

# RASEL HOSSAIN, MBA, P.Eng.

## PERSONAL PROFILE

STRATEGIC LEADERSHIP | REGULATORY COMPLIANCE | POLICY DEVELOPMENT

*With over 15 years of leadership in regulatory management, Indigenous relations, and resource stewardship, I bring a proven record of driving innovation and advancing Alberta's regulatory objectives. Recognized for strategic vision and results-driven leadership, I excel in enhancing regulatory efficiencies, building strong partnerships with Indigenous communities, governments, and industry, and leading high-performing teams. My experience spans impactful roles in the **Government of Alberta, Crown Indigenous Relations and Northern Affairs Canada**, and the private sector, delivering sustainable solutions and meaningful progress.*

## HIGHLIGHT OF EXPERIENCES

- **Positioned Alberta Energy Regulator as a best-in-class regulator**, earning international recognition for regulatory excellence by driving innovative approaches that balanced economic development with environmental stewardship under the Responsible Energy Development Act.
- **Led transformative initiatives**, including *Canada's Water for Life* strategy and advancing the remediation economy in Canada's North with Indigenous partnerships. Demonstrated strong project leadership and risk management by overseeing high-impact programs, earning accolades such as the Global Petroleum Show Leadership Nominee Award and Governor General's Commendation for Outstanding Service.
- **Excelled in community leadership and volunteerism**, serving on APEGA's Board of Examiners, driving impactful campaigns like the Government of Canada Workplace Charitable Campaign (GCWCC) and United Way (receiving Core to the Community and Donor Growth Awards), and contributing to organizations such as the Bangladesh Canada Association of Edmonton (BCAE), Association of Bangladeshi Engineers of Alberta Canada (ABEAC), Canadian Water and Wastewater Association (CWWA), and Water Environment Federation (WEF), International Produced Water Association, Global Petroleum Show Technical Committee, Arctic Energy Resources Symposium.

## EDUCATIONAL QUALIFICATIONS

**Master of Business Administration (MBA)**, School of Business, University of Alberta

**M.Sc. in Environmental Engineering**, Department of Civil and Environmental Engineering, University of Alberta

**B.Sc. in Civil Engineering**, Indian Institute of Technology Madras, India

## BOARD MEMBER

APEGA Board of Examiners, Registration Committee, 2019-2024 | International Produced Water Society 2019 | Global Petroleum Show Technical Committee 2018-2020 | Chair, Western Canada Water and Environment Association 2016-2019 | Board of Director, Western Canada Water and Wastewater Association 2016-2017 | Bangladesh Canada Association of Edmonton 2003-2013 | Association of Bangladeshi Engineers of Alberta Canada 2019-2022 |

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## PUBLICATION

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An accomplished thought leader, I have authored over 35 publications on **Remediation Economy**, **Regulatory Transformation**, and **Intelligent Water Management**, contributing to advancements in sustainable development and environmental stewardship. I have delivered keynotes at national and international conferences, showcasing expertise in regulatory compliance, innovative resource management, and strategies for achieving sustainability. My work reflects a commitment to driving meaningful change and influencing best practices across industries.

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## AWARD

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A recognized leader with a history of excellence, I have been nominated multiple times for the Deputy Minister Award and the Premier's Award, highlighting my impactful contributions to public service. My accolades include the Global Petroleum Show Leadership Nominee Award, the Governor General of Canada Commendation for Outstanding Service for my leadership during the City of Calgary flood response, and two United Way Calgary Awards: Core to the Community and Donor Growth. Academically, I was honored with the University of Alberta Graduate Student Award (Minister of Learning) and the Indian Council for Cultural Relations (ICCR) Scholarship from the Government of India. These achievements reflect my dedication to leadership, community service, and continuous excellence in both professional and academic domains.

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## PROFESSIONAL EXPERIENCE

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### **Government of Alberta, Environment** *Regulatory Specialist*

**2024-present**

As a visionary leader in regulatory management, I collaborated with a multidisciplinary team to administer the Water Act, Environmental Protection and Enhancement Act, and Waste Control Regulation in resource-challenging regions. By advancing risk-based and outcome-based regulatory approaches, I enhanced program efficiency and ensured responsible resource management across Alberta's critical sectors. Committed to reconciliation, I worked closely with Indigenous communities, aligning water resource management with sustainable development goals. I developed strategic water conservation initiatives and implemented regulatory improvements to address cumulative environmental impacts, fostering a balance between economic growth and environmental stewardship. My leadership underscores a dedication to innovation, sustainability, and collaboration in regulatory practices.

### **Government of Canada, Crown Indigenous Relations and Northern Affairs** **Regional Director, Contaminants and Remediation Directorate**

**2020 – 2024**

As a proven leader in contaminated sites management and regulatory oversight, I directed a multidisciplinary team of 30 professionals in the Northwest Territories, overseeing environmental sustainability and advancing economic reconciliation. Managing an annual budget of \$52 million and addressing \$3.1 billion in liabilities across 673 contaminated sites, I ensured rigorous regulatory compliance and successful remediation of high-profile projects like Rayrock Mine and O'Connor Lake Mine. Collaborating closely with Indigenous partners, territorial governments, and federal agencies, I delivered socio-economic benefits, including employment and training opportunities for Indigenous communities. As Chair of the Waste Sites Management Committee under the Northwest Territories Devolution Agreement, I provided strategic leadership and advanced land-claims negotiations. I developed the innovative Remediation Economy Framework, presented at the 2023 Northern Development Ministers' Forum alongside Minister Vandal, receiving accolades for its alignment with

economic reconciliation principles. These achievements reflect a commitment to integrating environmental stewardship with meaningful partnerships and sustainable development goals.

