

CACEA 2021 Annual Report



Letter from the President

With great change comes great opportunity, and 2021 has been one of the most revolutionized and opportunity filled year that I have seen as an Energy Advisors (EA). Our industry, first emerging from COVID, encountered a construction boom unseen in years along with the transformation of the EnerGuide Rating system due to the surge in public demand.

The timing to have an established, connected and National body to represent our industry of EAs could not have been better. Our organizations position, led by the tireless efforts of our Executive Director Cindy have kept CACEA at forefront of these changes.

More than just a seat at the table, CACEA has quickly become recognized as a critical voice and partner during these challenging times. NRCan, Local and Federal Governments, as well as industry, turn to CACEA first for information, support and access the talents and experience of our member network across the country.

Now more than ever, Canada needs a professional, experienced and well-trained industry of EAs to support the decarbonization efforts amassing across Canada. We are front line in protecting families from energy poverty as energy costs changes; from health impacts of sub-standard housing; and from predatory actions of unscrupulous players in the construction and renovation industry. Our work is only beginning.

Thank you to our volunteers and board members who keep us moving.

Thank you, our tireless ED, Cindy Gareau for your passion and commitment.

Thank you for your support in what has been a tremendous year for CACEA.



Table of Contents

Executive Director Report.....	2
2021 Board of Directors.....	3
Financial Report	4
Committee & Working Group Activity.....	6
Membership Update.....	9
Stakeholder Engagement & Activity	10
Strategic Plan Summary 2021-2023.....	13
Focus for 2022.....	14

Executive Director Report

This was certainly a year to remember!

While the pandemic made it impossible for CACEA to hold in-person events and we had to rely virtual meetings and webinars, we were very successful in expanding our outreach and awareness of the Association. As a result, were increasingly sought out to participate in workshops, panels and presentations as well as one-on-one discussions to explore opportunities for collaboration, strategic discussions, projects, information sharing, and more.

As for most of you, a considerable amount of time last year was dedicated to the Canada Greener Homes Grant (CGHG) program. CACEA was engaged with notable discussions and advocacy efforts leading up and after to the launch of the program. I now meet, at a minimum, once a week with NRCan and the CGHG team to address the concerns and challenges facing the EA community and taking a leadership position to find equitable solutions for all. They are listening to us. However, we are not out of the woods and there are many issues that we have yet to address as a profession. Rest assured – the results of our ongoing outreach and engagement with the different governmental departments and agencies have demonstrated our influence and impact. We will continue to promote the interests of our members – not just as they relate to the CGHG but on a broader, more strategic level – at all levels of government. I will also continue to engage with stakeholders from across the country to create awareness of CACEA, be “at the table”, promote the profession and membership, and seek resources and opportunities for the Association and members.

Education and information sharing continues to be a priority. In 2021, we accomplished this by offering regular webinars, sharing relevant news articles and reports in our monthly e-News and Member HUB, as well as offering our annual Fall Heat Loss Heat Gain Calculation Certification for an EA audience through our partner the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI). In addition, through the generous support of BC Housing, BC Hydro and Fortis BC we created an Integrated Design Process Facilitation training pilot, in B.C., for CACEA members. The goal is to expand this offering in 2022. I am pleased to report that we also secured an NRCan contract, with additional support from BC Hydro, to develop a training program: *Retrofit Refresh for REAs*. This training will highlight best practices and nuances related to existing home audits and will be available in the Spring of 2022.

We continue to make updates to the website. Some of you may have noticed that we have a new logo and colour palette. I encourage CACEA members to reach out to me to get a copy of our logo to add to your websites and email signatures. We also added some new pages and sections to the website including a Supporter page that highlights many of the stakeholders with whom we have been engaging. In the Member HUB we have included a “Supplier” section where members can find useful links and information about the technologies available as well as a section for CGHG information and links. We also added a Trainee Discussion Board where those in the process of becoming EAs (our Trainee members) can share resources and support one another. There is certainly more that can be added and I welcome your suggestions and feedback.

I want to take this opportunity to thank CACEA’s board of directors for their support and confidence in making me your full-time executive director in July. I am proud to be a part of this dynamic and vital organization. We have accomplished a lot in a couple short years and while we are still growing, we are mighty! None of our accomplishments would have been possible without the incredible work of the board of directors as well as the army of volunteers and contributors who you will see highlighted in the Committee Reports. They are the heart and soul of this incredible Association. I also want to thank our Premier Annual Corporate Sponsor Owens Corning who has been a tremendous supporter of CACEA and a valuable resource for our members. Finally, I would be remiss if I didn’t thank the members for believing in the important work that we are doing on their behalf.

