Curriculum Vitae

Aleksei V. Chemezov
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Personal Profile

Highly skilled and experienced professional with over 25 years in reducing greenhouse gas (GHG) emissions in the power industry, developing ESG strategies, assessing climate risks, and managing investment projects. Expert in emission inventorying and carbon reduction methodologies. Author of more than 70 scientific publications, including articles in international and Russian journals.
Specializing in the development and implementation of strategies to reduce GHG emissions and create sustainable energy solutions.

Education

- **1998:** Irkutsk State Technical University, Mining Faculty, Specialist Degree in Mining Engineering.
- **1999:** Irkutsk State Technical University, East Asian Studies Faculty, Degree in World Economy.
- **2014:** Irkutsk National Research Technical University, Master's Degree in Power Engineering and Electrical Engineering.

Academic Qualifications

- **PhD in Technical Sciences (2003):** Dissertation on "Forecasting Greenhouse Gas Emissions in the Energy Sector and Evaluating Mitigation Measures."
- **Associate Professor (2006):** Department of Economics and Management, Higher Attestation Commission (HAC), Russian Federation.

Professional Experience

Institute for Systems Energy named after L.A. Melentiev, Siberian Branch of the Russian Academy of Sciences

Leading Specialist
Duration: 25+ years

- Conducted GHG emissions assessments for power plants, calculating gross and specific emissions.
- Developed eco-efficient methods for CO2 reduction for thermal power stations.
- Participated in international research projects, assessing Russia's compliance with global climate commitments.
- Modeled long-term energy development in Russia, considering international climate obligations.

Key Research and Projects

1. **Validation Expert for GHG Reduction Projects (Germany, 1999-2000):**
    - Calculated baseline emissions and total CO2 reductions for the transfer of emission quotas in compliance with international agreements.
2. **Energy and Resource Assessment Project (Japan, 2019):**
    - Assessed the potential for coal reserves in Russia, aligning with Japan's energy needs.
3. **Energy Strategy for Irkutsk Region (2023-2024):**
    - Forecasted fuel consumption and calculated CO2 emissions to enhance the region's environmental performance.

Publications and Research

Total publications: 73
Research focus includes the reduction of GHG emissions in the energy sector, methods of CO2 emissions inventorying, and climate risk analysis.

Selected Publications:

- Potapov V.V., Tchemezov A.V., Tchemezova E.Yu. *"ESG Strategies for Power Industry Companies"*, Irkutsk, 2023.
- Tchemezov A. *"Prospects for New Technologies in Russia’s Electric Power Industry for CO2 Emission Reduction"*, E3S Web of Conferences, 2018.
- Tchemezov A.V. *"Feasibility of Establishing a CO2 Emissions Trading Market in Russia"*, Irkutsk, 2017.

Research Interests and Skills

1. **Development and Implementation of ESG Strategies:**
   Creation and implementation of strategies to reduce GHG emissions, carbon capture, afforestation, and participation in global climate initiatives.
2. **Climate Risk Assessment and Planning:**
   Expertise in evaluating climate risks and their impact on the long-term sustainability of projects. Skilled in assessing geopolitical, financial, and environmental risks in investment projects.

3. **Financial Modeling and Project Efficiency Assessment:**
   Extensive experience in developing financial models for energy sector investment projects. Skilled in using NPV, IRR, and sensitivity analysis to assess project viability and risks.
4. **Analysis of External Factors Impacting Projects:**
   Conducting multi-factor analysis of external influences such as geopolitical, currency fluctuations, and global trends, incorporating these factors to enhance project profitability and security.
5. **Industry Knowledge:**
   In-depth knowledge of the oil and gas industry, gas chemistry, and electricity generation, enabling efficient identification of opportunities to increase investment effectiveness.
6. **Technical Solutions Efficiency Assessment:**
   Experience in evaluating the efficiency of specific technical solutions in investment projects, including calculating the total cost of ownership within large-scale tenders.

Skills

- **Investment Analysis Tools:** Expertise in assessing the economic feasibility of energy sector projects using tools such as NPV, IRR, DPP.
- **Software Proficiency:** Advanced user of MS Office (Excel, Word, PowerPoint, Publisher, Outlook), Matlab, GAMS.
- **Languages:** English (B1), German (A2).
- **Management Skills:** Project management, team leadership, and cross-functional collaboration. Ability to interact with stakeholders and lead multi-disciplinary teams.

Awards and Recognition

- **2020:** Recognition for Excellence in Climate Risk Analysis by the Russian Federation’s Ministry of Energy.
- **2018:** Awarded the Medal for Outstanding Contributions to Environmental Protection (Russian Federation).

Personal Attributes

- Strong organizational and leadership skills with a track record of managing large-scale projects.
- Excellent communication abilities, capable of effectively engaging with academic, governmental, and industry stakeholders.
- Detail-oriented and systematic approach to project execution and problem-solving.