

## CANADIAN ENERGY RESEARCH INSTITUTE – PUBLICATIONS

Recent publications are available to the public for download from our website. To obtain copies of older reports (subject to availability), please contact Megan Murphy by email at [mmurphy@ceri.ca](mailto:mmurphy@ceri.ca)

### Studies

- No. 166 *Economic Impacts of Canadian Oil and Gas Supply in Canada and the US (2017-2027)*. Ganesh Doluweera, Paul Kralovic and Dinara Millington. August 2017.
- No. 165 *Economic Potential of Onshore Oil and Gas in New Brunswick and Nova Scotia*. Paul Kralovic, Andrei Romaniuk, Anna Vypovska, Raphael Akaeze and Dinara Millington. June 2017.
- No. 164 *Economic Potentials and Efficiencies of Oil Sands Operations: Processes and Technologies*. Experience Nduagu, Alpha Sow and Dinara Millington. March 2017.
- No. 163 *Canadian Oil Sands Supply Costs and Development Projects (2016-2036)*. Dinara Millington. February 2017.
- No. 162 *Greenhouse Gas Emissions Reductions in Canada Through Electrification of Energy Services*. Ganesh Doluweera, Hossein Hosseini and Alpha Sow. January 2017
- No. 161 *Risk Analysis of British Columbia Natural Gas Projects: Environmental and Indigenous Peoples Issues*. Anna Vypovska and Laura Johnson. November 2016.
- No. 160 *Competitive Analysis of the Canadian Petrochemical Sector*. Laura Johnson and Paul Kralovic. October 2016
- No. 159 *Canadian Crude Oil and Natural Gas Production and Supply Costs Outlook (2016 – 2036)*. Laura Johnson, Paul Kralovic and Andrei Romaniuk. September 2016.
- No. 158 *Canadian Natural Gas Market Review*. Laura Johnson, Paul Kralovic, Dinara Millington and Jon Rozhon. June 2016.
- No. 157 *Heavy Barrel Competition in the US Gulf Coast: Can Canadian Heavy Barrels Compete?* Andrea Orellana and Dinara Millington. May 2016
- No. 156 *Low Crude Oil Prices and Their Impact on the Canadian Economy*. Dinara Millington. February 2016.
- No. 155 *An Assessment of Hydroelectric Power Options to Satisfy Oil Sands Electricity Demand*. Ganesh Doluweera. January 2016.
- No. 154 *An Assessment of the Economic and Competitive Attributes of Oil and Natural Gas Developments in Quebec*. Jon Rozhon. November 2015.
- No. 153 *Examining the Expansion Potential of the Petrochemical Industry in Canada*. Karen Mascarenhas. August 2015.
- No. 152 *Canadian Oil Sands Supply Costs and Development Projects (2015-2035)*. Dinara Millington and Carlos A. Murillo. August 2015.
- No. 151 *Oil Sands Industry Energy Requirements and Greenhouse Gas (GHG) Emissions Outlook (2015-2050)*. Carlos A. Murillo. August 2015.
- No. 150 *Western Canada Crude Oil Forecasts and Impacts (2015-2035)*. Peter Howard. July 2015.
- No. 149 *Western Canada Natural Gas Forecasts and Impacts (2015-2035)*. Peter Howard. July 2015.
- No. 148 *LNG Liquefaction for the Asia-Pacific Market: Canada's Place in a Global Game*. Jon Rozhon and Allan Fogwill. June 2015.
- No. 147 *Process Efficiencies of Unconventional Oil and Gas*. Rob McWhinney. June 2015.
- No. 146 *Ribbons of Steel: Linking Canada's Economic Future*. Peter Howard, Paul Kralovic and Martin Slagorsky. May 2015.
- No. 145 *Refining Bitumen: Costs, Benefits and Analysis*. Dinara Millington, Rob McWhinney and Zoey Walden. January 2015.
- No. 144 *Canadian Oil Pathways*. Dinara Millington and Peter Howard. July 2014.
- No. 143 *Oil Sands Environmental Impacts*. Rob McWhinney. July 2014.
- No. 142 *Economic Impacts of Natural Gas Development Within the Yukon Territory*. Jon Rozhon. February 2015
- No. 141 *Canadian Oil Sands Supply Costs and Development Projects (2014-2048)*. Dinara Millington, Carlos A. Murillo and Rob McWhinney. July 2014.
- No. 140 *Economic Analysis of TransCanada's Energy East Pipeline Project*. Zoey Walden. May 2014.
- No. 139 *Natural Gas Liquids (NGLs) in North America: An Update. Part IV – Global Markets and Opportunities*. Carlos A. Murillo. May 2014.
- No. 139 *Natural Gas Liquids (NGLs) in North America: An Update. Part III – Market Fundamentals*. Carlos A. Murillo. May 2014.
- No. 139 *Natural Gas Liquids (NGLs) in North America: An Update. Part II – Midstream and Downstream Infrastructure*. Carlos A. Murillo. May 2014.
- No. 139 *Natural Gas Liquids (NGLs) in North America: An Update. Part I – Upstream*. Carlos A. Murillo. May 2014.
- No. 138 *North American Natural Gas Pathways*. Peter Howard and Zoey Walden. June 2013.
- No. 137 *United States Oil Industry and Liquid Supply/Demand to 2022*. Peter Howard and Carlos A. Murillo. June 2013.
- No. 136 *Conventional Natural Gas Supply Costs in Western Canada*. Julie Dalzell. June 2013.
- No. 135 *Conventional Oil Supply Costs in Western Canada*. Julie Dalzell. June 2013.
- No. 134 *Heavy-Duty Diesel Vehicle: Their Carbon-Constrained Future Role Within the North American Economy*. Jon Rozhon. May 2013.
- No. 133 *Canadian Oil Sands Supply Costs and Development Projects (2012-2046)*. Dinara Millington and Carlos A. Murillo. May 2013.
- No. 132 *Potential Economics of Developing Quebec's Shale Gas*. Anthony Mersich. March 2013.
- No. 131 *Global LNG: Now, Never, or Later?* Zoey Walden. January 2013.
- No. 130 *Natural Gas Liquids in North America: Overview and Outlook to 2035*. Carlos A. Murillo. July 2012.