This is *YOUR* association. Take advantage of what we offer – whether it is attending a webinar (or listening to the recording), participating in a Council or Forum session, or posting a discussion/asking a question in the Member Forum. These things are here for you. If there is something that CACEA should be addressing and/or providing, please do not hesitate to reach out to me directly, or better still, join a committee and get involved.

I am looking forward to another exceptional year where we can continue to achieve great things together.



Cindy Gareau

2021 Board of Directors



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* *Founding Member*

Thank you to

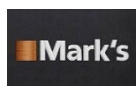


2020 - 2022 Premier Annual Corporate Sponsor
and CACEA French Website Sponsor

CACEA is grateful for the following suppliers for their support in 2021



Thank you to our Member Benefits Affinity Partners



[See all of our Supporters](#)

Financial Report

CACEA Statement of Financial Position

	<u>2021</u>	<u>2020</u>
ASSETS		
Cash	139,505	81,789
Accounts Receivable	19,601	31,410
Prepaid Expenses	374	2,001
	<u>159,480</u>	<u>115,200</u>
LIABILITIES		
Accounts Payable and Accrued Liabilities	52,063	61,405
HST Payable	1,981	1,133
Payroll Liabilities	2,121	0
Deferred Revenue	31,050	25,615
	<u>87,215</u>	<u>88,153</u>
NET ASSETS	<u>72,265</u>	<u>27,047</u>

CACEA Statement of Operations

	<u>2021</u>	<u>2020</u>
REVENUE		
Projects	94,824	66,410
Member Dues	47,901	19,270
Other	17,160	13,455
	<u>160,785</u>	<u>99,135</u>
EXPENSES		
Administration and Operations	69,371	36,524
Projects and Other	46,196	53,568
	<u>115,567</u>	<u>90,092</u>
EXCESS OF REVENUES OVER EXPENSES	<u>45,218</u>	<u>9,043</u>

CACEA had another strong year due to the combination of a growing membership, project participation and sponsorships. Expenses are higher than the previous year due to the board approving a full-time position for the executive director in July 2021. This enabled CACEA to expand its important advocacy role as well as the continued focus on delivering quality services for members.

The resulting increase in assets will contribute to CACEA's goal to ensure a fiscally sustainable association that can continue to support its mandate and Canadian energy advisors.

2021-2022 Annual Budget Highlights and Summary

CACEA 2021-2022 Annual Budget

REVENUE	
Member Dues	61,776
Training and Education	41,350
Projects	35,000
Sponsorship	20,000
Top 1% Recognition	29,500
	<hr/>
	187,626
	<hr/>
EXPENSES	
Training and Education	26,400
Projects	30,000
Top 1% Recognition	20,950
Administration and Operations	115,852
	<hr/>
	193,652
	<hr/>
EXCESS OF REVENUES OVER EXPENSES	-6,026

The board anticipates the 2021-2022 fiscal year will continue to be a challenge to predict how the year will play out for both CACEA and the EA community. The unpredictable trajectory of the pandemic that has had a notable ripple effect making it challenging to project revenues as it relates to training and education as well as membership engagement. That being said, there is also optimism that CACEA will continue to participate in projects and find opportunities that support our strategic goals and objectives and contribute to a positive bottom line.

With these factors in mind, the board approved a very conservative budget that projects a small deficit. This will enable CACEA to invest in our continued growth and position the Association to support members and be recognized and sought out as a valued partner and contributor.

CACEA Job & Projects Postings

CACEA members (free) & non-members (\$50+) can view and post job openings and project/collaboration opportunities. To post something, complete the Job and Project Opportunity online form where you can provide a job description and link to your posting.

[Job and Project Opportunity Form](#)

Committee & Working Group Activity

Education

Members: Terry Adamson, Fenestration Canada; Sanjeev Batta, Step 5 Solutions; Luke Dolan, Capital Home Energy; Meyland Gravel-Labelle, Buildingexpert Consulting-Services; Kirk Johnson, Eco-Efficiency Consulting; Gilles Lesage, Total Home Solutions; Kristi Owens, City Green; Toby Smith, Building Knowledge Canada

Mandate: Develop and promote educational programs, training and information exchange designed to meet CACEA member needs and expectations. The committee develops the educational calendar, identifies speakers, seeks educational partnerships and content, and ensures that CACEA provides valuable content.

