CEEC
THE FUTURE

BUILDING ON OUR FOUNDATIONS

Moving knowledge into action



ANNUAL REPORT 2025–2026

CEEC
THE FUTURE

Our Mission

To accelerate the adoption of eco-efficient minerals and metals production practices.

Our Vision

Is to support the global resources sector to provide the minerals and metals for society with the lowest impact, including water, emissions and wastes. We will do this through knowledge sharing, cross sector collaboration, and advocacy of eco-efficient practices.



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Chair's Report



I have now been 4 years in the position of Chair of CEEC and we've seen a lot of change in that time. Much like the current COP 31 conference in Türkiye, CEEC is also moving from a phase of planning and strategy to implementation and execution. In 2025/26, we have been working hard to deliver real-world projects across our continued focus on water and tailings, and a renewed look at our original areas of energy consumption and greenhouse gas emissions.

The CEEC team, led by Heather Ednie, has grown in the past year and we're well placed to magnify our impact across the industry. You may have already seen us at conferences, holding workshops and of course with the CEEC Medal – and we look forward to continuing this work. Our current flagship work in both mining and tailings continues to deepen and the work we're doing bringing together academia and the industry we feel is having a positive impact overall.

We have also been working hard on a project for a mining specific technology readiness level assessment. Details on our projects are of course throughout this annual report. We have also recently kicked off a series of workshops concentrating on energy and greenhouse gas emissions for the mining industry. We are currently using this time to understand what the industry needs and where we can have maximum impact – with a view to turning this into a project plan through 2027.

We continue to make use of the generous funding received from the Grantham Foundation and are working to diversify our income streams to ensure we have long-term financial sustainability. Keep an eye on our social media to see how CEEC supporters can get involved.

CEEC wouldn't be in the position we're in without the support of our Advocate Network and our sponsors. We continued to expand our advocate network during the year and have an excellent group of supporters who provide us with critical advice and volunteer hours to underpin our mission. Our sponsors are critical to our long-term success. Expect to see more of what we do in coming months as we continue engaging with and growing our sponsorship base.

As mentioned, we're very much in the operationalization phase of our work and looking to continue our work in our primary pillars of delivery. This will of course require the continued support of sponsors, advocates, the CEEC team and the board and I'm excited about where we are taking things in 2027 and beyond.

Marc Allen
Chair

Executive President's Report



What a year it's been for CEEC International!

When I joined CEEC in October 2025, I was excited by the opportunity to work with an organisation that has such a strong reputation and an incredible network of people who genuinely care about making a difference in our industry. Over the past year, I've had the pleasure of getting to know many of our Directors, Advocates, sponsors and collaborators, and one thing has become very clear: CEEC's greatest strength is its people.

For more than a decade, CEEC has been built on the passion, expertise and generosity of volunteers who've given their time to champion more eco-efficient minerals and metals production. Their contributions have established CEEC as a trusted, independent voice in the industry and created the foundations for everything we're doing today. It's something we should be incredibly proud of, and something I'm committed to building on.

This year has largely been about getting ready for our next chapter. We've been busy strengthening our team, developing frameworks, establishing partnerships and putting structures in place to deliver on the ambitions of our 2025-2028 Strategic Plan. With the generous support of the Grantham Foundation and our valued sponsors, we've been able to invest in the people and capabilities needed to take our initiatives further, while continuing to draw on the knowledge and experience of our global volunteer network.

And there's been plenty happening across our initiatives!

Our Global Water Initiative has continued to build a valuable foundation of research and knowledge, with the publication of the Water Knowledge Baseline and the Communities Study. Our Global Tailings Initiative has gained momentum through industry workshops and collaboration, publishing a white paper, and bringing together experts to rethink how decisions made earlier in the processing flowsheet can lead to better tailings outcomes.

We've also been developing our Energy & Emissions Initiative, building on CEEC's long-standing work in comminution efficiency, and progressing the Mining Technology Readiness Level (mTRL) program to help address some of the challenges associated with bringing new technologies into mining operations. Alongside these initiatives, we're exploring new approaches, including mine archetypes and integrated design, that encourages us to look beyond individual challenges and consider the bigger picture.