- No. 129 *Pacific Access: Part I – Linking Oil Sands Supply to New and Existing Markets.* Dinara Millington and Jon Rozhon. July 2012.
- No. 129 *Pacific Access: Part II – Asia-Directed Oil Pathways and Their Economic Impacts.* Thorn Walden, Jon Rozhon, Zoey Walden and Dinara Millington. July 2012.
- No. 129 *Pacific Access: Part III – Economic Impacts of Exporting Horn River Natural Gas to Asia as LNG.* Thorn Walden and Zoey Walden. July 2012.
- No. 129 *Pacific Access: Part IV – Oil Spills and First Nations: Exploring Environmental and Land Issues Surrounding the Northern Gateway Pipeline.* Zoey Walden and Jon Rozhon. February 2012.
- No. 129 *Pacific Access: Part V – Overview of Transportation Options.* Paul Kralovic. January 2012.
- No. 129 *Pacific Access: Part VI – Foreign Investment in the Oil Sands and British Columbia Shale Gas.* Jon Rozhon. March 2012.
- No. 128 *Canadian Oil Sands Supply Costs and Development Projects (2011-2045).* Dinara Millington, Carlos A. Murillo, Zoey Walden and Jon Rozhon. March 2012.
- No. 127 *Overview of Eastern and Atlantic Canada’s Petroleum Industry and Economic Impacts of Offshore Atlantic Projects.* Carlos A. Murillo. November 2011.
- No. 126 *Emission Abatement Potential for the Alberta Oil Sands Industry and Carbon Capture and Storage (CCS) Applicability to Coal-Fired Electricity Generation and Oil Sands.* Zoey Walden. October 2011.
- No. 125 *Economic Impacts of Staged Development of Oil Sands Projects in Alberta (2010-2035).* Afshin Honarvar, Dinara Millington, Jon Rozhon, Thorn Walden and Carlos A. Murillo. June 2011.
- No. 125a *A Decade of Staged Oil Sands Growth (2010-2020).* Afshin Honarvar, Dinara Millington, Jon Rozhon, Thorn Walden and Carlos A. Murillo. June 2011.
- No. 124 *Economic Impacts of New Oil Sands Projects in Alberta (2010-2035).* Afshin Honarvar, Jon Rozhon, Dinara Millington, Thorn Walden, Carlos A. Murillo and Zoey Walden. May 2011.
- No. 124a *Economics of Drilling, Completing and Operating Conventional Oil Wells in Western Canada (2010-2035).* Peter Howard, Afshin Honarvar, Carlos A. Murillo. June 2011
- No. 124b *Economic Impacts of Drilling, Completing and Operation of Gas Wells in Western Canada (2010-2035).* Peter Howard, Afshin Honarvar, Carlos A. Murillo. June 2011.
- No. 123 *North American Natural Gas Dynamics: Natural Gas Vehicles – A Review (Section IV).* Jon Rozhon. March 2011.
- No. 123 *North American Natural Gas Dynamics: Coal-fired Generation in North America – A Review (Section III).* Paul Kralovic. March 2011.
- No. 123 *North American Natural Gas Dynamics: Global LNG – A Review (Section II).* Mellisa Mei. June 2011.
- No. 123 *North American Natural Gas Dynamics: Shale Gas Plays in North America – A Review (Section I).* Pau Kralovic. February 2011.
- No. 122 *Canadian Oil Sands Supply Costs and Development Projects (2010-2044).* Dinara Millington and Mellisa Mei. May 2011.
- No. 121 *Canadian Oil Sands Supply Costs and Development Projects (2009-2043).* David C. McColl, Mellisa Mei, Dinara Millington and Martin Slagorsky. November 2009
- No. 120 *Economic Impacts of the Petroleum Industry in Canada.* July 2009.
- No. 119 *Green Bitumen: The Role of Nuclear, Gasification and CCS in Alberta’s Oil Sands.* David McColl. February 2009.
- No. 118 *Canadian Oil Sands Supply Costs and Development Projects, 2008-2030.* David McColl and Martin Slagorsky. November 2008
- No. 117 *Canadian Oil Sands Supply Costs and Development Projects, 2007-2027.* David McColl. October 2007
- No. 116 *The Economics of Significant Wind Power Development in Canada.* Karl Pinno, Paul Kralovic, Dinara Mutysheva and Janna Poliakov. August 2007. Volume I: Current Status of Wind Power in Canada and Other Selected Countries; Volume II: Levelized Unit Electricity Cost of Wind Compared with Alternate Technologies; Volume III: Integrating Wind Power into Electricity Systems: Issues and Challenges.
- No. 115 *Oil Sands Industry Update: Production Outlook and Supply Costs 2006-2020.* Nicole LeBlanc and David McColl.
- No. 114 *Socio-Economic Impact of Horseshoe Canyon Coalbed Methane Development in Alberta.* A joint project of the Canadian Energy Research Institute and the Canadian Society for Unconventional Gas. Peter Howard, Govinda Timilsina, Janna Poliakov, Michael Gatens, Peter Bastian and Chris Muncy
- No. 113 *Capacity of the Western Canada Natural Gas Pipeline System – Summary Reports for Volumes I and II.* Peter Howard, David McColl, Dinara Mutysheva and Paul Kralovic.
- No. 113 *Capacity of the Western Canada Natural Gas Pipeline System – Volume II.* Peter Howard, David McColl, Dinara Mutysheva and Paul Kralovic.
- No. 113 *Capacity of the Western Canada Natural Gas Pipeline System – Volume I.* Peter Howard, David McColl, Dinara Mutysheva and Paul Kralovic.
- No. 112 *Cogeneration Opportunities and Energy Requirements for Canadian Oil Sands Projects, Summary Report.* Nicole LeBlanc, David McColl, Luke Chan, Bob Dunbar, George Eynon, Seyed Jazayeri, Vincent Lauerman, Abbas Naini and Melanie Stogran.
- No. 112 *Cogeneration Opportunities and Energy Requirements for Canadian Oil Sands Projects, Volumes I-V.* Nicole LeBlanc, David McColl, Luke Chan, Bob Dunbar, George Eynon, Seyed Jazayeri, Vincent Lauerman, Abbas Naini and Melanie Stogran.
- No. 111 *Economic Impacts of LNG Imports to Atlantic Canada, Summary Report.* A joint project of the Canadian Energy Research Institute and Petroleum Research Atlantic Canada.
- No. 111 *Economic Impacts of LNG Imports to Atlantic Canada, Volume I and Volume II.* A joint project of the Canadian Energy Research Institute and Petroleum Research Atlantic Canada.
- No. 110 *Economic Impacts of Alberta’s Oil Sands, Executive Summary.* Govinda R. Timilsina, Nicole LeBlanc and Thorn Walden. August 2005.
- No. 110 *Economic Impacts of Alberta’s Oil Sands, Volumes I and II.* Govinda R. Timilsina, Nicole LeBlanc and Thorn Walden. August 2005.
- No. 109 *Generation Capacity Issues in Deregulated Markets, A Canadian Perspective – Volume I.* Matt Ayres, Beverly Brereton, Daniel Czamanski, Blain van Melle and Alec Penman. April 2004.
- No. 109 *Generation Capacity Issues in Deregulated Markets, A Canadian Perspective – Volume II.* Matt Ayres, Beverly Brereton, Daniel Czamanski, Blain van Melle and Alec Penman. April 2004.

