

IPL 2016 Integrated Resource Plan
DRAFT Table of Contents

List of Figures

List of Tables

Acronyms

Executive Summary

1. Introduction
 - 1.1. IPL Background
 - 1.2. IRP Process
 - 1.2.1 Response to feedback from Stakeholders and IURC
 - 1.3. Objectives of IRP
 - 1.4. Guiding Principles and Assumptions
2. Operating & Planning within MISO
 - 2.1. Business framework & daily operations
 - 2.1.1.Resource, Generation, Demand Response
 - 2.1.2.Transmission operations
 - 2.2. Fuel procurement
 - 2.3. Resource Adequacy
 - 2.4. Transmission Planning Criteria & Process
 - 2.5. Planning Coordination with MISO
3. Distribution
 - 3.1. Distribution system planning
 - 3.2. Smart Grid Technologies and Opportunities
4. Load Forecast and Forecasting Methodology
 - 4.1. Historic inputs
 - 4.2. Drivers
 - 4.3. Methodology
5. Resource Options
 - 5.1. Existing assets
 - 5.2. Supply Side Resources
 - 5.3. Demand Side Resource Options
 - 5.4. Future Options
6. Risks and Environmental Considerations
 - 6.1. Planning Risks
 - 6.2. Environmental Considerations
 - 6.2.1.Existing Regulations
 - 6.2.2.Pending and Future Regulations
 - 6.2.3.Summary of Potential Impacts
7. Resource Portfolio Modeling
 - 7.1. Scenarios – Future worlds
 - 7.1.1.Scenario Development Process
 - 7.1.2.Scenario Descriptions
 - 7.2. Capacity Expansion Model Overview
 - 7.2.1.Fundamental Modeling Input Parameters
 - 7.2.2.Supply side characteristics
 - 7.2.3.Demand side characteristics

- 7.3. Production Cost Model
- 7.4. Sensitivity analysis
- 7.5. Metrics Development Process
- 8. Model Results
 - 8.1. Candidate Portfolios
 - 8.1.1. Capacity and energy charts
 - 8.1.2. DSM charts for each portfolio
 - 8.1.3. PVRR results and comparison
 - 8.2. Sensitivity analysis results
 - 8.2.1. Deterministic carbon analysis for base case
 - 8.2.2. Stochastic analyses results for all scenario portfolios
 - 8.3. Metrics to compare portfolios
 - 8.3.1. Scenario metrics results
 - 8.3.2. Metrics summary
 - 8.4. Preferred Resource Portfolio
 - 8.4.1. Decision Criteria
 - 8.4.2. Preferred Resource Portfolio Characteristics
 - 8.5. Analyses Observations
- 9. Conclusions and Recommendations
 - 9.1. IPL Short-Term Action Plan
 - 9.2. Expectations for future improvements