Transition facility programme for Romania

Promotion of market based instruments for E-RES, energy efficiency and emission rights

1. Basic Information

1.1. CRIS Number: 2007/19343.06.01
1.2. Title: Strengthening energy efficiency, security of supply and energy market operation in Romania
1.3. Sector: Energy
1.4. Location: Romania
1.5. Duration: 10 months

2. Objectives

2.1. Overall Objective:

The overall objective of this project is to further support the implementation of the most recent developments of EU energy acquis in Romania

2.2. Project purpose:

Strengthen the implementation of the acquis in the area of energy efficiency, RES and the operation of the energy market

2.3. Justification

- The Comprehensive Monitoring Report on the Romania preparations for membership (CMR) issued by the Commission in May 2006, reflecting the situation at the end of April 2006, emphasises the followings regarding the energy sector:

"... the upwards adjustment of prices generally continued. Competition on the energy market started to bear fruit and the transparency of energy transactions increased further with the establishment of a wholesale power exchange. The efforts to improve the collection of energy bills continued. ... The restructuring of the thermal energy sector went slowly and the sector continues to suffer from high-cost production facilities, ailing distribution networks and endemic non-payment. In order to meet the commitment to align fully consumer and production prices for heating in 2007, the restructuring of the sector should be advanced."

- The European Commission is coordinating the development of a consistent policy on the power sector in the South East Europe, known as the Athens Forum process. One significant step in this process is the signature of the Energy Community Treaty on October 25, 2005. The creation of the SEE Regional Energy Market organised in compliance to the EC Directives, as well as UCTE and ETSO rules for electricity and gas, contributes to the efforts of the countries of this region to integrate into EU practices and structures, promotes regional economic development, regional cooperation and stability. Strengthening of the capacity of the Energy Authorities of Romania is required in regard with decision making functions aiming at enhancement of security of energy supply, contribution to energy market competition within South Eastern Europe and exploiting economies of scale through the identification and study
of optimal interconnection options in the gas and electricity networks. These developments are in line with the provisions of the South East Energy Community Treaty of the European Community and the Green Paper on "A European Strategy for Sustainable, Competitive and Secure Energy."

3. Description

3.1. Background and justification:

The project aims to assure the needed technical assistance in order to support the preparation and implementation of the trading environment for market-based instruments dedicated to energy efficiency promotion ( Tradable Certificates -TCES- for energy savings, white certificates) and greenhouse gas emissions reduction (EUA – European Union Emission Allowances, CO₂ allowances) and to sustain the renewable energy promotion (TGC – tradable green certificate). These trading environments were developed and are operated through several Power Exchanges in Europe, generally by using adapted IT platforms which were originally dedicated to electricity derivatives trading. OPCOM has already implemented a trading and clearing IT&T platform for electricity derivatives.

The proposed Sub-project will identify necessary improvements / modifications / expansions of the existing platform, so that it will become possible to offer a trading environment for the aforementioned market-based instruments. The improved trading platform will provide the marketplace for the agents so as to be able to fulfil their obligations in regard with these types of tradable certificates. The implementation of such a trading platform will offer the specific benefit of transparency for the tradable certificates’ price setting through a market based mechanism.

3.2. Linked Activities

<table>
<thead>
<tr>
<th>Project</th>
<th>Financing status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Phare RO 2002//000-586.04.08.03-02 'Consolidation of OPCOM - investment component'</strong> The project provided the IT platform for trading and clearing for the financial power market. Using several functionalities of this platform, in December 2005 a successfully new market mechanism was launched, respectively the Centralized Bilateral Contracts Market. On the same platform a new market is to be commercially launched with the beginning of April 2007, respectively the Centralized Market for Forward Contracts, after a successful market trial period that begun with February 26, 2007. These results, together with the results of the Centralized Green Certificates Market administered by OPCOM, are inputs for the sub-project 3.</td>
<td>Finished in February 2006</td>
</tr>
<tr>
<td><strong>Project Phare RO 2002//000-586.04.08.03-01 'Consolidation of OPCOM-technical assistance component'</strong> . The project provided the necessary technical assistance for putting into installation the IT platform under the investment component and prepared the necessary procedures for the functional financial power market. These procedures should be completed for the market mechanisms dedicated to the CO₂ emissions and energy efficiency dedicated instruments and represent an input for sub-project 3.</td>
<td>Finished in March 2006</td>
</tr>
</tbody>
</table>
The project is not overlap with other projects financed from EU funds (post-accession funds or structural funds). This type of technical assistance/study is not eligible under Structural Funds.