- No. 108 *Oil Sands Supply Outlook: Potential Supply and Costs of Crude Bitumen and Synthetic Crude Oil in Canada, 2003-2017*. R.B. (Bob) Dunbar, Melanie Stogran, Pauline Chan, and Kok-sum (Sam) Chan. March 2004.
- No. 107 *Potential Supply and Costs of Natural Gas in Canada*. Paul Mortensen, Matthew Foss, Brian Bowers and Peter Miles. June 2003.
- No. 106 *Costs for Capture and Sequestration of Carbon Dioxide in Western Canadian Geologic Media*. Larry Fisher, Trevor Sloan and Paul Mortensen. June 2002.
- No. 105 *Energy Scenarios for the 21<sup>st</sup> Century*. Vincent Lauerma. January 2002.
- No. 104 *The Potential of Stationary Fuel Cells in Canada: 2000-2010*. Louise Gill, Debasish Datta, Mohamed B. Pantanguli and Robert Spragins. November.
- No. 102 *Canadian Natural Gas Liquids: Market Outlook 2000-2010*. Louise Gill and Paul Mortensen. April 2001.
- No. 101 *Markets for Canadian Bitumen-Based Feedstock*. Richard Marshall, Vincent Lauerma and Nancy Yamaguchi. February 2001.
- No. 100 *2000 Western Canada Natural Gas Producer Survey & Deliverability Outlook*. Paul Mortensen, Matthew Foss and Trevor Sloan. October 2000.
- No. 99 *Electricity and Gas: Market and Price Convergence. Fundamentals of Restructuring and Convergence*. Howard Heintz and Robert Spragins. July 2000.
- No. 98 *The Alberta Electricity Market: An Analysis and Price Forecast*. Howard Heintz and Isak Lurie. June 2000.
- No. 97 *Analysis of Basis at Eastern Hubs and the Impact of Gas from Sable Island*. Paul Mortensen, Benjamin Schlesinger and Ajit Ratra. June 2000.
- No. 96 *Electricity and Gas: Market and Price Convergence. Restructuring of the Electricity and Natural Gas Industries*. Howard Heintz, Robert Spragins and Daniel Suurkask. June 2000.
- No. 95 *Overcoming Barriers to the Implementation of District Energy Projects: Volume 1*. Geoffrey J. Edwards, K. Morgan MacRae and Stacey Schorr. May 2000.
- No. 95 *Overcoming Barriers to the Implementation of District Energy Projects: Volume 2*. Geoffrey J. Edwards, K. Morgan MacRae and Stacey Schorr. May 2000.
- No. 94 *The Economic Implications of International Power Sector Restructuring*. Eva Cudmore and Mitch Rothman. April 2000.
- No. 93 *Western Canada Crude Oil Production Outlook (2000-2010)*. Richard Marshall and Larry Fisher. January 2000.
- No. 92 *1999 Canadian Natural Gas Producer Survey and Deliverability Outlook*. Robert Mahan. November 1999.
- No. 91 *Supply Costs and Economic Potential for the Steam Assisted Gravity Drainage Process*. Larry Fisher and Louise Gill. September 1999.
- No. 90 *The Environmental Implications of International Power Sector Restructuring*. Bunli Yang, Abha Bhargava, Eva Cudmore. July 1999.
- No. 89 *Finding and Development Costs for Oil and Gas, Western Canada, 1992-1998*. Richard Marshall, July 1999.
- No. 88 *Supply Costs for Canadian and International Crude Oil Sources*. Larry Fisher, Louise Gill and Ken Warrington, June 1999.
- No. 87 *Electricity Generation in Canada: Tax Depreciation Issues Arising From Market Deregulation and Climate Change*. Geoffrey J. Edwards and Ronald S. Edwards, May 1999.
- No. 86 *The Impact of Electricity Restructuring on the Natural Gas Industry*. George Given, March 1999.
- No. 85 *Seventh Annual Survey of Canadian Natural Gas Deliverability, Production, Reserves, and Investment, 1996-2000*. Robert Mahan and Leonard Coad, October 1998.
- No. 84 *North American Natural Gas Long-Term Outlook: Market and Transportation Opportunities*. Rob Mahan. May 1998.
- No. 83 *World Oil Market Fundamentals, Part 1: Near Term Outlook*. Judith Dworkin, Karen Morton and Raja Datta. March 1998.
- No. 82 *The Environmental Benefits and Economics of Hydrogen as a Vehicle Fuel in Canada*. Louise Gill. February 1998.
- No. 81 *South America Natural Gas Trade: The Road Ahead*. Anthony E. Reinsch, Roger Tissot and Denelle Peacey. November 1997.
- No. 80 *Finding and Development Costs for Oil and Gas in Western Canada, 1992-1996*. David Quinn and Andy Luthin. September 1997.
- No. 79 *Facilitating Major Additions to Gas Pipeline Capacity: Innovative Approaches to Financing, Contracting and Regulation*. Benjamin Schlesinger and Roland George, ed. September 1997.
- No. 78 *Survey of Canadian Natural Gas Deliverability, Production, Reserves, and Investment, 1995-1999*. Roland George, George Given and Paul Mortensen. July 1997.
- No. 77 *Market Potential for Canadian Crude Oil*. Michelle Heath, Larry Fisher, Dorothy Golosinski, Andy Luthin, Louise Gill, and Charlotte Raggett. January 1997.
- No. 76 *Strategies and Sanctions: World Oil Market Projections, 1996-2011*. Anthony E. Reinsch, Jennifer I. Considine and Tom Kenworthy. November 1996.
- No. 75 *Charting New Frontiers: Electric Power Reform*. Adrienne S. Kwaczek and K. Morgan MacRae. November 1996.
- No. 74 *The Economics of Natural Gas Development in the Southern Mackenzie Valley*. George Given and Roland George. September 1996.
- No. 73 *Repowering Alberta: Options for Electrical Generating Units; Economics and Emissions Impacts*. K. Morgan MacRae, Adrienne Kwaczek and Anthony E. Reinsch. September 1996.
- No. 72 *Modelling Air Emission Control Strategies for Saskatchewan*. Adrienne S. Kwaczek, K. Morgan MacRae and Barbara D. Baker-Stariha. June 1996.
- No. 71 *North American Natural Gas Outlook: Basin-on-Basin Competition*. Paul Mortensen, Roland George and Denelle Peacey. May 1996.
- No. 70 *Alternative Transportation Fuels in Canada: Prospects and Policies*. Michelle Heath, Dorothy Golosinski, Charlotte Raggett and David Quinn. November 1996.
- No. 69 *Survey of Canadian Natural Gas Deliverability, Production, Reserves and Investment 1994-1998*. Roland George, George Given and Denelle Peacey. April 1996.
- No. 68 *The Sarnia Complex: Synergies and Strategies*. Michelle Heath, Kok-sum Chan, Garth Renne and Charlotte Raggett.
- No. 67 *Canadian Natural Gas Demand: Historical Trends, Forecasting Methodologies and Outlook*. George Given, Roland George and Megan Valentine. November 1995.
- No. 66 *Natural Gas Liquids Market Outlook*. Michelle Heath, Kok-sum Chan, Garth Renne and Charlotte Raggett. September 1995.
- No. 65 *Battle for Market Share: World Oil Market Projections, 1995-2010*. Jennifer I. Considine and Anthony E. Reinsch. September 1995.