- The education committee was busy this year, providing regular webinars. Titles included:
 - Water Management: The liquid risk (or opportunity) with new, high efficiency homes
 - Low-Rise Buildings as a Climate Solution
 - A New Slant on Roofs
 - Tips and Tricks Using SketchUp
 - Airtightness in Attached Homes: Why all our blower door tests are wrong, and why it matters!
 - GeomeTRICKY 101?
 - Radon: Why Should I Care?
 - CACEA Annual General Meeting, Keynote Speakers (Mollie Johnson, NRCan; Kevin Lee, CHBA) and Town Hall Discussion
 - The Recent HOT2000 Update: CACEA members weigh in
- Members can access to webinar recordings and other Resources in the [Member Hub](#).
- CACEA coordinated the annual, Fall EA-focused Heat Loss/Heat Gain Certificate program at the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) member rate.

Integrated Design Process (IDP) Facilitation Training

Members: Mark Bernhardt, Bernhardt Contracting; Emma Conway, E3 Eco Group; Luke Dolan, Capital Home Energy; Gilles Lesage, Total Home Solutions; Andy Oding, Building Knowledge Canada

Mandate: To develop and deliver a pilot IDP Facilitation training program for EAs in B.C.

- Develop and deliver “classroom” training; IDP expert and candidate shadow IDP sessions; and a resource handbook that includes checklists and templates.
- Contribute to promoting of the importance and benefits of IDP to the building community.
- The pilot will be completed in 2022.

This program was generously supported by BC Housing; BC Hydro; and Fortis BC.

Membership

Members: Tessa Hall, Equilibrium Energy Solutions; Lauren Lipka, CHBA-NB; Tyler Hermanson, 4 Elements; Barb Silverthorn, Capture Energy

Mandate: Establish and execute a strategy for membership recruitment and retention.

- Provide introductions to potential members and guidance in member services.

Mentoring Program

Members: Alison Conroy, Pelican Consulting; Lauren Lipka, CHBA-NB; Kristi Owens, City Green

Mandate: To oversee a mentoring program that facilitates professional development for CACEA members.

- Assisted with coordinating the first year’s Program that resulted in four pairings.

Nominating

Members: Luke Dolan, Capital Home Energy; Gio Robinson, prairieHOUSE Performance; Mark Rosen (chair), Building Energy Inc.

Mandate: To ensure a transparent nomination process for the board of directors.

- Reviewed materials and ensured a transparent and open nominating process.

Retrofit Refresh Training

Members: Luke Dolan, Capital Home Energy; Meyland Gravel-Labelle, Buildingexpert Consulting-Services; Kirk Johnson, Eco-Efficiency Consulting; Tyler Hermanson, 4 Elements Design; Gilles Lesage, Total Home Solutions; Lauren Lipka, CHBA-NB; Stephen Magneron, Homesol Building Solutions; Zenon Phillips, Homesol Building Solutions

Mandate: To develop and deliver retrofit refresh training for registered energy advisors.

- Develop and deliver eight hours of existing home audit “best practices” for NRCan registered EAs and a resource handbook that includes checklists and templates.
- This program will be delivered in 2022.

This program was generously supported by Natural Resources Canada and BC Hydro.

Technical

Members: Angela Bustamante (co-chair), Building Knowledge Canada; Terry Adamson, Fenestration Canada; Amelie Caron, Ecosynergy; Luis Carvalheiro, EnerQuality; Emma Conway (secretary), E3 Eco Group; Gord Cooke, Building Knowledge Canada; Stephen Downs (co-chair), Map Energy; Brendon Grey, Egnite Sustainability; John Harris, DSG Building Diagnostics; David Hope, Homesol Building Solutions; Sacha Klein, Sacha Klein Energy Service; Lauren Lipka, CHBA - NB; Mark Rosen, Building Energy Inc.; Gerry Sawkins, 3 West Building Energy Consultants; Tyler Simpson, Logix Brands; Ray Smith, Kootenay Energy Advisor; Chelsah Thomas, Sol Invictus Energy Services; Deva Veylan; CoEfficient Building Science; Abraham Wairisal, Ecofitt Corporation; Jack Zhou, A & J Energy Consultants

Mandate: Identify technical issues; seek clarity and possible solutions; engage with stakeholders on behalf of CACEA; contribute to producing reports, feedback/position requests, white papers, FAQs, etc., to support and assist CACEA members and stakeholders.