Much of this work has been about bringing people together, asking questions, challenging assumptions and building the frameworks that will guide our next steps. Not everything happens overnight, but the conversations, relationships and groundwork established this year are creating some really exciting opportunities.

One of the things I value most about CEEC is our ability to bring people together across organisations, disciplines and regions. The challenges facing industry are complex, and no single organisation has all the answers. By creating opportunities for open collaboration and sharing knowledge, we can help move good ideas forward and make it easier for industry to put them into practice.

With a growing team, stronger capabilities and clearer direction across our initiatives, we're moving from building the foundations to putting them into action. We'll be expanding our industry engagement, progressing our projects and developing practical resources that can help turn shared knowledge into meaningful outcomes.

I want to sincerely thank our Board, Advocates, sponsors, partners and everyone who has contributed their time and expertise to CEEC. Our volunteers have brought us to where we are today, and their continued involvement will be just as important as we move forward.

We've got a busy and exciting year ahead, and I'm really looking forward to seeing what we can achieve together!

Heather Ednie
Executive President & Director

Our Network and Partnerships

CEEC's work depends on trusted relationships across mining companies, technology suppliers, research organisations, independent specialists and professional networks. Sponsors and partners contribute more than funding; they also bring operating questions, technical expertise, access to practitioners and opportunities to test ideas in realistic settings.

Across the year, CEEC strengthened the connections between its initiatives and broadened its capacity to coordinate research, technical engagement and knowledge sharing. Its Advocates and Technical Advisory Group continued to contribute independent expertise, while partnerships with institutions including The University of Queensland, Univeristy of British Columbia, and the Bradshaw Research Institute for Minerals and Mining (BRIMM) and industry organisations supported new reports and collaborative activities.

The multi-year support of the Grantham Foundation has helped CEEC invest in the people and systems needed to expand this work. Agnico Eagle and Weir remain important supporters of the Global Water Initiative, with Weir also supporting the Global Tailings Initiative. We thank all sponsors, partners, Directors and Advocates for their contribution and look forward to developing partnerships focused on demonstrable shared outcomes.

Thanks to CEEC's partners and supporters Amira Global, Austmine, Eriez, Gekko Systems, Gecamin, Global Mining Guidelines Group, Maptek, ME Elecmetal, MICA, Minerals Engineering International, Mining3, Metplant, Molycop, ReThink Mining, UQ Sustainable Minerals Institute, The Intelligent Miner.

CEEC Medal



CEEC International proudly announced the winners of the prestigious CEEC Medal, celebrating outstanding contributions to energy-efficient, water-smart, and sustainable mineral processing.

The selected papers demonstrate the practical innovation, collaboration and technical excellence needed to reduce energy and water use, improve tailings management and accelerate the adoption of more sustainable processing practices.

Technical Research Medal

Winner

NovaCell™ Pilot Performance at Mantos Blancos: Advancing Toward Full-Scale Implementation

Authors: Alfonso Flores, Emily Jaques, Peter Amelunxen, Brandon Akerstrom, Jim Orlich, Leonardo Parraguez, Mario Saavedra, Lonn Cooper and Sherwin Morgan.

Presented at Mill Operators Conference in Brisbane, the paper details the pilot-scale application of NovaCell™ technology at Capstone Copper's Mantos Blancos operation in Chile. The work demonstrates the value of collaboration between mining operations, technology providers and technical specialists in advancing innovative flotation technology towards full-scale implementation.



CEEC Director Grant Ballantyne with CEEC Medal recipients (Technical Research)



CEEC Director Grant Ballantyne with CEEC Medal recipients (Operations & Design)

Operations & Design Medal

Winner

Extending the Dry Processing Route

Authors: Jan Martens, Carsten Gerold, Rodrigo Ferrari and Juan Frausto.

Presented at Tailings 2026, the paper examines opportunities to extend dry processing within mineral processing flowsheets. The work reflects the growing importance of technologies and plant designs that can reduce water requirements and support more efficient mineral production.