3.3. Results

1. Comprehensive benchmarks on best practices, models, lessons learned etc. of the EU trading mechanisms regarding E-RES, energy efficiency and CO₂ emissions

2. Proposals for improvements in OPCOM trading platform for accommodating and for specific tradable products for E-RES, energy efficiency and carbon emission allowances

3. Road map for the implementation of the recommended solutions.

3.4. Activities

This project will provide technical assistance through the following activities:

1. Assessment of the EU and Romanian legal and institutional framework, rules and regulations in regard with market-based instruments. The activity will prepare a detailed overview of EU and regional applicable legislation and supporting institutions, their relationship as also the Romanian legal framework, institutions, relationship, expected legal constraints, requirement for licenses, approvals. By specific Romanian environment legal and institutional framework reviewing, trying to forecast its further development and carefully identifying the relevant milestones, the task is aiming to support the OPCOM management to discover its role in the environment area and to prepare them to cooperate with existing and expected counterparty institutions

2. Comprehensive assessment & benchmark of the European implementation schemes and Power Exchanges practices, of their undertaking in the OTC and Power Exchange framework, of the up-to-date results and lessons, of the related mechanisms characteristics, etc. In order to adopt in real life needed measures, instruments to cope with relevant EU legislation, and to follow the communications, strategy papers, guidelines indications and Kyoto Protocol provisions, the task 2 dedicated works will provide a comprehensive benchmarking of EU countries implementing schemes, their undertaking in OTC and PX frameworks, success stories and fails, lessons to be learned, examples to follow, mistakes to avoid, similarities and differences being emphasized. A first goal is to present European existing schemes during the project fulfillment, countries specificities in the following areas: renewable, energy efficiency, emission trading scheme. Related to the White Certificates, the experiences and findings of the following two projects will be considered: (i) the IEA project, carried out within the IEA Demand Side Management Programme – “Market Mechanisms for White Certificates Trading” (IEA DSM Task XIV); (ii) the Intelligent Energy Europe project “EuroWhiteCert”. The assessments will include the CHP Guarantee of Origin certificates scheme, in line with the European developments as per the harmonisation process and the related decisions and requirements. The cooperation with relevant entities will help the beneficiary to develop more targeted actions towards the harmonized schemes understanding, taking the benefit from existing experiences.

3. Development of specification required for improvements in the trading platform of OPCOM, based on the results and recommendations provided within the above mentioned
activities. The facilities of existing trading platforms in OPCOM will be reviewed independently of the stage of their development, i.e. either in full operation or in implementation process. Also the web traffic will represent a subject for careful review. Issues to be addressed are including the impact analysis and the best ways recommended to introduce the new products by undertaking the existing platforms features and capacity; a timetable of the new products auction sessions; the needed software improvements (if there are), the hardware and telecommunication equipments’ enhancement in order to support extended data and information volume also to prevent communications’ bottleneck and to allow intensified traffic; the results will be formalized as technical specifications. Based on a preliminary overview of existing specification and procedures’ pattern and agreements principles, structures and provisions, the new products will be introduced as packages of specifications; rules; procedures (including schedules), instruments specifications and agreements harmonized with existing ones. The specific IT procedures will be updated to mirror the enlargement of supporting platforms utilization.

4. Preparation of the Road Map of implementation/training. The task has to provide a clear timetable for implementation, according to the regulation that authorities will provide. It has to be taken in consideration the position of OPCOM in national framework and regional community, the targeted trading participants, the then stage of IT platforms developments, the relation with other existing products in OPCOM as daily schedule. The findings from Task 2 will provide inputs on decisions to be taken.

