



# Tim Weis

Ph.D., M.Sc., B.A.Sc., P.Eng.

## Biography

Dr. Tim Weis is a professional engineer and the Alberta Regional Director at the Canadian Wind Energy Association (CanWEA) where he works on public policy, research and advocacy activities for Alberta's wind energy industry.

Tim has worked for over a decade in renewable energy technical research and policy design. He has written numerous publications on technical and policy issues facing renewable energy development in Canada at national, provincial and municipal levels. He has assisted more than 20 communities at various stages of development of renewable energy projects and has also worked as a renewable energy consultant examining wind energy challenges in northern communities.

## EDUCATION

Doctor of Philosophy  
Sciences de l'environnement  
Université du Québec à  
Rimouski (2011)

Master of Science  
Mechanical Engineering  
University of Alberta (2003)

Bachelor of Applied Science  
Mechanical Engineering,  
with Environmental  
Engineering Option  
University of Waterloo  
(1999)

## Selected Project Experience

- Sustainable energy policy research and advocacy
- Community energy planning
- Policy design and advocacy
- Community energy demand assessments
- Wind energy, biomass, solar and mini-hydro pre-feasibility studies
- Wind power development in northern communities
- Peer reviewer, Journal of Energy Policy

## Professional Experience

### **2014 – Present: Alberta Regional Director, Canadian Wind Energy Association**

- Industry market research and policy development
- Government Relations

### **2008 – 2014: Director, Renewable Energy and Efficiency, The Pembina Institute**

- Sustainable Energy Policy Research
- Policy Design and Advocacy
- Communications and Public Outreach

### **2003 – 2008: Senior Technical and Policy Advisor, The Pembina Institute**

- Community Energy Planning
- Renewable Energy Resource Assessments and Pre-Feasibility Studies

### **2003 – 2005: Renewable Energy Consulting**

- Yukon Energy Corporation – Wind power production under icing conditions
- Aurora Research Institute – Pre-feasibility study for wind energy in

Inuvialuit

### **1995, 97 & 98: Undergraduate Co-op**

- MTD Products Ltd – Snow-Thrower Design Technician. Design and fatigue testing for new transmission components
- Timberjack Inc. – Research and Development Engineering, Operator Noise Reduction experiment design and testing & Visibility ISO 9000 compliance

## PROFESSIONAL AFFILIATIONS

Association of Professional  
Engineers and  
Geophysicists of Alberta

## Boards and Committees

- 2013-14: Co-chair, Electricity Project Team, Clean Air Strategic Alliance
- 2012-14: Ontario Ministry of Energy, Clean Energy Task Force
- 2011-14: Co-chair, Alliance for Renewable Energy
- 2009-11: Board, Canadian Renewable Energy Alliance
- 2010-11: City of Edmonton, Renewable Energy Task Force
- 2005-10: Canadian Wind Energy Association, Northern Caucus

## Education

### UNIVERSITÉ DU QUÉBEC À RIMOUSKI

- Doctorate of Philosophy joint program with L'Institut des sciences de l'environnement (ISE), Université du Québec à Montréal
- 2002 National Science and Engineering Research Council (NSERC) Industrial Graduate Scholarship
- Thesis Title: Renewable North: Policy Considerations for Wind-Diesel Systems in Remote Canada

### UNIVERSITY OF ALBERTA

- Master of Science, Mechanical Engineering
- 1999 National Science and Engineering Research Council (NSERC) Graduate Scholarship
- Geon Graduate Scholarship Air Pollution Reduction Research
- 2000, 2001 Teacher Assistant Awards
- Thesis Title: Rime Ice Adhesion to Heated Surfaces

### UNIVERSITY OF WATERLOO

- Bachelor of Applied Science in Mechanical Engineering with Environmental Engineering Option
- 1998 SAE Supermileage Engine Design, Manufacture and Testing
- 1997-1998 Exchange to University of Leeds, England

## Selected Publications

- Weis, T., Stensil, S.-P. and Harti, J. (2013) *Renewable is Doable: Affordable and flexible options for Ontario's long-term energy plan*, [www.pembina.org/pub/2479](http://www.pembina.org/pub/2479)
- Thibault, B. and Weis, T. (2013) *Clean Electricity in Alberta: A Made-in-Alberta Proposal to Green the Grid*, [www.pembina.org/pub/2464](http://www.pembina.org/pub/2464)
- Anderson, K., Weis, T. and Thibault, B. (2013) *A Costly Diagnosis: Subsidizing coal power with Albertans' health*, [www.pembina.org/pub/2424](http://www.pembina.org/pub/2424)
- Weis, T., et al, (2012) *The High Costs of Cheap Power: Pollution from coal-fired electricity in Canada*, [www.pembina.org/pub/2349](http://www.pembina.org/pub/2349)
- Thibault, B. and Weis, T. (2012) *CLEAN Cities: A municipal financing option for supporting local renewable energy*, [www.pembina.org/pub/2306](http://www.pembina.org/pub/2306)
- Partington, PJ, Weis, T. and Horne, H. (2012) *Weakening regulations could reduce their effectiveness by more than half*, <http://www.pembina.org/mediarelease/2372>
- Weis, T., Partington, PJ. (2011) *Behind the Switch: Pricing Ontario Electricity Options*, [www.pembina.org/pub/2238](http://www.pembina.org/pub/2238)
- Anderson, K., Jungjohann, A., and Weis, T. (2011) *Harvesting clean energy on Ontario*