CEEC Medal

High Commendation - *Technical Research*

Hybrid Processing of Low-Grade Itabirites: Coupling Dry Magnetic Concentration and Froth Flotation to Produce High-Grade Concentrates and to Eliminate Tailing Dams

Authors: Benito Barbabela e Silva, Anderson de Araújo Soares, Monica Guimarães Vieira, Livia Mara Cândido, Arthur Pinto Chaves and Maurício Guimarães Bergerman.

Published in Mineral Processing and Extractive Metallurgy Review, the paper explores a hybrid processing route combining dry magnetic concentration and froth flotation. The research highlights the potential to recover value from low-grade resources while reducing reliance on conventional wet tailings storage.

High Commendation - *Operations & Design*

Merged Approach to Optimize Water Management and Tailings Storage Capacity at the San Ciprián TSF

Authors: Iván Orea, Carmen Rial and Dean Ilievski.

Presented at Tailings 2026, the paper considers an integrated approach to water management and tailings storage capacity at the San Ciprián tailings storage facility. It demonstrates how operational and design strategies can work together to improve water management and support more effective use of existing tailings infrastructure.



Benito Silva, High Commendation recipient (Technical Research)



Igor Elias with CEEC Medal recipient Mario Saavedra (Technical Research)

The CEEC Medal Evaluation Committee congratulates all winners and authors for their exceptional contributions. Their work showcases innovation, collaboration, and leadership in advancing more sustainable practices in mining and mineral processing.

Nominations are now open for the 2026 CEEC Medal. We encourage industry professionals, researchers, and practitioners to put forward outstanding work that drives measurable improvements n energy, water, tailings, and emissions management.

Global Water Initiative

Water choices shape mineral processing performance, costs, environmental outcomes and relationships with communities. CEEC's Global Water Initiative brings together technical and social perspectives so that water can be considered earlier and more systematically across a mine's life cycle.

Neo-Marvin Case Study

The Neo-Marvin case study with Whittle Consulting has examined the links between water supply and use, mineral processing, tailings configuration and project value. Building on earlier modelling, a second phase explores further processing and deposition scenarios, with support from Eriez and in-kind input from Anglo American. The work is designed to help decision-makers examine water implications as part of mine planning rather than after major design choices have been made.

Water Knowledge Baseline

In February 2026, CEEC published the first edition of the Water Knowledge Baseline, developed by the Sustainable Minerals Institute at The University of Queensland. The work consolidates knowledge and identifies gaps that can guide research and practical water-management decisions. The next phase is underway and is intended to broaden its geographic and linguistic coverage, including Latin America is underway to publish in December 2026, and explore how the baseline can be maintained as new knowledge emerges.

Communities Study

Research by Dr Jocelyn Fraser and Dr Nadja Kunz examined how communities and Indigenous rights-holders participate in decisions about water and mineral processing. It highlights that trust, accessible technical information and meaningful opportunities for engagement matter as much as the engineering choices themselves. CEEC's aim is to help connect those perspectives to the processes through which technologies and projects are evaluated.

The Global Water Initiative continues to evolve as a platform for collaboration and innovation. By connecting industry, researchers, and communities, CEEC is helping to accelerate the adoption of better water practices across the mining value chain. The coming year will see further outputs from each of the GWI projects, along with new opportunities to engage directly through CEEC-hosted workshops and publications.

On behalf of the CEEC Board and team, we extend our sincere thanks to all partners, researchers, and sponsors who make this initiative possible. Together, we are shaping a future where mining is not only more eco-efficient but also more socially responsible in its approach to water.

AGNICO EAGLE

WEIR Mining technology for a sustainable future

Whittle Consulting Integrated Strategic Planning for the Mining Industry

ERIEZ

SMI Sustainable Minerals Institute

Global Tailings Initiative

The Global Tailings Initiative (GTI) focuses on improving tailings outcomes by looking beyond the storage facility and considering decisions made much earlier in the mineral processing flowsheet. Factors such as ore preparation, particle size, mineral processing, water chemistry and dewatering all influence the options available for safer, more efficient and sustainable tailings management.

Over the past year, CEEC has brought together technical specialists from across the minerals sector to challenge conventional approaches, explore opportunities for integrated design and develop a shared understanding of how earlier decisions can improve downstream tailings outcomes.