- Created working groups to address clarification on the following:
 - Walk out basements*
 - PV modelling*
 - Air Sourced Heat Pumps
- After coordinating a meeting with HRAI and TECA, successfully requested that NRCan provide a technical heat pump webinar for EAs and the larger industry.
- Provided NRCan with input for the Canada Greener Homes program and heat pumps.
- Held a Round Table discussion with the fenestration associations (Fenestration Association of British Columbia, Fenestration Manitoba, Fenestration Canada, Association de vitrerie et de fenestration du Québec, Fenestration and Glazing Industry Alliance; Sidings and Window Dealers Association of Canada); fenestration technical consultants; and representatives from the Canadian Home Builders Association and NRCan to begin discussions to seek ways to improve clarity, consistency, precision, accuracy and accountability of modelling the energy performance of windows that is balanced against the time and effort it takes to model and verify the performance in the field.
- Continue to monitor the Air Tightness issue at the Standing Committee on Energy Efficiency (SCEE) as it relates to the development of the 2020 NBC.
- Provide input on climate zone concerns to NRCan.
- Identify issues that need to be discussed with NRCan and shared with members.

Virtual Tools

Members: Ken Baigent Artic Energy Alliance; Angela Bustamante, Building Knowledge Canada; Amelie Caron, Ecosynergy; Emma Conway, E3 Eco Group; Gord Cooke, Building Knowledge Canada; Brent Crawford, Homesol Building Solutions; Luke Dolan, Capital Home Energy; Stephen Downs, Map Energy; Einar Halbig, E3 Eco Group; John Harris, DSG Building Diagnostics; Shawna Henderson, Blue House Energy; Mark Rosen, Building Energy Inc.

Mandate: Provide input and recommendations related to virtual tools on an ad hoc basis and when required.

- The group met twice to learn more about the work being done by Lightspark and Volta Research.

Other Member Engagement Initiatives

CACEA Trivia Night

- CACEA members came together in February for a night of trivia, networking and laughter. It was an opportunity to meet one another, test our general knowledge and have some fun.

EA Council

- CACEA held several EA Council meetings (only open to Full and Junior members) to facilitate networking and provide a place for EAs to discuss topics specific to them in a National Forum. In response to the Canada Greener Homes Grant, the Council met monthly from April to June to provide support and voice concerns,

Early Career Forum

- Members who recently became EAs, or were in the process of becoming a registered EA, meet three times in 2021 to build their network and discuss items of interest with those who are new to the profession.

Members' Forum

- CACEA members used this web-based forum – asking questions and seeking clarification and/or direction. The [Members' Forum](#) is only available to members through the Member HUB. Members can subscribe to existing “conversations” and/or start new posts.
- Members of the Technical Committee and Education Committee monitor the Forum to contribute to the discussions as required.

New Member Orientation

- The executive director hosted two sessions where new CACEA members came together to network, ask questions and learn more about how to take advantage of their CACEA membership.

Trainee Member Discussion Board

- A new discussion forum where those in the process of being an EA (Trainee members) can share resources, ask general questions and support each other. The [Trainee Discussion Board](#) is only available to members via the Member HUB. Members can review posts, subscribe to an existing conversation or start a new discussion.
- The discussion board is monitored so that experienced EAs can share suggestions and expertise.

Women's Forum

- As part of CACEA's commitment to support diversity equity and inclusion, CACEA hosted two informal “get togethers” for members who identified as female, two spirited persons and non-binary persons. It was a great opportunity to meet one another in a relax setting –supporting one another and sharing a laugh or two.

Thanks to our incredible volunteers!

Have you considered joining a committee?

- ✓ Have an IMPACT!
- ✓ Expand your NETWORK!
- ✓ MAXIMIZE your membership!

Here's what some of our volunteers had to say about their experience:



I benefit “by engaging with other professional in my field... It gives me a glimpse of the current national state of our profession.”

Meyland Gravel-Labelle
EXPERTBÂTIMENT, QU

“I volunteer “to help industry move forward while maintaining consistency within the field of energy.”