- farms, *A transatlantic comparison*, [www.pembina.org/pub/2230](http://www.pembina.org/pub/2230)
- Weis, T. and Anderson, K. (2010) *Renewable Energy: FIT for Cities*, [www.pembina.org/pub/2133](http://www.pembina.org/pub/2133)
- Weis, T., Doukas, A. and Anderson, K. (2010) *Landowners' Guide to Wind Energy Development in Alberta*, [www.pembina.org/re/wind-guide-alberta](http://www.pembina.org/re/wind-guide-alberta)
- Weis, T., Stencil, S-P and Stewart, K. (2010) *Ontario's Green Energy Plan 2.0; Choosing 21st Century Energy Options*, <http://www.pembina.org/pub/2059>
- Weis, T.M. and Ilinca, A. (2009) *Assessing the Potential for a Wind Power Incentive for Remote Villages in Canada*, Energy Policy, JEPO-D-09-01171
- Bailie, A., Doukas, A. and Weis, T. (2009) *Renewable Energy Policies for Remote and Rural Communities*, prepared for Agriculture and Agri-Food Canada
- Bell, J. and Weis, T. (2009) *Greening the Grid; Powering Alberta's Future with Renewable Energy*, [www.pembina.org/pub/1763](http://www.pembina.org/pub/1763)
- Peters, R. and Weis, T. (2008) *Feeding the Grid Renewably; How Feed-in Tariffs Maximize the Benefits of Renewable Energy*, [www.pembina.org/pub/1599](http://www.pembina.org/pub/1599)
- Weis, T.M., Ilinca, A. and Pinard, JP, (2008) *Stakeholders' Perspectives on Barriers to Remote Wind-Diesel Power Plants in Canada*, Energy Policy 36 (5), pp. 1611–1621
- Weis, T.M. and Ilinca, A. (2008) *The Utility of Energy Storage to Improve the Economics of Wind-Diesel Power Plants in Canada*, Renewable Energy, 33 (7), p.1544-1557, Jul 2008
- Weis, T. et al, (2007) *Making the Case for Small Wind and Federal Small Wind Incentives in Canada*, report submitted to Canadian Wind Energy Association
- Bailie, A, et al. (2007) *Economic Instruments for On-site Renewable Energy Applications in the Residential/Farm Sector*, report submitted to Environment Canada, available for download at: [http://pubs.pembina.org/reports/Econ\\_Instru\\_Res\\_RE\\_03-07.pdf](http://pubs.pembina.org/reports/Econ_Instru_Res_RE_03-07.pdf)
- Weis, T. and Lepatski, C. (2006) *Introduction to Wind Energy: Technical Course for Saskatchewan First Nations*, 2-day course given at Cowessess First Nation, Saskatchewan
- Graham, S., Weis, T. and Coleman, G. (2005) *The Ontario First Nation Guide to Wind Power Development* by SGA Energy and Associates, submitted to Indian and Northern Affairs Canada, available for download at: [www.inac.gc.ca/clc/tp/ofn/index\\_e.html](http://www.inac.gc.ca/clc/tp/ofn/index_e.html)
- Weis, T. and Lambert, T. (2004) *Electricity Supply Optimization in Yukon; Wind, Hydro and Grid Options* report submitted to Indian and Northern Affairs Canada, Aboriginal and Northern Climate Change Program, BC Region, Vancouver, BC
- Weis, T. (2004) *Driftpile First Nation Community Energy Planning: Wind Energy, Biomass Cogeneration and Energy Efficiency Options*, report submitted to Indian and Northern Affairs Canada, Aboriginal and Northern Climate Change Program, Alberta Region, Edmonton, AB
- Weis, T. and Carlos, C. (2004) *Yukon Community Energy Planning: Long-Term Electrical Supply Options* submitted to Western Economic Diversification under Community Alternative Energy Development Initiative, Victoria, BC
- Weis, T. (2003) *The Effects of Black Blades on Surface Temperatures for Wind Turbines*, proceedings of Yukon International Wind Energy Conference, Whitehorse, YK
- Weis, T. and Pape-Salmon, A. (2003) *Gitga'at First Nation Community Energy Plan*, submitted to Ministry of Community Development, Cooperatives and Volunteers, Victoria, BC
- Pinard, JP and Weis, T. (2003) *Pre-Feasibility Analysis of Wind Energy for Inuvialuit Region in the Northwest Territories*, submitted to Energy Secretariat GNWT and Northwest Territories Power Corp., Yellowknife, NT

## Selected Popular Writing Examples

Toronto Star Sponsored Feature, June 2013. *Renewing the North*, available online at: [http://doc.mediaplanet.com/all\\_projects/12731.pdf](http://doc.mediaplanet.com/all_projects/12731.pdf) (page 5)

