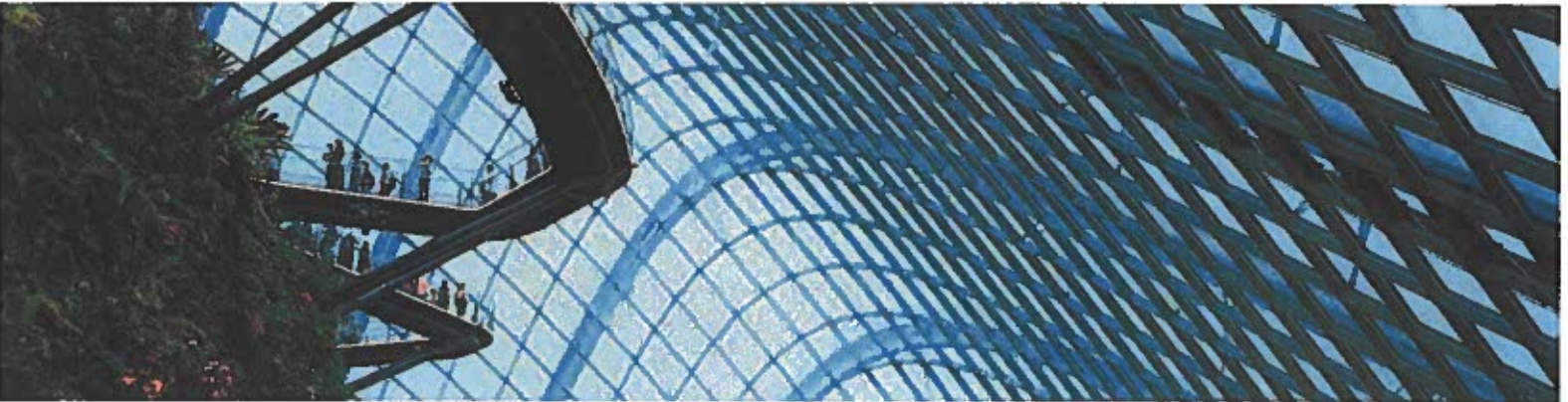


FUTURE OUTLOOK



This section provides additional insights from Cristian Hurtado and Peter Love on Energy and Job Creation; and Paul Dowsett on Cutting Carbon out of Construction.

JOBS, JOBS, JOBS: The human side of energy efficiency

Special economic preview by Cristian Hurtado and Peter Love

While climate change threatens the entire globe, it also presents an opportunity to change for the better. At the same time, as we upgrade our processes and clean up our environment, these activities will also create thousands of new and highly skilled jobs.

According to Clean Energy Canada, Canada's clean-energy sector grew 33% more than the broader national economy during the seven years prior to 2017. A new study from the Environmental Careers Organization of Canada, which defined the energy efficiency industry more broadly by including the construction, manufacturing, wholesale trade, professional and business services, utilities, and other services industries found the energy efficiency industry employed 436,000 people across Canada in 2018. Today, 1 in 50 Canadians are working in the energy-efficiency industry.

And we're just getting started. A 2018 study from Dunskey Energy Consulting, commissioned by Efficiency Canada, concluded that the 2016-2030

period would see average annual job creation of 118,000 in Canada's energy-efficiency industry alone. (Note that these figures represent net jobs, taking into account job losses in other industries.)

The Pan-Canadian Framework on Clean Growth and Climate Change (PCF) encourages creating jobs in sustainable industries, such as energy efficiency. In fact, the Environmental Commissioner of Ontario estimates that the PCF's energy-efficiency recommendations will yield net growth of about



53,000 jobs by 2030 in Ontario alone. Ontario currently ranks behind Alberta based on the number of people employed in the energy sector, but that may be shifting. There are already more people employed in direct clean energy than in the oil sands, according to the Ontario Ministry of Economic Development, Job Creation and Trade, and employment across the full cleantech sector continues to climb.