In March 2026, CEEC hosted Transforming the Flowsheet for Tailings in Adelaide, bringing together specialists in mineral processing, dewatering and tailings management. Through technical presentations and facilitated exercises, participants explored how different mine archetypes and operating conditions influence flowsheet decisions, and how those decisions may change as new information and constraints emerge.



Adelaide workshop participants



Santiago workshop participants

Building on the Adelaide workshop, CEEC convened a second industry workshop in Santiago, Chile, in September 2026, alongside the Gecamin Tailings 2026 conference. The workshop brought together experts, extending the conversation to a different regional and operational context. Together, these workshops have strengthened collaboration across disciplines, challenged traditional assumptions and helped identify opportunities for further technical investigation.

An important milestone for the initiative was the publication of CEEC's Global Tailings Initiative White Paper in November 2026. Drawing on the initiative's technical engagement and collaborative work, the white paper brings together key insights on the relationship between mineral processing decisions and tailings outcomes. It provides a foundation for further industry discussion and helps establish priorities for the next phase of the initiative.

Looking ahead to 2027, CEEC is developing a collaborative testwork project to investigate how material characteristics and processing conditions influence tailings behaviour and performance. The proposed work will explore factors such as particle size distribution, ultrafines, clay content and water chemistry, helping build a stronger technical evidence base for evaluating alternative processing and tailings management approaches.

With the continued support of Agnico Eagle, Weir, Ausenco, our technical contributors and volunteer network, the Global Tailings Initiative is progressing from collaborative workshops and shared knowledge towards practical investigation.

This next phase will build on the frameworks, partnerships and technical foundations established to date, with a focus on developing knowledge that can support more integrated and eco-efficient tailings solutions.

Energy and Emissions Initiative

CEEC's Energy & Emissions Initiative (EEI) supports industry efforts to reduce energy use and emissions in ways that are practical, investable and grounded in operating reality. It builds on CEEC's longstanding work in comminution efficiency and extends it to the wider set of decisions that shape a site's energy and emissions profile, from mine and process design to power supply and operations.

To guide the development of the initiative, CEEC launched a global series of industry roundtables in October 2026 spanning Toronto, Perth, Brisbane, Vancouver and Santiago. The series brings together mining companies, technology and service providers, and researchers. Input gathered will be the basis for building an initiative framework and three-year program of work focused on where collaborative effort can add the most value.

Early discussions have surfaced several recurring themes:

- access to reliable, low-emissions power
- the long-term energy impact of early design decisions
- the need for trusted, connected data and evidence to reduce the risk of adopting new technologies
- investment approaches that better reflect long-term value

Participants also consistently noted that many of these challenges cannot be solved by any one company alone. The series continues through the remainder of 2026, and the combined insights will shape the initiative's focus areas from 2027.

CEEC welcomes involvement from individuals and organisations interested in contributing expertise, sharing knowledge or collaborating on future projects as the EEI moves into its next phase.



Participants of roundtable sessions in Toronto, Perth and Brisbane

Mining Technology Readiness Level

CEEC's Mining Technology Readiness Level (mTRL) program is developing a common framework for assessing how ready a mining technology is for deployment. The framework takes into account the conditions of the site where the technology would be used. It adapts the Technology Readiness Level approach first developed by NASA to the realities of mining operations.

CEEC started this work because readiness is currently assessed and described inconsistently across the industry. Developers, operators, investors and researchers use the same terms to mean different things. That makes evidence hard to compare and leaves adoption risks poorly understood. Technical maturity on its own also doesn't predict success at a mine. Many other factors shape whether a technology is ready, including operating conditions, integration with the wider mine and plant, maintainability, scale-up evidence and the capability of the adopting operation.

A shared, mining-specific framework will give the industry a common language for these discussions. It will help operators evaluate technologies against their own site conditions and help developers understand what evidence operators need. It will also show where gaps in evidence are holding back adoption. It is intended as a practical decision-making tool, not a certification scheme or a ranking of technologies.

In November 2025, CEEC published the program's Charter, setting out its purpose and governance. A Steering Committee of industry and technical experts was established to guide the work. Phase 1, completing this November, established the foundations of the framework through consultation and technical review. That work drew on outside expertise, including Patricia Beauchamp of NASA's Jet Propulsion Laboratory, one of the main authors of NASA's TRL standard. She contributed to discussions on consistent definitions, education and adoption pathways.