Toronto Star, May 5, 2012, *Rising electricity prices have little to do with renewable energy*, available online at: [www.thestar.com/opinion/editorialopinion/2012/05/05/rising\\_electricity\\_prices\\_have\\_little\\_to\\_do\\_with\\_renewable\\_energy.html](http://www.thestar.com/opinion/editorialopinion/2012/05/05/rising_electricity_prices_have_little_to_do_with_renewable_energy.html)

Financial Post, February 10, 2012. *Clean energy also needs political focus*, available online at: [http://business.financialpost.com/2012/02/10/clean-energyalso-needs-political-focus/?\\_\\_lsa=de80-ae99](http://business.financialpost.com/2012/02/10/clean-energyalso-needs-political-focus/?__lsa=de80-ae99)

The Globe and Mail, September 16, 2011. *Alberta must kick its coal habit*, available online at: [www.theglobeandmail.com/news/opinions/opinion/alberta-must-kickits-coal-habit/article2167798/](http://www.theglobeandmail.com/news/opinions/opinion/alberta-must-kickits-coal-habit/article2167798/)

Toronto Star, September 16, 2011. *Did Ontarians Get a Good Deal With the Green Energy Act?*, available online at: <http://speakyourmind.thestar.com/experts/gettalking/environment/channel-environment-sub-topic-green-subsidiesfit-program/>

Toronto Star, August 20, 2011. *High Cost of Cancelling the Green Energy Act*, coauthored with Tim Wohlgemut, ClearSky Advisors, available online at: [www.thestar.com/opinion/editorialopinion/article/1042412--high-cost-of-cancelling-the-green-energy-act](http://www.thestar.com/opinion/editorialopinion/article/1042412--high-cost-of-cancelling-the-green-energy-act)

Edmonton Journal, July 9, 2011. *Federal coal regulations risk being tarnished*, available at: [www.edmontonjournal.com/technology/Federal+coal+regulations+risk+being+tarnished/5077038/story.html](http://www.edmontonjournal.com/technology/Federal+coal+regulations+risk+being+tarnished/5077038/story.html)

Hamilton Spectator, January 31, 2011. *Don't blame the "Green"*, available online at: [www.thespec.com/opinion-story/2110463-don-t-blame-the-green/](http://www.thespec.com/opinion-story/2110463-don-t-blame-the-green/)

## Selected Public Speaking Engagements

CBC, The National, *Going Green, Making Green* – Feb 15, 2013, [www.cbc.ca/player/News/TV%20Shows/The%20National/ID/2335849444/](http://www.cbc.ca/player/News/TV%20Shows/The%20National/ID/2335849444/) (5:31)

CTV, Alberta Primetime, *Turbine Tension* - Oct. 10, 2012, [www.albertaprimetime.com/Stories.aspx?pd=4328](http://www.albertaprimetime.com/Stories.aspx?pd=4328)

CTV, Alberta Primetime, *Investing in Solar* – May 24, 2012, [www.albertaprimetime.com/Stories.aspx?pd=3764](http://www.albertaprimetime.com/Stories.aspx?pd=3764)

CBC Television, Lang and O'Leary Exchange, August 19, 2011, *Federal Coal Regulations*, [www.cbc.ca/video/#/News/TV\\_Shows/Lang\\_&\\_O'Leary\\_Exchange/1](http://www.cbc.ca/video/#/News/TV_Shows/Lang_&_O'Leary_Exchange/1) (36:43)

The Natural Step Webinar, July 18, 2011, *Renewable Energy in Canada*, [www.thenaturalstep.org/en/canada/renewable-energy-canada-sustainabilitydialogue](http://www.thenaturalstep.org/en/canada/renewable-energy-canada-sustainabilitydialogue)

Canadian Solar Industries Association (CanSIA), May 31, 2011, *Political Change in the West: Will there be New Opportunities for Solar?*, [www.cansia.ca/solarconferences/solar-west-2011](http://www.cansia.ca/solarconferences/solar-west-2011)

Canadian Association of Members of Public Utility Tribunals (CAMPUT), May 16, 2011, *Green is Great, But Who Pays?* [www.camput.org/documents/CamputFlyerMay2Eng\\_000.pdf](http://www.camput.org/documents/CamputFlyerMay2Eng_000.pdf)

CTV, Alberta Primetime, *Our Reliance on Coal Power in Alberta* - Oct. 6, 2010, [www.albertaprimetime.com/Stories.aspx?pd=1539&FlashVars=Video%2FPTG\\_100610.flv](http://www.albertaprimetime.com/Stories.aspx?pd=1539&FlashVars=Video%2FPTG_100610.flv)

Business Television Network, July 22, 2009, *Why TransAlta really wants Canadian Hydro*, <http://watch.bnn.ca/the-close/july-2009/the-close-july-20-2009/#clip195483>

### TIM WEIS

tmweis@alumni.uwaterloo.ca  
h: 780.435.9054  
4904-116 Street  
Edmonton, AB, T6H 3R1  
@weis\_renewables