The overall domain of training shall cover the legal, institutional, technical and technological aspects dedicated to the trading marketplaces for market-based instruments for:

- greenhouse gas emissions allowances (e.g. CO₂ allowances),
- energy efficiency (e.g. white certificates),
- cogeneration, and
- the inter-relation of the above mentioned instruments with other Exchange traded instruments.

The training shall include both theoretical training (for the domains and respective trainees relevant for the project domain) and practical training (for a number of 15 trainees) and shall cover the European legal, institutional and regulatory frameworks applicable for the mentioned domain of the project, including best practices, as well as supporting the project overall and specific goals. Also, the training shall comprehensively cover the legal, organizational, corporate, technical, procedural and technological aspects as per the marketplace organization, according to the European practices in the field.

The proposed project requires the involvement of experts specialised on market based instruments used in liberalised electricity markets. A Technical Assistance contract is required for the acquisition of the aforementioned expertise. The project could not be implemented as a Twinning Light because such expertise does not exist in the similar institutions from different Member States.

The foreseen budget breakdown is as follows:

<table>
<thead>
<tr>
<th>Activity No.</th>
<th>Budget (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>
Required Experts’ profiles

The following experts have a crucial role in implementing the contract and are referred to as key experts.

Key expert 1: Team Leader: 190 working days

The Team Leader will be responsible for all matters relating to the management and implementation of the project, including the coordination of the activities of all the other experts (long-term and short-term) and the in-country management of the project. The Team Leader will draw up and monitor work programmes for all other experts. He/she will be responsible for all activities of the project. Furthermore, he/she will lead the main tasks of the project especially concentrating on present situation diagnosis and design of the proper trade platform.

Qualifications and skills

- technical or economical degree
- organizational skills
- good communication skills
- ability to manage a team of experts and co-ordinate overseeing administrative and logistic support
- fluency in spoken and written English

General professional experience

- minimum 5 years working experience from which at least 3 years in the electricity liberalized markets policy/strategy, electricity market places, trading of renewables and energy efficiency certificates, carbon trading.
- knowledge and experience in institutional capacity building
- experience on project management and strategic planning

Specific professional experience

- experience in the electricity markets field and especially in trading functions and incorporation of emissions allowances (e.g. EUA), energy efficiency instruments (e.g. white certificates) and green certificates trading.
- good knowledge in liberalized electricity market, greenhouse gas emissions, energy efficiency, and the related Acquis Communautaire
- previous experience in projects related to establish energy market platforms.

Key expert 2: IT Systems Analysis Expert: 120 mandays

He/she should support the Team Leader in performing daily activities.

Qualifications and skills
- information technology or similar degree
- knowledge in exploiting software and hardware applications used for market trading purposes
- fluency in spoken and written English

**General professional experience**

- minimum 5 years working experience from which at least 3 years in IT systems analysis, design, acquisition, implementation and operation.

**Specific professional experience**

- Information Technology design services related specifically to the development, acquisition and implementation of the systems for the financial power marketplaces.

- experience on: physical and financial power markets; characteristics, organization, technologies, rules and procedures, and operation of a financial power exchange;

- experience on the markets and marketplaces dedicated to emissions instruments (e.g. EUA) and energy efficiency instruments (e.g. white certificates); characteristics, organization, technologies, rules and procedures, and operation of the power exchange;

**Key expert 3: Market Analysis Expert: 80 man days**

He/she should support the Team Leader in performing daily activities.

**Qualifications and skills**

- technical or economical degree,
- organizational skills
- fluency in spoken and written English

**General professional experience**

- minimum 3 years working experience in development and/or operation of physical and financial power markets, related Power Exchanges;

**Specific professional experience**

- good knowledge on: liberalized electricity market, greenhouse gas emissions, energy efficiency, E-RES and the related Acquis Communautaire and on the related best practices, legal and institutional framework

- good knowledge of the Power Exchanges (operation specific to those markets administrators), emissions instruments (e.g. EUA) markets, trading and clearing;

- knowledge on corporate strategic planning and development.
4. Institutional Framework

The institutions involved in the implementation of these projects are:

The Ministry of Economy and Finance is responsible for the development of energy strategy.

The Romanian Energy Regulatory Authority (ANRE) is responsible for the regulation of the electricity market and natural gas market.