Angela Bustamante
Building Knowledge Canada. ON



“I have learned from my peers, gained leadership experience and built a network across Canada, while giving back to my community.”

Emma Conway
E3 Eco Group, BC

“I volunteer to have a greater voice”... for... “the Prairies and the challenges we have for EA certification.”



Amelie Caron
Ecosynergy, AB



“As a volunteer... I have benefited from making new connections that share the same passion as me!”

Jack Zhou
A & J Energy Consultants, ON

Membership Update



Membership continued to grow in 2021 with a 26% increase in EA membership. We also experienced a notable growth in the number of Trainee members – likely due to our partnership with the Prince’s Trust Canada’s Veteran Energy Advisor Program and the Canada Greener Homes Grant (CGHG) program which promoted EAs as a career. Trainee members were able to take advantage of building their network; participating in CACEA member benefits such as the monthly webinar and discounts on training and blower door equipment; and accessing the Member HUB resources, Member Forum, Early Career Forums and the new Trainee Discussion Board.

In 2021, we added a Supplier section of the website to allow members to connect with our supplier members and access useful information specific to their areas of expertise, products and services. These supporters are an incredible resource for CACEA members to learn more about current and upcoming technologies so they can help builders and homeowners make good and informed decisions.

While CACEA currently provides services in English, the association also has a [French website](#). This was made possible through a partial grant from Heritage Canada and the additional sponsorship from Owens Corning Canada.

To demonstrate the diversity of our EAs, CACEA encourages members to list the languages they can provide services in as part of the online public facing profile.

IMPORTANT CHANGE TO CACEA’S ONLINE DIRECTORY

To reduce the incidence of members receiving unwanted emails, CACEA has removed the email addresses from the public facing [directory](#). The public will only see the telephone number and website address of members who have provided that information.

Members can update the information on their profile, or access their digital member card, at any time by logging into the Member HUB and going to their [CACEA Member Profile](#).

Stakeholder Engagement & Activity

The importance, value and impact of CACEA was certainly felt in 2021! Expanding awareness of the association and strengthening relationships with key stakeholders and sector organizations continued to be a focus for 2021. As a result, CACEA was recognized and sought out as a valued resource and contributor. Below are some examples of CACEA's stakeholder engagement in 2021:

Nationally

- NRCan Greener Homes
 - Emceed with Prime Minister Justin Trudeau and Ministers O'Regan and Qualtrough, the government's announcement of their \$10M investment increase EA capacity. [VIEW the announcement](#). [READ the announcement](#)
 - Regular, ongoing discussions with the Greener Homes program team and leadership.
 - OUR IMPACT: Removed "free" from the EA rebate; initiated the FAQ process; requested the ASHP webinar; coordinated and gave feedback on communications, program details and areas of improvement. This is an ongoing activity.
- Standing Committee on Energy Efficiency (SCEE) for the National Building Code 2020
- NRCan – ENERGY STAR
 - Meet with NRCan to highlight concerns about the program, highlighting the importance of consulting with industry before launching program changes,
 - Technical Advisory Committee (TAC) member.
- NRCan CamnetLEEP
 - Discussions about the LEEP Costing tools for existing homes, Guides and other initiatives.
- Canadian Mortgage and Housing Corporation (CMHC)
 - Discussed the pending loan program and engagement with CACEA.
- Canada Green Building Council (CaGBC)
 - Explored areas of potential collaboration, opportunities to share information and advocacy as well as potential projects and training initiatives through their Workforce 2030 initiative.
- Canadian Home Builders Association (CHBA)
 - Explore opportunities to collaborate, and support respective initiatives and projects.
- Panelist: *Optimizing Energy Performance: An Interactive Roundtable for Builders Looking to Take the First Steps to Building Better Homes.*
- Canadian Renewable Energy Association (CanREA)
- Efficiency Canada
 - Participated in webinars.
 - Developed the content about a career as an EA for the newly formed Discover-EE Career Hub.
 - Commitment to collaborate on issues, share information, and advocacy efforts.
- Canadian Colleges for Resilient Recovery (C2R2)
- FGIA, FENBC, AVFQ and Fenestration Canada Working Group
 - Collaboration on fact sheets for builders, energy advisors and homeowners. Project to be completed.
- Community Energy Association (CEA)
 - With assistance from CACEA's Mark Bernhardt, developed a co-branded [Simple Guide for Working with an Energy Advisor](#) that EAs can share with their clients to help ensure a smoother process
- Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI)
 - Explore how to support one another including offering the annual fall Heat Loss / Heat Gain Calculation certification training targeted to EAs at preferred rates and/or sector focused content.
- North American Insulation Manufacturers Association (NAIMA)
- Virtual /Remote Technology Providers
 - Understand the technology and goals and how it fits with the work of EAs.

