

## Curriculum Vitae (CV)

<b>Position Title and No.</b>	Expert in the energy efficiency field
<b>Name of Expert:</b>	Mihai Lupu
<b>Date of Birth:</b>	28/12/1977
<b>Country of Citizenship/Residence</b>	Republic of Moldova

**Education:**

**Technical University of Moldova, Energy Faculty, Energy Engineering and Management**, Diploma license of Engineer-manager Serial AL Nr. 0029546. From September 1995-July 2000,

**Technical University of Moldova, Energy Faculty Master of Science program – Energy Management**, Diploma Master Serial AM nr. 001071. From September 2001 – July 2002,

**Academy of Public Administration of Republic of Moldova, Training for Strategic Management and Planning**. Period May 2012,

**USAID, Regional Program SYNENERGY, Training activities for the energy management in the public sector**. Period September 2012,

**IVL Swedish Environmental Research Institute, Training courses for Project Management**. Period December 2012,

**INOGATE Technical Secretariat Project, ESIB Training courses for Industrial Energy Audit. Analyses for Bankable Projects**. Period March 2013,

**Scientific and Technological Research Council of Turkey (TIKA), International Summer School, Energy Efficiency. Energy Management in private sector**, Period June 2013, Summer School in Istanbul,

**Energy Efficiency Agency, Training courses for Energy Auditors**. Period December 2014,

**ESCO Moldova Project Management and ENVIROS s.r.o. Training courses for private sector on Energy Performance Contracting (EPC)**. Period November 2015,

**INCERCON, Technical-professional attestation certificate no. 1313 Conductor and technical manager with the execution of specialized works and installations related to constructions, 2016**

**Contact Consulting LTD, Romania, Predeal. Training courses for public procurements**. Period April 2017,

**Standardization Institute from Moldova, Training courses for implementation standards for energy performance of buildings**, Period April 2018.

**Employment record relevant to the assignment:**

<b>Period</b>	<b>Employing organization and your title/position. Contact information for references</b>	<b>Country</b>	<b>Summary of activities performed relevant to the Assignment</b>
March 2017 - present	Institute of Power Engineering. Research and Head of laboratory for energy efficiency and renewables	Republic of Moldova	Research activities in Energy efficiency and energy audits in the electrical and thermal power installations and buildings. - Elaboration of energy audits (electrical part), in public buildings like: Clinic State Chancellery, General

	<p>For references:  Prof. Mihai Tirsu, DSc.,  Tel.: + 373 795 59 591,  <a href="mailto:tirsu.mihai@gmail.com">tirsu.mihai@gmail.com</a></p>		<p>Prosecutor's Office building, The home of the police academy, Medical institution Emergency hospital, etc.;</p> <ul style="list-style-type: none"> <li>- The elaboration of the study regarding the use of different sources of electrical energy for pumping the water in the agricultural sector of the Republic of Moldova;</li> <li>- Analysis of the impact of individual thermal power plants on natural gas on public health and on the environment,</li> <li>- Elaboration study to identify solutions for increasing the thermal load in centralized heating system by connecting / reconnecting different types of buildings for Termoelectrica aria;</li> <li>- Elaboration of the study on the barriers and opportunities for the development of SACET in Balți municipality.</li> </ul>
<p>August 2019 –  March 2020</p>	<p>GFA Group, Expert in the project MLPS/GIZ</p> <p>For references:  Mr. Roscovan Mihai,  Tel.: + 373 691 42 465,  <a href="mailto:mihai.roscovan@gfa-group.de">mihai.roscovan@gfa-group.de</a></p>	<p>Republic of  Moldova</p>	<ul style="list-style-type: none"> <li>- Responsible for the elaboration of the technical tender documentation of the energy efficiency projects funded by GIZ in the ADR South,</li> <li>- Technical Assistance for the Continuous Training Center of the Technical University of Moldova;</li> <li>- Development of the training program for district energy managers.</li> </ul>
<p>March 2018 -  present</p>	<p>Technical University of Moldova.  Coordinate module of instruction of energy auditors.</p> <p>For references:  prof. Amariei Valentin,  Tel.: + 373 695 54 959,  <a href="mailto:valentin.amariei@adm.utm.md">valentin.amariei@adm.utm.md</a></p>	<p>Republic of  Moldova</p>	<ul style="list-style-type: none"> <li>- Preparation and coordination of curriculum program for instruction energy auditors,</li> <li>- Development of the training program for energy auditors in the field of buildings;</li> <li>- Development of three training programs within the Vocational Pedagogy for the second cycle of Master;</li> <li>- Teaching courses for the energy efficiency in public buildings (legislative framework),</li> <li>- The framework regarding the quality of the works in construction of the energy efficiency projects,</li> <li>- Development model by energy managers from rayon's</li> </ul>
<p>September  2020 –  December  2022</p>	<p>UNDP Moldova, National  Consultant in contacting  Adaptation Technology Needs</p>	<p>Republic of  Moldova</p>	<ul style="list-style-type: none"> <li>- Identify priority technologies for climate adaptation;</li> </ul>