The Romanian Power Market Operator (OPCOM) is responsible for the management and operation of the electricity market exchange.

For the purposes of the projects, a Project Steering Committee will be set up two weeks after the start of the project activities in order to reflect the various attributions of the institutions acting in the field of energy. The Steering Committee will include top representatives from ANRE, OPCOM, Ministry of Economy and Finance- General Directorate for Energy Policy.

5. Detailed Budget

<table>
<thead>
<tr>
<th>MEuro</th>
<th>Transition Facility Support</th>
<th>Co-financing</th>
<th>Total cost (TF plus cofinancing)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Investment Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Institute on Building</td>
<td>Total Transition Facility (=I+IB)</td>
<td>National Public Funds (parallel cofinancing)*</td>
</tr>
<tr>
<td>TA</td>
<td>0.45</td>
<td>0.45</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>0.45</td>
<td>0.45</td>
<td></td>
</tr>
</tbody>
</table>

VAT is not an eligible expenditure under both the Transition Facility and national cofinancing funds indicated in the above budget table. Where contracts are subject to VAT due to provisions of national legislation, these funds have to be provided from national resource outside and in addition to the amounts indicated in the budget table.

6. Implementation Arrangements

6.1. Implementing Agency

The Romanian Implementing Agency is the Central Finance and Contracts Unit (CFCU) within the Ministry of Public Finances, which retains overall responsibility for the implementation of the project (approval of tender documents, of evaluation criteria, of evaluation of offers, signature of contracts, authorization and payments of invoices).

Carmen ROSU, Director CFCU/PAO
030669 Bucharest, Sector 3
Mirea Voda Boulevard 44, Entrance B
Telephone: +40 (21) 3260202
Fax: +40 (21) 3268730; 3268709
E-mail: carmenrosu@cfcu.ro
The Implementing Authority for the energy programme is the Ministry of Economy and Finance. The Implementing Authority is fully responsible for the project implementation.

152, Calea Victoriei, 70034 Bucharest, sector 1, Romania
Tel: 2025271
Fax: 2025275

Contact person: Steluta Goanta
Deputy General Director/SPO
e-mail: sgoanta@minind.ro

The Romanian Power Market Operator (OPCOM) is the beneficiary of the project.

The Steering Committee will be chaired by the SPO within the Ministry of Economy and Finance. The consultant will take part at the meetings of the Steering Committee and will ensure the secretariat of this committee.

The Steering Committee will be responsible for the overall co-ordination of the project and for providing guidance to the Consultant. The Steering Committee will review the progress and the outputs of the consultant, and will provide comments and propose solutions where is necessary.

The Steering Committee will meet quarterly.

6.2. Twinning
N/A

6.3. Non-standard aspects

The procedures defined in NPR will be strictly followed.

6.4. Contract

| 1 TA contract | 0.45 Meuro |

7. Implementation Schedule

7.1. Start of tendering/call for proposals

ToR for the sub-projects are expected to be finalised in December 2007. The contracting procedure is expected to commence on January 2008.

7.2. Start of project activity

Expected in March 2008

7.3. Project completion

Expected in January 2009
8. Sustainability

The results of the project will contribute to implement the decisions of the European Council of 8/9 March 2007, as per the Action Plan 2007-2009 related to the Energy Policy for Europe, the targets set for energy efficiency, renewable energy and emission and the regulations in the field, such as: Directive 2004/8/EC, Decision 2007/74/EC, Directive 2006/32/EC, etc.

The Beneficiary of the project is OPCOM which have carried out successfully Technical Assistance PHARE funded projects. Therefore OPCOM have developed the required infrastructure and expertise required for the management of Technical Assistance projects. Experts from the permanent staff of OPCOM will be designated as counterparts for the carrying out of the projects in order to safeguard the sustainability of the results.

The Ministry of Economy and Finance has been the Implementing Authority for the PHARE energy projects and has created a specific Programme Implementation Unit (PIU) for the monitoring of such projects. Resources in terms of staff and budget will secure the sustainability of the project after their completion.