Regionally

- BC Housing/BC Hydro/Fortis BC
 - Contributed to IDP facilitation pilots.
 - Participated in the BC Hydro Ideation Workshop.
 - BC Real Estate Association
 - City of Vancouver
 - City of Westminster
 - Keynote presenter for the New Westminster Builder & Designer Breakfast Series: *CACEA, EAs & IDPs: A way to move industry forward.*
 - CRD's Advisory Group on the Residential Energy Retrofit Program
 - High Performance Stakeholder Council (HPSC)
 - Presentation to the Council on CACEA strategic initiatives.
 - Council member.
 - Planners Association of BC
 - Thermal Environmental Comfort Association (TECA)
-
- Alberta Urban Municipalities Association
 - CACEA was asked to provide input in ECMS being considered for an Alberta Retrofit program.
-
- Manitoba Energy
 - Manitoba Sustainable Energy Association (ManSEA)
-
- BetterHomes TO
 - Included in a consultation for Toronto's Home Energy Loan Program (HELP) initiative.
-
- City of Kingston
 - City of Ottawa
 - Clean Air Partnership (CAP), Energy Retrofit Training Network
 - Share retrofit training initiatives, gaps and where CACEA can leverage existing programs, support stakeholder work and/or take a leadership role.
 - Provide input on the role and expertise of EAs for municipalities and other stakeholders.
 - Participant in information webinar on NRCan's costing tools with municipalities.
 - Ontario Sustainable Energy Association
 - Presenter for the: *OSEA Canada Greener Homes Grant Program: A massive sustainable energy opportunity* with industry leaders
 - Volta Research
-
- Blue House Energy
 - Participated in a [podcast](#) about CACEA and its management.
 - Nova Scotia Energy
 - Efficiency One Nova Scotia
 - Facilitated two sessions: *Service Organization & Energy Advisor Information Session* for Nova Scotia, New Brunswick & Prince Edward Island and Newfoundland.
-

Additional Projects & Partnerships



NRCan Retrofit Cost Data Collection Project

CACEA was engaged to collect relevant costing data related to renovations and retrofit activities for energy-efficient Part-9 residential buildings. Using specifications for energy-efficiency measures and NRCan's collection templates, members collected and disaggregated regionally-representative construction cost data associated with applying energy-efficiency measures to existing homes either directly with renovators/contractors or referencing relevant invoice data.

CACEA 2021 Annual Report



Prince's Trust Canada Veterans Energy Advisor Program (VEAP)

CACEA worked closely with the VEAP team to develop and execute their program. The VEAP provided retired members of the Canadian Armed Forces (e.g., veterans) with comprehensive training and mentorship support to successfully write the NRCAN exams and become a registered EA. Candidates received theoretical and practical knowledge using Blue House Energy's online Foundation and EA (House) Exam training material along with access to experienced CACEA members who shared best practice expertise and knowledge – aimed to prepare candidates for the exams as well as for a successful career in the energy sector. The pilot is in its final stages and the goal is to expand the program across Canada. Participants also joined CACEA as a Trainee member to provide additional support as part of their EA journey.



Owens Corning Canada – CACEA Joint Integrated Design Builder Projects and Case Studies

This multi-year project, showcases the Integrated Design Process (IDP) and is designed to help builders develop a blueprint towards net zero ready performance by 2030. Each project includes a detailed discovery meeting (identify current practices, set objectives and desired levels of performance); benchmarking and optimisation options, and design charrettes (education and finalize designs) to explore **innovative***, cost-effective technologies, systems and holistic enclosure solutions; construction support; and sales and marketing support (builder differentiation and incremental sales). Each project will engage CACEA members and other strategic partners, Individual projects will be monitored from start to finish, resulting in informative case studies that can be shared throughout the building community. The overall initiative will include two projects in the West, one in Ontario and one in Quebec. Below is an example of one of the ongoing projects. CACEA will hold a webinar in 2022 featuring this Quebec project.