	<p>Assessment, phase II and III in energy sector</p> <p>For references: Mr. Gavrilița Pavel, Email: <a href="mailto:pavel.gavrilita@undp.org">pavel.gavrilita@undp.org</a></p>		<ul style="list-style-type: none"> <li>- Prepare climate change adaptation Barrier Analysis and Enabling Framework (BAEF)</li> <li>- Prioritization of technologies in the field of adaptation</li> <li>-</li> </ul>
March 2017 – January 2020	<p>Climate Change Office and ADA Projects Technical Expert</p> <p>For references: Mrs. Druta Ala, Tel.: +373 691 58 799, <a href="mailto:drutaala@gmail.com">drutaala@gmail.com</a></p>	Republic of Moldova	<ul style="list-style-type: none"> <li>- Development Operation Manual for engaging of National Designated Authority to the GCF projects,</li> <li>- Development the prefeasibility Study for GCF in facilitation of funding for energy generation projects from renewable sources (PVh).</li> </ul>
November 2014 – February 2017	<p>Climate Change Office and UNDP Moldova. National Consultant in monitoring, reporting and verification of NAMA s projects</p> <p>For references: Mrs. Druta Ala, Tel.: +373 691 58 799, <a href="mailto:drutaala@gmail.com">drutaala@gmail.com</a></p>	Republic of Moldova	<ul style="list-style-type: none"> <li>- Development of templates of evaluation of NAMA projects,</li> <li>- Identification of institutional capacities in the Republic of Moldova concerning reporting mode to the UNFCCC,</li> <li>- Development study for the Scaling up PVs Projects in Moldova</li> </ul>
January 2014 – October 2014	<p>Energy Efficiency Fund. Executive Director.</p> <p>For references: Mr. Calin Negura, Tel.: +373 22 22 99 60, <a href="mailto:calinnegura@yahoo.com">calinnegura@yahoo.com</a></p>	Republic of Moldova	<ul style="list-style-type: none"> <li>- Examination of project proposals, prepare and submit for approval to the project-related documentation management,</li> <li>- Signed financing agreements approved by the Board of Management</li> </ul>
September 2011 – December 2013	<p>Energy Efficiency Agency. Head of Department</p> <p>For references: Mr. Calin NEGURA, Tel.: +373 22 22 99 60 <a href="mailto:calinnegura@yahoo.com">calinnegura@yahoo.com</a></p>	Republic of Moldova	<ul style="list-style-type: none"> <li>- Participation in the laws and regulations drafting;</li> <li>- Participation in activities regarding the preparation of informative notes and reports on the development process and implementation of energy efficiency of renewable energy sources;</li> <li>- Participation in development of programs and national action plans for energy efficiency and renewable energy sources;</li> <li>- Participation in the development of the questionnaire regarding the energy consumption of public buildings in Moldova,</li> <li>- Participation in the elaboration of the standard template for energy auditing in the buildings,</li> <li>- Development of energy performance indicators for the national economy,</li> </ul>

