

Table of contents

| | | |
|----------|---|-----------|
| 1 | MARKET OVERVIEW AND RECENT DEVELOPMENTS | 3 |
| 1.1 | MARKET LIBERALIZATION | 3 |
| 1.2 | RECENT DEVELOPMENTS | 4 |
| 2 | MODELING ASSUMPTIONS | 8 |
| 2.1 | MARKET TOPOLOGY..... | 8 |
| 2.2 | FUEL PRICE PROJECTIONS..... | 9 |
| 2.3 | EMISSIONS COSTS | 9 |
| 2.4 | COST OF GENERIC NEW ENTRY | 10 |
| 2.5 | IMPORT AND EXPORT FLOWS | 12 |
| 2.6 | DEMAND AND SUPPLY | 12 |
| 3 | 10-YEAR PRICE FORECAST | 17 |
| 3.1 | ENERGY MARKET PRICES..... | 17 |
| 3.2 | IMPLIED MARKET HEAT RATE | 18 |
| 4 | APPENDIX A: OVERVIEW OF FORECASTING METHODOLOGY | 19 |
| 4.1 | POOLMOD..... | 19 |
| 4.2 | CONJECTUREMOD | 20 |
| 5 | APPENDIX B: INTRODUCTION TO LEI AND ITS WORK IN ALBERTA..... | 21 |

List of figures

| | |
|---|----|
| FIGURE 1. INSTALLED CAPACITY AND GENERATION BY TECHNOLOGY TYPE, 2016..... | 3 |
| FIGURE 2. 2016 INSTALLED CAPACITY FOR MAIN PLAYERS BY OFFER CONTROL AND OWNERSHIP | 4 |
| FIGURE 3. SUMMARY OF RECENT DEVELOPMENTS AND ASSOCIATED PRICE IMPACTS | 4 |
| FIGURE 4. REGIONAL TRANSMISSION INTERFACE LIMITS..... | 8 |
| FIGURE 5. FOSSIL FUEL PRICE PROJECTIONS [NOMINAL CDN.\$/MMBTU] | 9 |
| FIGURE 6. COST OF GENERIC NEW ENTRY ASSUMPTIONS, 2017 | 11 |
| FIGURE 7. MODELED ATC AND IMPORT FLOWS OVER ALBERTA INTERTIES..... | 12 |
| FIGURE 8. ALBERTA INTERNAL LOAD (“AIL”) PEAK LOAD AND ENERGY FORECASTS..... | 13 |
| FIGURE 9. MODELED COAL RETIREMENTS | 13 |
| FIGURE 10. EXPECTED KNOWN NEW ENTRY | 14 |
| FIGURE 11. MODELED NEW AND RETIREMENTS SCHEDULE | 14 |
| FIGURE 12. REGION-WIDE DEMAND-SUPPLY BALANCE | 15 |
| FIGURE 13. INTERNAL RESERVE MARGINS | 15 |
| FIGURE 14. MARGINAL COST-BASED INTERNAL SUPPLY CURVE FOR ALBERTA, 2021 | 16 |
| FIGURE 15. FORECAST ENERGY MARKET PRICES, 2017 THROUGH 2026 [NOMINAL \$/MWh]..... | 17 |
| FIGURE 16. FORECAST IMPLIED MARKET HEAT RATES, 2017 THROUGH 2026 [MMBTU/MWh] | 18 |
| FIGURE 17. POOLMOD’S TWO-STAGE PROCESS..... | 19 |
| FIGURE 18. STEPS IN CONJECTUREMOD | 20 |