**Government of British Columbia, Ministry of Forests, Land, Natural Resource Operations and Rural Development**

**Leader, Sensitive Stream, Water Resource Act**

**2019- 2020**

As a results-driven leader, I successfully managed a team of 18 professionals, overseeing water resource projects under the Water Sustainability Act and achieving a remarkable 67% reduction in application backlogs. My efforts advanced reconciliation with Indigenous communities by integrating water resource management with sustainable development goals, fostering collaborative and respectful partnerships. I spearheaded the development of strategic water conservation initiatives and implemented regulatory improvements to address cumulative environmental impacts, ensuring sustainable water resource management. My work reflects a strong commitment to environmental stewardship, regulatory efficiency, and the advancement of reconciliation through meaningful engagement and innovation.

**Global Advanced Technology**

**2017 – 2020**

**Chief Operating Officer, Technology Development**

I led innovative collaborations with Canada's Oil Sands Innovation Alliance (COSIA), Alberta Innovates (AI), the National Research Council (NRC), and the University of Calgary to advance solvent-based extraction technology for Alberta's unconventional resources. This initiative focused on reducing water usage, minimizing environmental impacts, and enhancing recovery efficiency, demonstrating a commitment to sustainable resource development. In this role, I directed regulatory compliance with provincial and federal standards and developed a comprehensive technology commercialization strategy. By positioning solvent-based extraction technology within the market, I successfully aligned innovation with environmental stewardship, advancing Alberta's goals for responsible resource development and technological leadership.

**Stantec Global Team**

**2016 – 2019**

**Principal, Oil and Gas- Water**

As a global leader in water management, I have successfully directed projects in the oil and gas and mining sectors, driving sustainable practices and ensuring regulatory compliance in complex industrial environments. My efforts have integrated innovative conservation measures into resource extraction, achieving minimal environmental impact while advancing sustainable resource management. I have mentored and developed talent within a global team, fostering technical excellence and leadership. Collaborating with Indigenous leaders on environmental projects, I delivered culturally attuned regulatory solutions that align with community values and environmental goals. Recognized for my contributions to water management innovation, I was **nominated for the 2018 Global Petroleum Show Leadership Award**, reflecting my commitment to excellence and impactful leadership.

**Alberta Energy Regulator – Executive Advisor**

**2013 – 2016**

As a strategic leader in regulatory management, I have driven excellence under the Responsible Energy Development Act, spearheading initiatives that streamlined operations and enhanced effectiveness. I played a pivotal role in consolidating three hydrocarbon regulatory entities, significantly improving operational efficiency and ensuring alignment with industry and community needs. I directed transformative digital initiatives, optimizing data management and regulatory workflows, and led the Water Return Project under the Tailings Management Framework, focusing on progressive reclamation to benefit Indigenous communities reliant on local water resources. My collaborative efforts on the Fort McKay Air Quality Initiative integrated Indigenous perspectives into regulatory solutions, resulting in culturally attuned and responsive air quality management practices. Additionally, I partnered with the University of Pennsylvania and Albertans to develop a global benchmark for regulatory excellence,

setting a high standard for innovation and stakeholder engagement. My work reflects a commitment to sustainability, cultural sensitivity, and operational leadership.

**City of Calgary – Water Services  
Leader, Planning and Analysis**

**2013**

As a strategic leader, I directed a multidisciplinary Planning and Analysis Team of 32 members, shaping the city's growth through comprehensive long-term and short-term infrastructure planning. I provided strategic guidance for the development of infrastructure plans and oversaw budgets exceeding \$1 billion, ensuring alignment with the city's growth trajectory and sustainability goals. During the significant June 2013 flood response, I demonstrated exemplary leadership, coordinating infrastructure resilience efforts and earning a Governor General Commendation for Outstanding Service. My ability to integrate strategic planning with effective crisis management underscores my commitment to fostering sustainable growth and enhancing community resilience. I bring a proven track record of aligning city planning initiatives with growth management objectives, delivering innovative and actionable solutions that support both immediate and long-term urban development needs.

**Government of Alberta – Various leadership roles**

**2003 – 2013**

*Environmental Sustainable Resource Development*

As a seasoned leader in regulatory management, I directed a multidisciplinary team of up to 25 professionals to administer the Water Act, Environmental Protection and Enhancement Act, Alberta Land Stewardship Act, and Waste Control Regulation in industrially challenging regions. I pioneered risk-based and outcome-based regulatory approaches, significantly enhancing program efficiency and promoting responsible resource management across Alberta's critical sectors. I also developed and implemented a First Nations Drinking Water Abatement Strategy, ensuring all Albertans, including Indigenous communities, have access to safe and secure drinking water. My leadership reflects a commitment to regulatory excellence, sustainable resource stewardship, and advancing equity in essential services.

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**LEADERSHIP TRAINING AND PROFESSIONAL MEMBERSHIP**

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A seasoned Professional Engineer, APEGA since 2006 with extensive leadership training and certifications, I bring a robust foundation in strategic management, project execution, and stakeholder engagement. I hold the Project Management Professional (PMP) designation and have completed Director Leadership Training with the Alberta Energy Regulator and Executive Leadership Training at the Canada School of Public Service.

My expertise includes media relations training across multiple years (2006, 2013, 2021, 2022) and an in-depth understanding of Indigenous cultures through the completion of 12 Modules on Indigenous Canada from the University of Alberta's Faculty of Native Studies. This diverse training portfolio reflects my commitment to professional excellence, cultural awareness, and impactful leadership.

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