- No. 64 *Petroleum Industry in Latin America, Volume 1, 2 and 3.* Anthony E. Reinsch and Roger R. Tissot. August 1995
- No. 63 *Towards A Continental Natural Gas Market The Integration of Mexico.* Roland George and Paul Mortensen. August 1995. **OUT OF PRINT**
- No. 62 *Survey of Canadian Natural Gas Deliverability, Production, Reserves and Investment, 1993-1997.* Paul Mortensen and George Given. August 1995.
- No. 61 *Conventional Oil Supply & Oil and Gas Replacement Costs: Alberta and Saskatchewan.* Michelle Heath, Kok-sum Chan and John Stariha. February 1995.
- No. 60 *Modelling Air Emission Control Strategies for Alberta.* Morgan MacRae, Barbara Baker-Stariha and Anthony Reinsch. December 1994.
- No. 59 *Taxing the Difference: World Oil Market Projections, 1994-2009.* Anthony E. Reinsch, Jennifer I. Considine and Edward J. MacKay. September 1994.
- No. 58 *Exploring an Integrated Energy Strategy for the North.* Anthony E. Reinsch and R. Douglas Burch. September 1994.
- No. 57 *Transportation Demand Management: A Policy Challenge.* Morgan MacRae. August 1994.
- No. 56 *Electric Vehicles: Economic Costs, Environmental Benefits.* Garth Renne, Clyde Carr and Michelle Heath. August 1994.
- No. 55 *Survey of Canadian Natural Gas Deliverability, Production, Reserves and Investment, 1992-1997.* Paul Mortensen and Peter Linder. March 1994.
- No. 54 *Saskatchewan's Potential for E.O.R. and Horizontal Drilling, Volume I.* Kok-sum Chan, Garth Renne, Michelle Heath and John Stariha. January 1994.  
*Saskatchewan's Potential for E.O.R. and Horizontal Drilling, Volume II.* Kok-sum Chan, Garth Renne, Michelle Heath and John Stariha. January 1994. Contains the detailed listings of pool-process specific results
- No. 53 *Expanding U.S. Markets for Canadian Crude Oil.* Michelle Heath, Gerry Angevine, Kok-sum Chan, Garth Renne, John Stariha and Ed MacKay. October 1993.
- No. 52 *Natural Gas in Canada and the United States...From Wellhead to Burner-Tip.* Most recent revision February 1998
- No. 51 *Containing Iraq: World Oil Market Projections, 1993-2008.* Anthony E. Reinsch and Jennifer I. Considine. September 1993.
- No. 50 *Demand-Side Management for Natural Gas: Regulation and Implementation.* Barbara D. Baker-Stariha. July 1993.
- No. 49 *Survey of Canadian Natural Gas Deliverability and Production, 1991-1996.* Peter T. Linder. February 1993. **OUT OF PRINT.**
- No. 48 *Oil in the Former Soviet Union: Historical Perspectives and Long-Term Outlook.* Anthony E. Reinsch, Igor Lavrovsky and Jennifer I. Considine. October 1992.
- No. 47 *Challenging OPEC: World Oil Market Projections, 1992-2007.* Anthony E. Reinsch and Jennifer I. Considine. August 1992.
- No. 46 *Long-Term Outlook for World Gas Trade.* Michael W. MacDougall and Peter T. Linder. July 1992. **OUT OF PRINT**
- No. 45 *Realizing the Benefits of Community Integrated Energy Systems.* K. Morgan MacRae. June 1992.  
Executive Summary. Contains both English and French.
- No. 44 *Alberta's Conventional Oil Supply. How Much? How Long?* Michelle Heath. May 1992.
- No. 43 *Demand-Side Management for Electricity: Pushing Back Barriers.* Barbara D. Baker and Ellen F. Battle. March 1992.
- No. 42 *Survey of Canadian Excess Natural Gas Deliverability 1990-95.* Peter Linder. February 1992.