Phase 2, launching in January 2027, will refine and test the framework with industry and develop supporting tools and education materials. CEEC invites members interested in contributing to the next phase to get in touch.

Archetypes Project

CEEC is developing a flowsheet archetypes framework to better understand how orebody characteristics, mineral processing choices and operating environments influence energy use, water consumption and tailings outcomes.

Initially focusing on copper, gold, iron ore and nickel, the project examines common processing approaches and how differences in ore characteristics can influence flowsheet selection, operational performance and environmental impacts. By identifying these relationships, the framework aims to highlight opportunities for more efficient processing and the adoption of emerging technologies.

Building on the initial framework, CEEC is exploring research collaborations to further develop the archetypes, investigate patterns across different mining operations and identify opportunities to improve economic and sustainability outcomes.

This emerging work has the potential to connect insights across CEEC's initiatives and support more informed decisions about future mineral processing practices.

From Groundwork to Delivery

In 2027, CEEC's focus moves from groundwork to delivery. Across our initiatives, we will turn this year's frameworks, workshops and hypotheses into tested evidence and practical tools for industry.

OUR OBJECTIVES FOR 2027

TAILINGS

Publish the testwork results.

The Global Tailings Initiative's laboratory program will be completed and its results published openly. The program tests the hypotheses in Transforming the Flowsheet for Tailings and also shows how this type of tailings testwork can be done. The next step is to move from indicative evidence to proven results using real operating data.

ENERGY & EMISSIONS

Set a three-year plan.

Drawing on the global roundtable series, CEEC will finalise the Energy & Emissions Initiative's framework and a three-year program of work. We will also begin the first collaborative projects within it.

mTRL

Test the framework with industry.

Phase 2 of the Mining Technology Readiness Level program begins in January 2027. It will refine the framework and test it against real technology assessments with operators and developers.

WATER

Advance the Global Water Initiative.

CEEC will expand the Water Knowledge Baseline with new topics in Phase 3, advance Phase 2 of the Communities project by bringing Indigenous rights-holders and design engineers together for a mine-planning simulation, and launch Phase 3 of the Neo-Marvin case study.

KNOWLEDGE SHARING

More evidence, more often, in more useful formats.

With CEEC's new website launching in December 2026, we will develop and share more knowledge and make it available in a wider range of formats. That will include reports, practical tools such as infographics, checklists and case studies, podcasts and webinars, and workshops and short courses. We will also expand the knowledge and opportunities we offer in Spanish, particularly for the Latin American mining community.

INTEGRATED DESIGN

Bring disciplines together.

The Flowsheet Archetypes project will develop a method for comparing the energy, water, environmental and cost impacts of process options. The Communities project will bring Indigenous rights-holders and design engineers together in a mine-planning simulation.

Get Involved

These objectives depend on industry participation. In 2027, we are asking industry participants to:

1

Contribute operating data

Particularly to the tailings work, so the evidence reflects real plant conditions.

2

Test the mTRL framework

Use it on technologies you are currently assessing.

3

Join or host collaborative projects

Get involved in the Energy & Emissions Initiative as its program takes shape.

4

Bring your technical specialists

Take part in CEEC workshops and working groups.

WHAT SUCCESS LOOKS LIKE

By the end of 2027, we want to point to specific cases where CEEC's work changed a technology choice, a design decision or an investment case. We can only get there with members contributing to the work.

Board of Directors



Marc Allen
Chair



Heather Ednie
Executive President



Alex Blood



Andrew Nash



Chris Greet



Eric Wasmund
TAG Chair



Grant Ballantyne



Ingrid Oyarzun



Philip Bangerter
ARC Chair



Priscila Esteves

Thank you to our Directors who retired during the 2025/2026 year, including Bryan Rairdan, Joe Pease, and Mario Drapeau for their valued contribution and support of CEEC.