CASE STUDY #1:

Habitations Goyette (builder)

500 Net Zero Ready Homes planned in Terrebonne, Quebec Q3, 2022

Project Partners:

- Building Knowledge Canada (Consultant)
- Batiments Expert (local EA)
- JELD-WED of Canada
- Ecosolaris
- Dettson
- Provincial Home Builders Assn (APCHQ)



**Radon abatement system*



**Next Gen Fiberglass insulation made with 100% renewable wind energy*



**Exterior basement insulation and drainage system*

Builder Option Packages: Path Towards Net Zero Ready



OWENS CORNING INTEGRATIVE DESIGN PROCESS FOR REJEAN GOYETTE

PROJET COTE TERREBONNE (2021)

LOCATION:	PERFORMANCE TIER #	ENVIRONMENTAL QUALITY			
		Current Quebec Building Code	Current Builder Package (Novoclima) with 16" O.C. Walls	Novo optimal proposition	NetZero Ready Opt.
Energy Performance	% Better than Current Quebec Code	0.0%	36.5%	38.7%	51.8%
	GJ	102	65	63	49
Solar System Needed for NZ	kW	24	15	15	11
	# of Panels	70	44	43	34
Ceiling With Attic Space	Min. R-value	R41 nominal	R51.5adj (2x4 Truss, 18" Brown Cellulose)	R51.5adj (2x4 Truss, 18" Brown Cellulose)	R70
Ceiling Without Attic Space	Min. R-value	R41 nominal	R41.0 adj	R41.0 adj	R40
Exposed Floor	Min. R-value	R25 adj (R25 nom. with 87.5cc)	1 joint @ 16" oc, R28 Batt	1 joint @ 16" oc, R28 Batt	R31+R10ci ⁽¹⁾
Walls Above Grade	Min. R-value	R22 adj (R24.5 nom. with 87.5cc)	2-6@16" oc, R19 Batt + 87.5cc	2-6@16" oc, R19 Batt + 87.5cc	R24+R10ci ⁽¹⁾
Basement Walls	Min. R-value	R15 adj (R17 nom. with 87.5cc)	3-3 @ 24" oc, 3.75pp spray foam	2x4 @ 24" oc, R14 Batt + R15 aenocor	R24+R10ci ⁽¹⁾
Below Grade Slab (Below frost line)	Min. R-value	R-5	1" XPS Full Coverage (R6.2adj)	1" XPS Full Coverage (R6.2adj)	R10ci with Thermal break
Windows and Sliding Glass Doors	Max. U-Factor	0.32 (1.0U) / 0.28	Alu E+ 1-3-1-5 Uci, SHGC=0.5 avg.	LufLamme Eco/Novo U1.00-3.0	LufLamme Eco/Novo U1.00-3.0
Space Heating Equipment	Min. Efficiency	Electric Resistance Heating	-Electric Furnace -Air-Source Heat Pump (HSFP 9)	-Electric Furnace -Air-Source Heat Pump (HSFP 9)	-Electric Furnace -Air-Source Heat Pump (HSFP V 6.6)
Space Cooling Equipment	Min. Efficiency	SEER 14.5	Central Heat Pump SEER 16	Central Heat Pump SEER 16	SEER 15
HRV	Min. % SRE @9°C	54% @ -25°C	VanE Novo+100H HRV 67% & Kitchen Range Exhaust	VanE Novo+100H HRV 67% & Kitchen Range Exhaust	75% ECM
Domestic Water Heater	Min. Efficiency	Electric Tank: SL 5.40 + 0.20V	Giant Electric Tank (1725TP9) 279L, 75W Standby Loss	Giant Electric Tank (1725TP9) 279L, 75W Standby Loss	Heat Pump Water Heater 3.0 COP
Drain Water Heat Recovery	Min. % Efficiency (per CSA B55.3)	none	-	-	42% (equal flow)
Airtightness	Max. Air Changes (ACH @ 50 Pa)	+/- 3.5	1.0	1.0	1.0
Lighting			80% CFL/LED lighting	80% CFL/LED lighting	75% CFL/LED lighting
Appliances			-	-	ENERGY STAR clothes washer, refrigerator, dishwasher
Bathroom Faucets			-	-	Low-Flow (<= 7.6 L/min)
Shower Heads			-	-	Low-Flow (<= 7.6 L/min)
Other			IAQ, Materials & Energy Req's	IAQ, Materials & Energy Req's	Energy Monitor & Solar Ready