- No. 41 *International Comparisons: Interpreting the Energy/GDP Ratio.* Michele McLachlan. December 1991.
- No. 40 *Coal in Canada.* K. Morgan MacRae. October 1991. **OUT OF PRINT**
- No. 39 *After the Crisis: World Oil Market Projections, 1991-2006.* Anthony E. Reinsch and Jennifer I. Considine. August 1991. **OUT OF PRINT**
- No. 38 *New Coal Technology and Electric Power Development.* K. Morgan MacRae. April 1991.
- No. 37 *Alternative Transportation Fuels: Natural Gas, Propane, Methanol & Ethanol Compared with Gasoline & Diesel.* Michelle Heath. February 1991.
- No. 36 *Emissions Permit Trading: A Policy Tool to Reduce the Atmospheric Concentration of Greenhouse Gases.* Merete Heggelund. January 1991.
- No. 35 *Markets for British Columbia Natural Gas.* David H. Maerz and Leonard A. Coad. November 1990.
- No. 34 *World Oil Market Projections 1990-2005.* Anthony E. Reinsch and Michael A. O'Reilly. March 1990.
- No. 33 *Critical Issues in Electric Power Planning in the 1990s.* Volume I. K. Morgan MacRae. November 1989. **OUT OF PRINT**  
*Critical Issues in Electric Power Planning in tile 1990s.* Volume II. K. Morgan MacRae. December 1989.  
*Critical Issues in Electric Power Planning in the 1990s. Executive Summary.* K. Morgan MacRae. November 1989.
- No. 32 *Continental Natural Gas Market: Canadian Export Capacity in the 90s.* Leonard A. Coad & David H. Maerz. October 1989.
- No. 31 *Canadian Crude Oil Supply/Demand Balances.* James N. Tanner and Anthony E. Reinsch. August 1989.
- No. 30 *Industrial Natural Gas Demand.* Merete Heggelund. May 1989.
- No. 29 *Towards a Commercial Future: Ethanol and Methanol as Alternative Transportation Fuels.* Michelle Heath. January 1989. **OUT OF PRINT)**
- No. 28 *Stability Within Uncertainty: Evolution of the World Oil Market.* Anthony E. Reinsch, Kevin J. Brown, and James O. Stanford. September 1988
- No. 27 *An Assessment of the Potential for Coal-Derived Syncrudes in Canada.* K. Morgan MacRae. June 1988.
- No. 26 *Towards a Continental Natural Gas Market: Historical Perspectives and Long-Term Outlook.* Kevin J. Brown. March 1988. **OUT OF PRINT**
- No. 25 *An Evaluation of Crude Oil Supply in Saskatchewan.* James Tanner. December 1987.
- No. 24 *Industrial Cogeneration in Canada: Prospects and Perspectives.* Anthony E. Reinsch and Ellen F. Battle. March 1987.
- No. 23 *Energy Efficiency in Canada's Pulp & Paper Industry.* Ellen F. Battle. October 1986.
- No. 22 *Natural Gas for Vehicles in Canada: A Study of Market Penetration Problems.* Brian D. Sumner. April 1985.
- No. 21 *Canadian and U.S. Heavy Crude Oil Markets: A Review and Prospects.* Volume I. Canadian Energy Research Institute. April 1985; *Canadian and U.S. Heavy Crude Oil Markets. A Review and Prospects.* Volume II, Appendix Volume to Study No. 21.
- No. 20 *The Oil and Gas Investment Climate: Changes Over a Decade.* DataMetrics Limited. June 1984.  
*The Oil and Gas Investment Climate: Changes Over a Decade.* Appendix Volume to Study No. 20. DataMetrics Limited. June 1984.
- No. 19 *Modelling Exploration Success in Alberta Oil Plays.* Kenneth D. Foat and Alan J. MacFadyen. September 1983.
- No. 18 *Household Energy Savings: Options for the Future.* Brian D. Sumner and Barbara E. Green. March 1983.
- No. 17 *Energy and Regional Investment in Canada.* Gordon W. Douglas and Ellen F. Battle. March 1983.