However, this article is about more than just Ontario. Energy efficiency's positive impact on the job market is being felt Canada-wide. Energy Efficiency Alberta reports that in 2017, Alberta saw over 2,300 jobs created through investments in energy efficiency. On the east coast, more than 1,400 people were working on Efficiency Nova Scotia projects in the same year, with more than 200 local businesses receiving training and support for their employees.

As Canadians seize more opportunities in energy efficiency, the momentum must be maintained. If a transition to a more financially resilient, environmentally friendly, and socially equitable Canadian economy is to happen in time to mitigate the effects of climate change and social injustice, sustained action is needed on the efficiency front. We call on you, the reader, to join Efficiency Canada by signing up for its energy-efficiency initiative, Our Human Energy (<https://ohe.efficiencycanada.org/join/>). You'll become part of an engaged efficiency community, and you'll be reminding policymakers that energy efficiency needs to become a political priority.

Figure ES-1. Total annual net employment in Canada by industry segment (2017-2030) – PCF Scenario

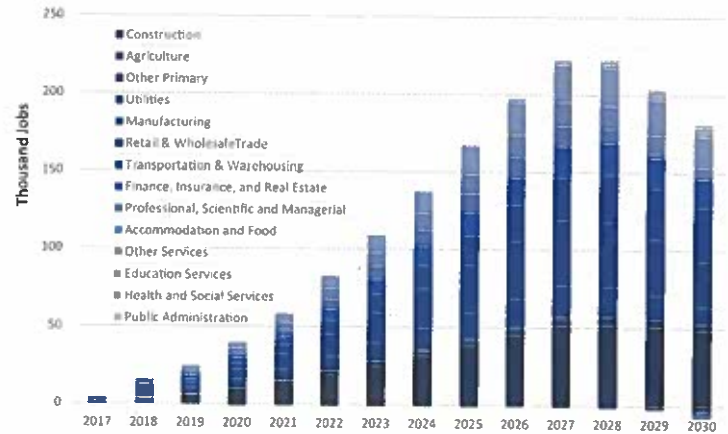


Figure 1: Total annual net employment in Canada by industry segment based on the Pan-Canadian Framework requirements (2017-2027) (Dunsky Energy Consulting, 2018)

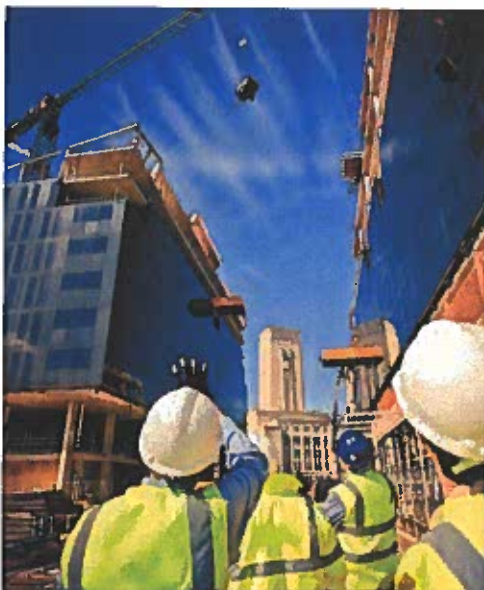
Cristian Hurtado is a recent graduate of York University's Master of Environmental Studies program with a Business & Environment specialization from the Schulich School of Business. He is a volunteer researcher for RSI. Peter Love is an adjunct professor at York University where he has designed and taught a course on energy efficiency policies and programs. He is active on a number of boards, and is a founding director of RSI.



WE MUST CUT CARBON OUT OF CONSTRUCTION – NOW!

By Paul Dowsett, OAA, FRAIC, LEED AP

Principal Architect, Sustainable Architecture for a Healthy Planet.



Five months. That's all we have to transform as an industry. Seventeen months if we're being generous.

And transform we must! There is no Option (or Planet) B.

Being an architect, I look at my own industry, to determine the state we're in and, more importantly, to propose how we can and must change.

The act of city-building would not be possible without the entire construction industry: building owners and managers, architects and engineers, general contractors and tradespeople, and material manufacturers and suppliers. And when it comes to the climate crisis, all of us as "city builders" have an important role to play.

But that role has to change. We must cut carbon out of construction – now!