</i> – 2011.
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for water economy (task 1) • Minister competent for the environment (tasks 1 and 2)

Measure 6.12	Diagnosing the possibility of unintended production of persistent organic pollutants (dioxins and furans) by the power sector
Implementation method	<ol style="list-style-type: none"> 1. Establishing the impact of inorganic salts of chloride (KCl, NaCl, CaCl₂) contained in hard coal on the volume of dioxin and furan emissions in Poland (PCDD/F) – 2011. 2. Taking steps aimed at reducing production of the above pollutants by the power sector in case a considerable impact of the sector on their production in Poland is discovered – 2012.
Responsible body	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1 and 2)

Measure 6.13	Supporting measures in respect of environmental protection with the use of, <i>inter alia</i>, European funds
Implementation method	<ol style="list-style-type: none"> 1. Supporting projects reducing the volume of pollutants produced by the power sector under the <i>Operational Programme Infrastructure and Environment</i> for the years 2007–2013 and regional operational programmes – on an ongoing basis. 2. Supporting projects with respect to environmental protection from environmental protection and water management funds, in particular by way of the following: <ul style="list-style-type: none"> ○ Programme for projects aimed at reducing emissions of volatile organic compounds; ○ Programme for projects aimed at reducing emissions from combustion of fuels for energy purposes.

⁴ Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3–30).

	<p>The above task is being implemented on an ongoing basis.</p> <p>3. Supporting projects aimed at reducing emissions from the National Climate Fund – from 2011.</p> <p>4. Establishing a long term programme to reduce emissions from combustion in the residential sector aimed at reducing demand for heat used for heating purposes, replacing solid fuels with environmentally-friendly fuels, and using renewable energy sources to meet the needs of households – 2011.</p>
Responsible bodies	<ul style="list-style-type: none"> • Minister competent for the environment (tasks 1–4) • Province authorities (task 1)