- No. 16 *Alternative Transportation Fuels in Canada*. Z. Charles Slagorsky. July 1982.
- No. 15 *Coal and Nuclear Electricity Fuels; A Regional Analysis*. Farhood Rahnama. June 1982.
- No. 14 *Impacts of Canada's Uranium Mining Industry*. Marvin Shaffer and Associates Ltd. May 1982.
- No. 13 *Financing Canadian Energy Resource Development*. J.A. Dawson. December 1981.
- No. 12 *Benefits and Costs of Oil Self-Sufficiency in Canada*. J.A. Dawson and Z.C. Slagorsky. February 1981.
- No. 11 *The Impact of a Sharp Oil Price Increase*. G.E. Angevine. June 1980.
- No. 10 *The Impact of Rate Structure Change on Electricity Demand: A Case Study of Calgary Power Limited*. Gerard J. Protti and Robert N. McRae. April 1980.
- Overview and Summary from the Impact of Rate Structure Change on Electricity Demand: A Case Study of Calgary Power Limited*. Gerard J. Protti and Robert N. McRae. April 1980.
- No. 9 *Enhanced Oil Recovery Potential in Canada*. J. Phillip Prince. March 1980.
- No. 8 *Energy Use in Canada in Comparison with Other Countries*. Z. Charles Slagorsky. October 1979.
- No. 7 *Oil and Gas Finding Costs*. Russell S. Uhler. September 1979.
- No. 6 *Energy Policy and the Balance of Payments: An Outline of the Issue*. T.L. Powrie. July 1979.
- No. 5 *Energy in Canada. Review and Outlook to 1995*. W. Brent Friedenbergl. July 1979. **OUT OF PRINT**
- No. 4 *Potential Markets for Thermal Coal in Canada. 1978-2000: Summary and Conclusions*. Canadian Resourcecon Limited. June 1979.
- No. 3 *The Effects of Rising Energy Costs on Canadian Industry*. Anthony P. Ellison. April 1979.
- No. 2 *The Industrial Demand for Oil and Gas in Ontario*. DataMetrics Limited. March 1978.
- No. 1 *The Availability of Capital to Fund the Development of Canadian Energy Supplies*. J.R. Downs. November 1977.