9. Conditionality and sequencing

There is no conditionality

Annexes to project Fiche

1. Logframe in standard format (compulsory)
2. Detailed implementation chart (compulsory)
3. Contracting and disbursement schedule, by quarter, for full duration of project (including disbursement period) (compulsory)
4. For all projects: reference list of feasibility/pre-feasibility studies, indepth ex ante evaluations or other forms of preparatory work. For all investment projects, the executive summaries of economic and financial appraisals, environmental impact assessments, etc, should be attached (compulsory)
5. Reference list of relevant laws and regulations (compulsory)
6. Reference list of relevant strategic plans and studies (may include institution sector strategies, development plans, business development plans, etc) (compulsory)
7. Detailed budget breakdown (compulsory)
ANNEX 1: LOGFRAME MATRIX

Log frame
Transition Facility programme for Romania

<table>
<thead>
<tr>
<th>LOGFRAME PLANNING MATRIX FOR Project Fiche</th>
<th>Programme name and number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of the project</td>
<td>2007/19343.06.01</td>
</tr>
<tr>
<td>☐ Promotion of market based instruments for E-RES, energy efficiency and emission rights</td>
<td>Contracting period expires: 15 12 2009</td>
</tr>
<tr>
<td></td>
<td>Disbursement period expires: 15 12 2010</td>
</tr>
<tr>
<td></td>
<td>Total budget: 0,45 M€</td>
</tr>
<tr>
<td></td>
<td>TF budget: 0,45 M€</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall objective</th>
<th>Relates to Copenhagen criterion and acquis chapter¹</th>
<th>List of other projects with same objective</th>
</tr>
</thead>
</table>

¹ Please specify here the recommendation made in Comprehensive Monitoring Report or other relevant documents (SIGMA (financial control, procurement, Peer Reviews, Evaluation reports, Final reports of TW projects)
<table>
<thead>
<tr>
<th>Results</th>
<th>Objectively verifiable indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)+2) Comprehensive benchmarks on best practices, models, lessons learned etc. of the EU trading mechanisms regarding E-RES, energy efficiency and CO₂ emissions</td>
<td>• Comprehensive benchmarks for EU trading mechanisms for E-RES, (e.g. Green Certificates), energy efficiency (e.g. White Certificates) and carbon emission allowances developed</td>
<td>• EU Delegation reports • EU Commission reports • Consultants Task Reports • Electricity Market Participants reports</td>
<td>Cooperation with other institutions</td>
</tr>
<tr>
<td>3) Proposals for improvements in OPCOM trading platform for accommodating and for specific tradable products for E-RES, energy efficiency and carbon emission allowances</td>
<td>• Technical specifications for required improvements in OPCOM trading platform developed</td>
<td>• Consultants Task Reports • PIU Reports • Beneficiaries Reports • Training assessment reports</td>
<td></td>
</tr>
</tbody>
</table>
1. Assessment of the EU and Romanian legal and institutional framework, rules and regulations in regard with market-based instruments. The activity will prepare a detailed overview of EU and regional applicable legislation and supporting institutions, their relationship as also the Romanian legal framework, institutions, relationship, expected legal constraints, requirement for licenses, approvals. By specific Romanian environment legal and institutional framework reviewing, trying to forecast its further development and carefully identifying the relevant milestones, the task is aiming to support the OPCOM management to discover its role in the environment area and to prepare them to cooperate with existing and expected counterparty institutions.

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3. Development of specification required for

| Technical assistance | | Cooperation with other institutions |
improvements in the trading platform of OPCOM. The facilities of existing trading platforms in OPCOM will be reviewed independently of the stage of their development, i.e. either in full operation or in implementation process. Also the web traffic will represent a subject for careful review. Issues to be addressed are including the impact analysis and the best ways recommended to introduce the new products by undertaking the existing platforms features and capacity; a timetable of the new products auction sessions; the needed software improvements (if there are), the hardware and telecommunication equipments’ enhancement in order to support extended data and information volume also to prevent communications’ bottleneck and to allow intensified traffic; the results will be formalized as technical specifications. Based on a preliminary overview of existing specification and procedures’ pattern and agreements principles, structures an provisions, the new products will be introduced as packages of specifications; rules; procedures (including schedules), instruments specifications and agreements harmonized with existing ones. The specific IT procedures will be updated to mirror the enlargement of supporting platforms utilization.