CEEC Team



Heather Ednie
Executive President



Igor Elias
Director Technical Engagement & Growth



Suzanne Campbell
Company Secretary / Business Manager



Jillian Huth
Executive Services & Communications Officer



Maurizio Finucci
Portfolio & Program Manager - Tailings



David Sanguinetti
Portfolio & Program Manager - Water



Andrea Nichiporuk
Content Production Manager



Silvia Sales
Regional Communications & Engagement Consultant - LATAM

Meet Our Advocates



Alex Bertram
United States of America



Andrew Vietti
South Africa



Bryan Rairdan
Canada



Caroline Woywadt
Germany



Chih-Ting Lo
Canada



Evert Lessing
Finland



Greg Lane
Australia



Janine Herzig
Australia



Joe Pease
Australia



Laurie Reemeyer
Canada



Malcolm Powell
Australia



Mario Drapeau
Canada



Michael Battersby
United Kingdom



Michael Myllynen
Australia



Mike Daniel
Australia



Nadja Kunz
Australia



Peter Ameluxen
Canada



Peter Radziszewski
Canada



Robert McIvor
United States of America



Sarah Boucaut
Australia



Tom Payten
Australia

Statutory Finance Reports

Income Statement
For the year ended 30 June 2026

	Note	2026 $	2025 $
Income			
Sponsorship		220,000	282,955
Grantham Foundation Grant		-	1,528,495
Global Water Initiative		150,000	95,455
Interest received		39,970	9,093
Overseas Workshop Income		-	10,000
Total Income		**409,970**	**1,925,998**
Expenses			
ASIC		822	-
Audit and Accounting		6,262	-
Contractor		3,994	1,188
Bank Fees & Charges		119	140
Legal Fees		3,152	1,167
Debtor Write Off		-	25,000
Computer Expenses		2,286	5,181
Exchange Loss		1,013	50,044
Insurance		9,042	8,094
Postage		262	213
Printing & Stationery		-	27
Software		4,555	-
Technical Project Expenditure		367,192	292,725
Training & Development		117	980
Telephone		714	676
Travel, Accommodation & Conference		6,537	(1,430)
Wages		302,833	168,178
Communication & Marketing		9,837	39,832
Total Expenses		**718,737**	**592,015**
(Loss)/Profit Before Income Tax		(308,767)	1,333,983
Income Tax Expense			-
(Loss) /Profit After Income Tax		(308,767)	1,333,983

Statutory Finance Reports

Statement of Financial Position
As at 30 June 2026

	Note	2026 $	2025 $
Assets			
Current Assets			
Cash Assets	3	1,317,541	1,643,477
Receivables		50,000	41,043
Total Current Assets		1,367,541	1,684,520
Total Assets		1,367,541	1,684,520
Liabilities			
Current Liabilities			
Payables		7,545	(748)
Prepaid Sponsorship		-	25,000
Provision for Annual Leave		20,387	11,872
Total Current Liabilities		27,932	36,144
Total Liabilities		27,932	36,144
Net Assets		1,339,609	1,648,376
Equity			
Retained Profits		1,339,609	1,648,376
Total Equity		1,339,609	1,648,376

Statutory Finance Reports

Statement of Changes in Equity
For the Year Ended 30 June 2026

2025	
Balance at 1 July 2024	314,393
Profit for the Year	1,333,983
Balance at 30 June 2025	1,648,376
2026	
Balance at 1 July 2025	1,648,376
Loss for the Year	(308,767)
Balance at 30 June 2026	1,339,609

Statement of Cash Flows
For the Year Ended 30 June 2026

	Note	2026 $	2025 $
Cash Flow from Operating Activities:			
Receipts from Customers		407,000	2,108,594
Payments to Suppliers and Employers		(772,906)	937,431
Interest Received		39,970	9,093
Net Cash (Used In)/Provided by Operating Activities	4	(325,936)	1,180,256
Cash Flow from Investing Activities:			
Purchase of Property, Plant and Equipment		-	-
Net Cash Used in Investing Activities		-	-
Net (Decrease)/Increase in Cash and Cash Equivalents Held		(325,936)	1,186,256
Cash and Cash Equivalents at Beginning of Year		1,643,477	432,221
Cash and Cash Equivalents at End of Financial Year	3	1,317,541	1,643,477

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