### Briefing Papers

- Development of a Hybrid Energy Input-Output Model of the Canadian Economy. June 2016
- The Associated Gas Sector in Alberta. January 2015
- Economic Impacts of New and Existing Oil Sands Development in Alberta. November 2014

### Special Reports

- The Economics of High Arctic Gas Development: Expanded Sensitivity Analysis*. Luke Chan, George Eynon and David McColl. January 2005.
- A Comparison of Natural Gas Pipeline Options for the North*. Len Coad, Matthew Foss, Stacey Schorr and Peter Jalkotzy. October 2000.
- 2000-1 *Employment in the Canadian Petroleum Industry*. David A. Donald. September 2000.
- 98-1 *Employment in the Canadian Petroleum Industry*. David A. Donald. February 1998.
- 97-4 *1997 Survey of Residential Direct Sales of Natural Gas in Canada*. Noelle Bacalso and George Given. December 1997
- 97-3 *Natural Gas Utilization for Selected Electric Power Generating Units in Nova Scotia: Economics and Emissions*. K. Morgan MacRae. October 1997.
- 97-2 *Natural Gas Pipelines: New Pipelines and Expansions*. Robert Mahan and Karen Morton. April 1997.
- 97-1 *Alberta's Midstream Gas Industry*. George Given. April 1997.
- 96-2 *Symposium on the Science of Climate change for Decision-Makers*. Canadian Energy Research Institute and The Clean Air Strategic Alliance. January 1996.
- 96-1 *An Evaluation of SO<sub>2</sub> Projections for Alberta*. Morgan MacRae. January 1996.
- 95-2 *Planning for the Indian Power Sector: Environmental and Development Considerations*. Canadian Energy Research Institute and Tata Energy Research Institute. June 1995.
- 95-1 *An Analytical Framework for Assessing British Columbia's Natural Gas Industry*. Paul Mortensen and Denelle Peacey. December 1995.
- 94-1 *Report on the Employment in the Canadian Oil and Gas Industry*. Bob Buchanan. December 1994.
- 92-1 *Report on the Employment in the Canadian Oil and Gas Industry*. Bob Buchanan. October 1992.
- 91-1 *A Review of the Need for the Establishment of a Canadian Potential Gas Committee*. Gerry Angevine. August 1991.