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Annex 2: Detailed implementation chart

<table>
<thead>
<tr>
<th>Calendar months</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA</td>
<td>D</td>
<td>D</td>
<td>C</td>
<td>I</td>
</tr>
<tr>
<td>D</td>
<td>Design/Tender preparation</td>
<td>C</td>
<td>Contracting</td>
<td>I=Implementation/works</td>
</tr>
</tbody>
</table>
Annex 3a - Cumulative contracting schedule

<table>
<thead>
<tr>
<th></th>
<th>31/03/07</th>
<th>30/06/07</th>
<th>30/09/07</th>
<th>31/12/07</th>
<th>31/03/08</th>
<th>30/06/08</th>
<th>30/09/08</th>
<th>31/12/08</th>
<th>31/03/09</th>
<th>30/06/09</th>
<th>30/09/09</th>
<th>31/12/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTRACTED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical assistance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NB: All contracting should normally be completed within 6-12 months and must be completed within 24 months of signature of the FA.

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Annex 3b - Cumulative disbursement schedule

<table>
<thead>
<tr>
<th></th>
<th>31/03/08</th>
<th>30/06/08</th>
<th>30/09/08</th>
<th>31/12/08</th>
<th>31/03/09</th>
<th>30/06/09</th>
<th>30/09/09</th>
<th>31/12/09</th>
<th>31/03/10</th>
<th>30/06/10</th>
<th>30/09/10</th>
<th>31/12/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISBURSEMENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Technical assistance</td>
<td></td>
<td></td>
<td>0.27</td>
<td>0.405</td>
<td>0.405</td>
<td>0.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NB: All disbursements must be completed within 36 months of signature of the FA.
Annex 4: Reference list of relevant laws and regulations

1. Law 199/2000 regarding the efficient use of energy

2. Government Decision no. 1892/2004 regarding establishment of the system for promoting the electricity production from renewable sources;

3. Government Decision no. 443/2003 regarding the promotion of electricity produced from renewable sources


6. Government Decision no. 890/2003 regarding the Road map in the energy sector in Romania.

7. Law No. 199/2000 on Energy Efficiency as amended by the GO 78/2001,

8. Law No. 14/ 1997 for ratifying the Energy Charter Treaty and the PEEREA
Annex 5 Lessons learned:

<table>
<thead>
<tr>
<th>Identified Gaps or Recommended courses of intervention</th>
<th>Action for covering the Gap or implement the recommended intervention</th>
<th>Phare Programming (Project Reference) 2004-2006</th>
<th>Transition Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation in a transparent and competitive way, as part of the undertaking of the related EU aquis, of the market-based environment aimed to create agents being in excess/deficit to fulfill the obligations allocated according to the assumed obligations related to renewable energy promotion, support of energy efficiency and greenhouse gas emissions decrease.</td>
<td>Comprehensive understanding of the EU requirements and best practices, preparation of the needed market models, instruments, rules, regulations, assessment of the existing IT&amp;T infrastructure and recommendation on the infrastructure improvements, recommendation of the road map for implementation, staff training</td>
<td>Promotion of market based instruments for E-RES, energy efficiency and emission rights (Technical Assistance)</td>
<td></td>
</tr>
</tbody>
</table>
### Annex 6 – Budget breakdown

<table>
<thead>
<tr>
<th></th>
<th>Man-days (Euro)</th>
<th>Cost (Euro)</th>
<th>Total cost (Euro)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Expenditures (including overheads):</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Long term experts</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Team leader</td>
<td>190,00</td>
<td>950,00</td>
<td>180500,00</td>
</tr>
<tr>
<td>- Senior experts</td>
<td>200,00</td>
<td>850,00</td>
<td>170000,00</td>
</tr>
<tr>
<td>- Junior experts</td>
<td></td>
<td>0,00</td>
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<td><strong>Short term experts</strong></td>
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<td>850,00</td>
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<tr>
<td><strong>Total expenditure</strong></td>
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<tr>
<td><strong>MAXIMUM CONTRACT VALUE</strong></td>
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