			<ul style="list-style-type: none"> <li>- Evaluation of projects regarding the construction of the thermal power plant on solid biomass for public institutions (project Energy and Biomass),</li> <li>- Evaluation of the project regarding the piloting of a cogeneration plant in Moldova (project Energy and Biomass),,</li> <li>- Elaboration of criteria and participation in the evaluation of energy efficiency projects within the Moldova EcoEnergetica, Edition 2012, 2013 competition (the best project in the field of energy efficiency), (EEA)</li> <li>- The evaluation of the companies in establishing a public-private partnership for the development of the biomass heating infrastructure in the district of Leova, (project Energy and Biomass),</li> <li>- Technical evaluation for the implementation of energy efficiency measures in the public buildings sector, projects financed by the Energy Efficiency Fund, (EEA),</li> <li>- Technical evaluation of projects for street lighting financed by the Energy Efficiency Fund, (EEA),</li> <li>- Elaboration of tender documentation for contracting energy auditing companies, in the public buildings sector (EEA)</li> </ul>
December 2002 – September 2011	<p>LTD Energogazpurificare. Executive Director</p> <p>For references: Mr. Baraganciu Alex, Tel.: +373 22 44 30 43, <a href="mailto:energogaz2000@mail.ru">energogaz2000@mail.ru</a></p>	Republic of Moldova	Manage, exercise general supervision, directs and coordinates the works of the staff
August 2000 – December 2002	<p>Ministry of Energy of Republic of Moldova. Energy consulting</p> <p>For references: Mr. Timciuc Ian, Tel.: +373 22 22 33 20, <a href="mailto:ies@ies.md">ies@ies.md</a></p>	Republic of Moldova	Participation in the development of Lows and Energy Programs
September 2000 – July 2002	<p>Technical University of Moldova, Energy Faculty.</p> <p>For references: Prof. Valentin ARION, PhD,</p>	Republic of Moldova	Teaching courses Economy of energy sector.

	DSc., Tel.: + 373 22 23 72 82, <a href="mailto:valentin.arion@gmail.com">valentin.arion@gmail.com</a>		
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**Language skills:** (Mark 1 to 5 for competence, 5 being the highest)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Romanian	5	5	5
Russian	5	5	5
English	4	4	4

**Membership of professional bodies:**

- Member of the **Installation Engineers Association from Republic of Moldova**, member organization in the Federation of European Heating, Ventilation and Air Conditioning Associations (REHVA), professional association of the technical specialists in the field of heating, cooling, ventilation, air conditioning, sanitation, gas, automation and energy sources;
- Member of the National Coordination Comity of the SGP / UNDP project in Moldova;
- Member of the Steering Committee of the National Energy Council

**Publications:**

- *Article from Scientific Conference of Collaborators, Doctorands and Students UTM Edition 2012*, “Study and analysis of power quality indicators to enterprises in Moldova”, Chisinau 2012.
- *Analysis Concerning Replication of PV Projects in the Republic of Moldova*, International Conference SIELMEN 2017, Chisinau,
- *Generalizations regarding the use of different sources of electricity for pumping irrigation water in the agricultural sector of the Republic of Moldova*, WEC Central & Eastern Europe Regional Energy Forum “Safe and Sustainable Energy for the Region” Costinești, 10 – 14 June 2018,
- *Analysis of the impact of individual thermal power plants on natural gas on public health and the environment*, International conference COGEN 2018, Chisinau.
- *Economic aspects of net metering for photovoltaic energy prosumers*, WEC Central & Eastern Europe Regional Energy Forum “Safe and Sustainable Energy for the Region” Costinești, 7 – 10 September 2020, on line.