



DIRECT TESTIMONY PRESENTATION PUBLIC SESSION - PART II

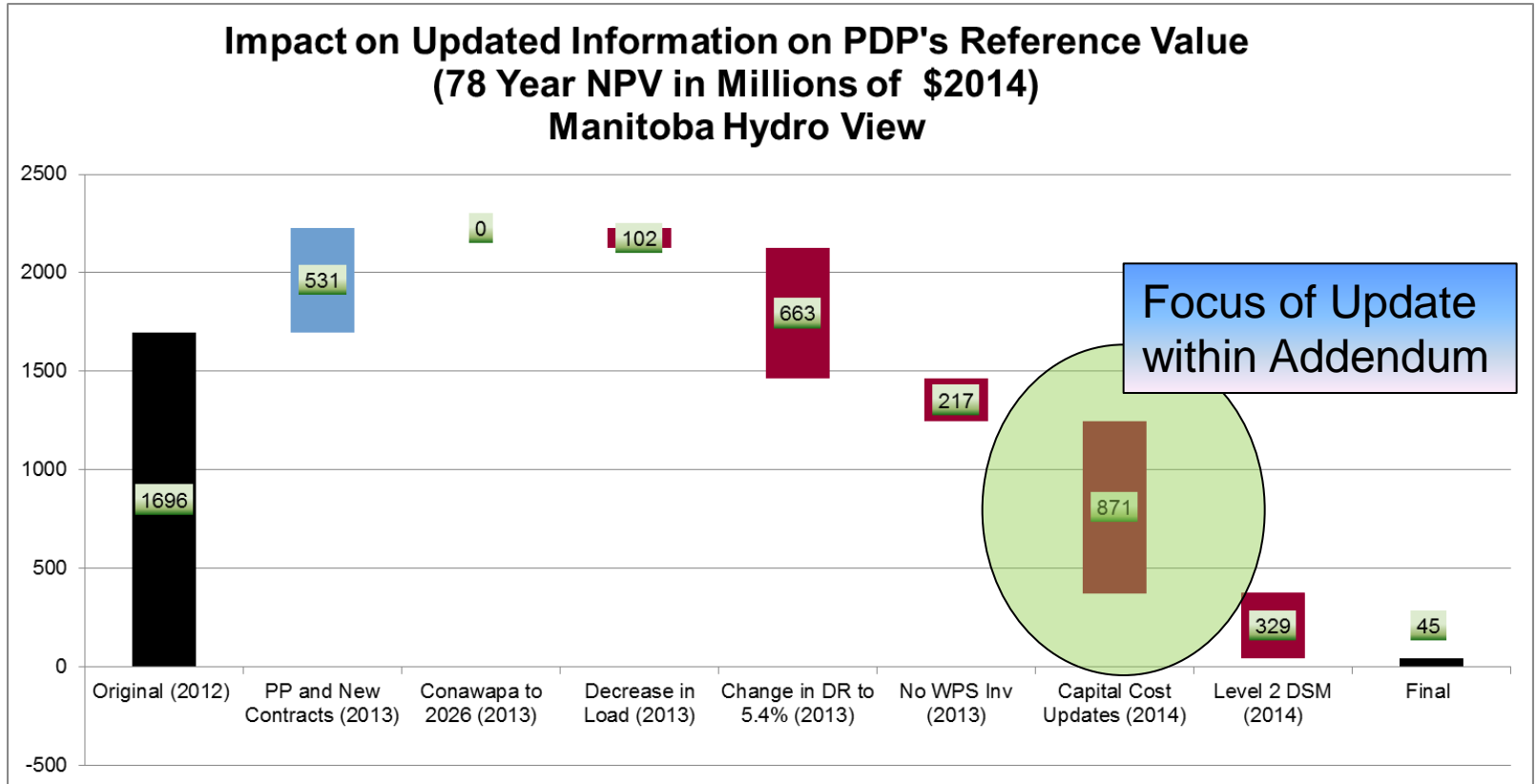
OVERVIEW OF LA CAPRA ASSOCIATES – ADDENDUM TO TECHNICAL APPENDICES 9A & 9B

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Presented to: **Manitoba Public Utilities
Board NFAT Panel**

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MH's Reference Case



AGENDA

- I. MH Analyses Available as Input for Addendum Analysis**
- II. LCA Approach for Limited Update**
- III. Contents of The Addendum**
- IV. Comparisons to Results in Technical Appendix 9A**
- V. Comparisons to Results in Technical Appendix 9B**
- VI. Additional updates that could prove informative.**

I. Manitoba Analysis Analyses

MH Analysis

- 1. NFAT Filing 2012 Vintage Reference Scenario and Uncertainty Analysis of 15 Resource development plans**
- 2. NFAT Filing 2013 Update Reference Scenario assumptions for 5 Resource Plans – 1, 2, 4, 12, and 14**
- 3. Updated Analysis for 2014 Capital Cost Estimates for 2012 Uncertainty Analysis and 2013 Reference Scenario for 6 Resource Plans – 1, 2, 4, 8, 5, and 14 (Plan 6 added in detailed filing)**
- 4. DSM – 3 Levels of Activity for 3 Resource Plans – 1, 5, and 14**

II. Approach for LCA Limited Update

LCA Approach for Limited Update to New Capital Costs

- **Update only 2012 MH Vintage analysis Reference and Uncertainty Analyses**
- **This includes LCA Metrics that were not included in MH 2014 Update**
- **Comparative Derivation of Impacts of Capital Cost updates**
- **Addendum did not accept MH 's revision to Capital Cost Uncertainty Probabilities, i.e. used the probabilities in MH's NFAT filing**
- **Continued to utilize LCA Uncertainty Profile Methodology**
- **Continued to include only Capital Cost and Water Rental Fees as the only Transfer Payments to the Province for the Provincial View**

III. Contents of the Addendum

Contents of Addendum – Figure 9-xx U

- **TA 9A Uncertainty Analysis**
 - PDP Plan 14, Plan 4, Plan 5 vs. All Gas 50 Year & 78 Year Metrics
 - Sensitivity – Elimination of Low Discount Rate Branch
 - Sensitivity – Increase in Probability of Higher Capital Costs
 - Sensitivity – Increase Probability of Low Energy Price for Exports
- **TA 9B Analysis**
 - Alternate Resource Plans – Plan 16 CCGT Plan and Plan 17 No New Gen
 - Value of PDP Components
 - Comparisons Plan 14 vs. Plan 5
 - Export Price Sensitivities
 - Sensitivity to Export Revenues - Uncertainty Analyses

IV. Comparisons to TA 9A Results

V. Comparisons to TA 9B Results

VI. Potential Additional Analyses

Analysis Not Included in Addendum

1. LCA review of detailed Economic Model output now available to verify LCA approach to Addendum update
2. Detailed Economic Model Data can enable Update to most of the TA 9A & 9B not included in addendum.
3. Review and Analysis of the DSM Case Economic Modeling

End of Presentation



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