CASE STUDY #2:

Cedarglen Homes (builder)

Net Zero Home Package Upgrade for New Homes, Calgary, AB



Net Zero Home Jan 2022

Project Partners:

- 4 Elements Design (local EA)
- Mitsubishi
- Southern Alberta Institute of Technology (SAIT)



** Thermafiber Rainbarrier HC ci mineral fiber insulation and strapping below vinyl cladding*






** Below grade to exterior insulation transition using Foamular C200 and Rainbarrier HC ci*

Assembly Comparison: Benchmark Home & NZ Home

ASSEMBLY	BENCHMARK HOME	NET-ZERO HOME
Roof Assembly	Asphalt shingles, OSB, insulation (type not specified), polyethylene vapour barrier, interior insulation Nominal R-value: R-42.74	Asphalt shingles, OSB, insulation (type not specified), polyethylene vapour barrier, interior gypsum Effective R-value: R-58.43
Exterior Wall Assembly	Vinyl cladding, OSB or exterior gypsum, batt. Insulation, polyethylene vapour barrier, interior gypsum Nominal R-value: R-22.97	Vinyl cladding, strapping, exterior mineral fiber, OSB or exterior gypsum, batt insulation, polyethylene vapour barrier, interior gypsum Effective R-value: R-30.31
Below Grade Foundation Assembly	Concrete, batt insulation, polyethylene vapour barrier Nominal R-value: R-13.4	Dimple membrane, XPS rigid insulation, concrete, batt insulation, polyethylene vapour barrier Effective R-value: R-27.16
Basement Slab Assembly	Polyethylene vapour barrier, concrete Nominal R-value: R-2	Spray foam insulation, concrete Effective R-value: R-13.17

Strategic Plan Summary 2021-2023

 <p>A TRUSTED, CRITICAL PARTNER</p>	 <p>RENOWNED FOR HIGHER, SPECIALIZED KNOWLEDGE AND EXPERTISE</p>	 <p>STRONG AND SUSTAINABLE</p>
<p>THE go-to resource for stakeholders— at the table for key discussions and decisions.</p>	<p>CACEA members get more work.</p>	<p>Strong governance, operations and stability.</p>
<ul style="list-style-type: none">• Action plan to strengthen stakeholder relation and engagements• Action plan for enhanced regional support and services• Seek ways to assist stakeholders	<ul style="list-style-type: none">• A continuing education system.• Action plan to roll out training aligned with NRCan initiatives and competencies• Action plan addressing relevant topics supporting a modernized EA pathway• Launch a Mentoring Program	<ul style="list-style-type: none">• Action plan to increase national membership and sector representation.• Action plan to deliver non-dues revenue streams.• Ensure strong governance and operational practices.

OUR MISSION

To support a sustainable profession of successful and credible Canadian Energy Advisors.

OUR VALUES

Competence > Forward Thinking > Integrity > Professionalism > Respect

OUR CORE PURPOSE

Promote the interest of the Canadian EAs for the betterment of our members where they are seen as best in class and support Canadian energy efficiency initiatives to better serve homeowners and stakeholders.

Focus for 2022

- Monitor issues and speak to issues that impact the EA profession at all levels of government and other authorities that have jurisdiction (AHJs).
- Increase awareness and strengthen relations with stakeholders regarding the value and importance of EAs and CACEA through articles, outreach, committee participation, letters of response and conversations.
- Continue to focus on delivering education and information to members through regular webinars, resources in the Member HUB, training initiatives such as the Integrated Design Process Facilitation program and the Retrofit Refresh Training for REAs, collaboration with industry stakeholders for content such as the annual Fall HRAI Heat Loss Heat Gain Certification training.
- Seek ways to support consistent practices by the EA profession through upskilling opportunities and consistent training practices.
- Explore opportunities to demonstrate the expertise and quality of CACEA members through programs such as a continuing education credit program.
- Facilitate networking and information sharing opportunities for members
- Continue to grow the association for increased representation and support for the profession.
- And more...

Visit the website and read the CACEA e-News for Association and industry information.

[CACEA Online](#)

Members of CACEA have exclusive access to:



KNOWLEDGE

Information, resources, and professional development supporting competitiveness and professionalism.



NETWORK

Strong and supportive industry leaders and peers. Valued connections enhancing business.



INFLUENCE

Key industry and regulatory stakeholders – promoting the importance of the profession.