### Research Reports

- 95-1 *Survey of Canadian Natural Gas Deliverability, Production, Reserves and Investment*. Roland George and Walter Litvinchuk. October 1995.
- 93-1 *Replacement Costs for Oil and Gas in Western Canada: 1970-1991*. Kok-sum Chan and John Stariha. February 1993.
- 92-1 *Replacement Costs for Oil and Gas in Western Canada: 1970-1 990*. Anne Kolody. April 1992.
- 91-1 *Replacement Costs for Oil and Gas in Western Canada: 1970-1989*. Michele McLachlan. February 1991.
- 90-1 *Replacement Costs for Oil and Gas in Western Canada: Methodologies and Application*. Michele McLachlan. April 1990.
- 89-1 *Oil and Gas Finding Costs in Alberta: 1970-1987*. Michele McLachlan. May 1989.
- 90-1 *Replacement Costs for Oil and Gas in Western Canada: Methodologies and Application*. Michele McLachlan. April 1990.
- 89-1 *Oil and Gas Finding Costs in Alberta: 1970-1987*. Michele McLachlan. May 1989.
- 88-1 *Oil and Gas Finding Costs in Alberta: 1970-1986*. Janice L. Pasay. May 1988.
- 87-2 *A Peak Load Forecasting Model Case Study: The Alberta Interconnected System*. K. Morgan MacRae. July 1987. **OUT OF PRINT**
- 87-1 *Oil and Gas Finding Costs in Alberta: 1970-1985*. Janice L. Pasay. January 1987.
- 86-2 *Reserves of Hydrocarbons in Alberta: A Review of Canadian Petroleum Association and Alberta Energy Resources Conservation Board Estimates and Methodology*. James N. Tanner. November 1986.
- 86-1 *The Effect of the Western Accord and Recent Provincial Royalty Changes on Petroleum Industry Capital Expenditures*. Janice L. Pasay. March 1986.
- 85-2 *Estimated Petroleum Finding Costs in Alberta, 1970-1983*. Z. Charles Slagorsky and Janice L. Pasay. October 1985.

- 85-1 *The Wolf Lake Project: An Example of Benefits to the Canadian Economy from Commercial Oil Sands Development*. Louise Czaja, Michael Kirkegaard, Walter Haessel and Gordon Douglas. March 1985.
- 84-1 *The Costs of Transportation Fuel from Methanol Versus Oil Sands*. Brian D. Sumner, Tricia Gibson, and Z. Charles Slagorsky. December 1984.
- 83-1 *Potential Benefits and Costs of Canadian Electricity Exports*. Ellen F. Battle, Gordon S. Gislason, and Gordon W. Douglas. April 1983.
- 82-2 *Interregional Economic Impacts of the Alberta Oilsands Project*. Gordon W. Douglas and J.A. MacMillan. September 1982.
- 82-1 *The Economics of Improved Energy Efficiency, in New Calgary Housing*. Barbara E. Green. March 1982.
- 81-1 *Models for Energy Policy Analysis: A Survey*. Kenneth D. Foat, Gerard J. Protti, and Gordon W. Douglas. July 1981 (Price \$10.00, 121 pages) ISBN 0-920522-16-5.

### **CERI Conference Proceedings**

Please visit our website at [www.ceri.ca](http://www.ceri.ca) for information and pricing or contact Capri Gardener at (403) 220-2380 or [cgardener@ceri.ca](mailto:cgardener@ceri.ca).

### **Geopolitics of Energy**

Geopolitics of Energy provides regular insights and opinion from internationally recognized authorities on the political, economic and pricing factors affecting the trade of crude oil, natural gas, coal and other forms of energy around the world.

For subscription pricing inquiries, please contact Megan Murphy at [mmurphy@ceri.ca](mailto:mmurphy@ceri.ca).

### **CERI Commodity Reports**

*CERI Natural Gas Report* is a monthly publication that examines near-term North American natural gas market fundamentals. Coverage includes the key drivers of natural gas activity, supply, demand, and storage, as well as weather expectations, and their impacts on natural gas prices. The report comments on a broad range of elements: active rig count, well licensing, completions, production volumes, Canadian system receipts, LNG imports, energy commodity prices, and so on. The basic elements are consistent from issue to issue. Additional topical articles and reports vary with the marketplace annual cycle, gas industry activity, impacts of other energy sectors, and global issues affecting North American natural gas.

*CERI Crude Oil Report* is an original, thought provoking monthly publication focusing on short-term developments (including geopolitical ones) in the world oil market, as well as issues impacting the oil market in the longer term. The outlook section provides information and analysis pertaining to the oil market up to eight quarters into the future. This includes forecasted (and historical) supply, demand and inventory information, comparisons with other organizations' forecasts, information pertaining to OPEC behavior and the forward market, as well as CERI's oil price forecast. The Data Appendix provides in-depth information on the world, US and Canadian oil markets.

*CERI Electricity Report* provides snapshots on aspects of the Provincial electricity markets as well as national, provincial and territorial policy developments.

CERI's monthly (Natural Gas, Crude Oil) and quarterly (Electricity) reports are available for download from our website at [www.ceri.ca](http://www.ceri.ca).