

**APPENDIX 10-B. NATIONAL ENERGY SAVINGS AND NET PRESENT VALUE
USING ALTERNATIVE ECONOMIC GROWTH SCENARIOS**

TABLE OF CONTENTS

10-B.1 INTRODUCTION 10-B-1
10-B.2 NIA RESULTS USING ALTERNATIVE GROWTH SCENARIOS 10-B-2

LIST OF TABLES

Table 10-B.2.1 Cumulative National Energy Savings and Net Present Value of
Consumer Benefits, High Economic Growth Scenario 10-B-2
Table 10-B.2.2 Cumulative National Energy Savings and Net Present Value of
Consumer Benefits, Low Economic Growth Scenario 10-B-3

LIST OF FIGURE

Figure 10-B.1.1 Housing Starts Forecast Under Alternative AEO2010 Economic
Growth Scenarios 10-B-1
Figure 10-B.1.2 Average Residential Electricity Price Forecasts under Alternative
AEO2010 Economic Growth Scenarios 10-B-2

APPENDIX 10-B. NATIONAL ENERGY SAVINGS AND NET PRESENT VALUE USING ALTERNATIVE ECONOMIC GROWTH SCENARIOS

10-B.1 INTRODUCTION

This appendix presents national energy savings (NES) and net present value (NPV) results using inputs from alternative economic growth scenarios. The scenarios use the energy price and housing starts forecasts in the High Economic Growth case and the Low Economic Growth case from EIA's *Annual Energy Outlook 2010* (AEO 2010).¹

Figures 10-B.1.1 and 10-B.1.2 show the forecasts for housing starts and residential electricity prices under the different economic growth scenarios. *AEO2010* provides a forecast to 2035. To estimate the trend after 2035, DOE followed guidelines that the EIA had provided to the Federal Energy Management Program, which called for using the average rate of change for electricity during 2020–2035.

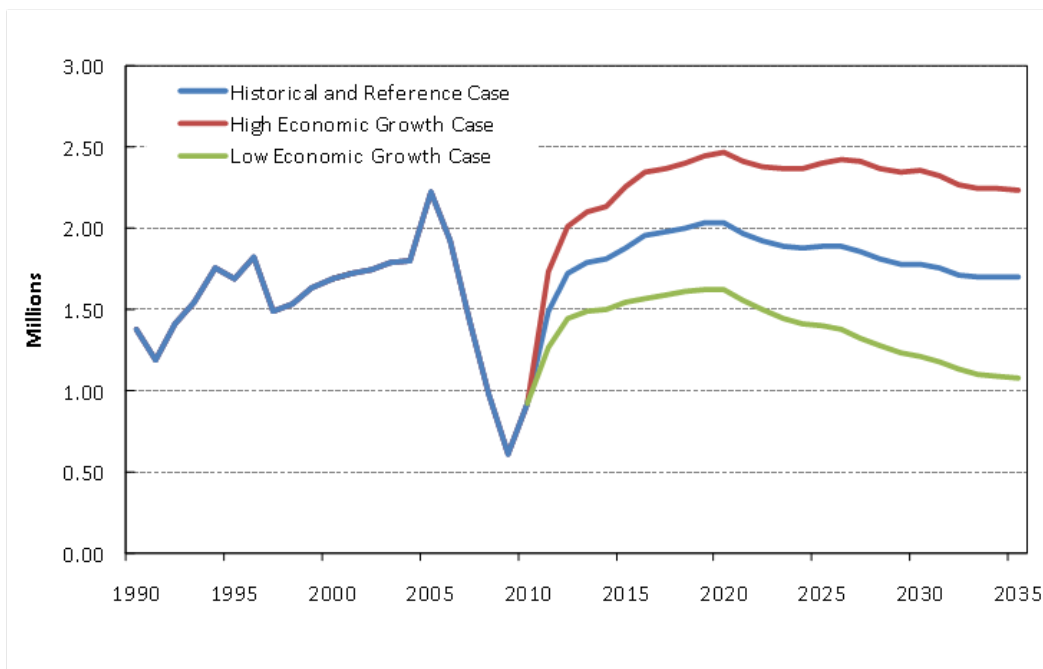


Figure 10-B.1.1 Housing Starts Forecast Under Alternative AEO2010 Economic Growth Scenarios

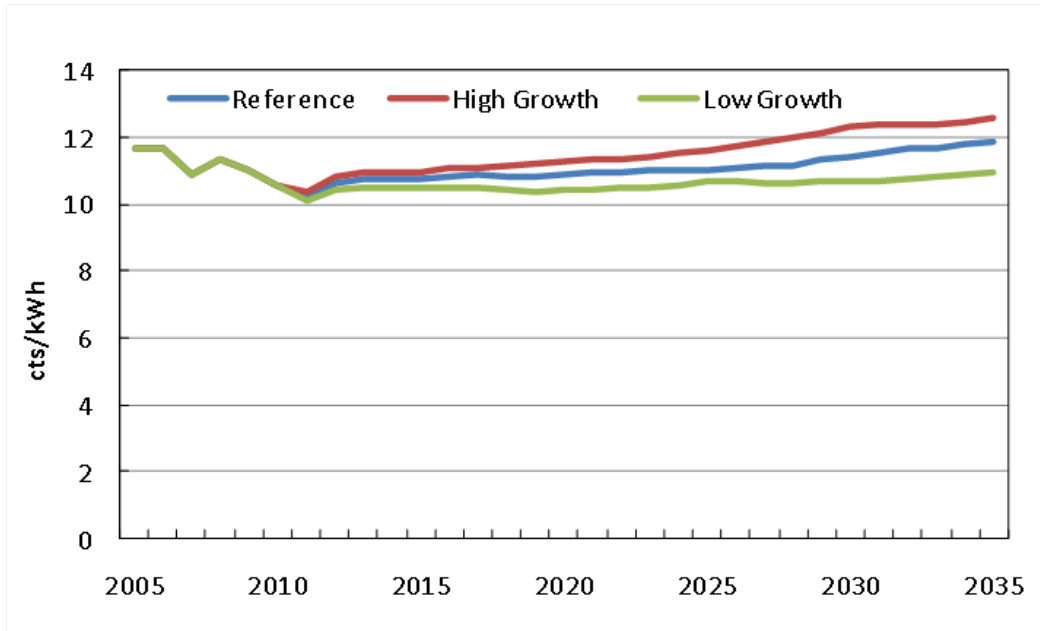


Figure 10-B.1.2 Average Residential Electricity Price Forecasts under Alternative AEO2010 Economic Growth Scenarios

10-B.2 NIA RESULTS USING ALTERNATIVE GROWTH SCENARIOS

Table 10-B.2.1 Cumulative National Energy Savings and Net Present Value of Consumer Benefits, High Economic Growth Scenario

Trial Standard Level (TSL)	NES (Quads)	NPV (billion 2010\$)	
		7% Discount Rate	3% Discount Rate
1	0.22	1.13	2.22
2	0.32	1.58	3.11
3	0.44	2.03	4.04
4	0.67	2.54	5.23

Table 10-B.2.2 Cumulative National Energy Savings and Net Present Value of Consumer Benefits, Low Economic Growth Scenario

Trial Standard Level (TSL)	NES (Quads)	NPV (billion 2010\$)	
		7% Discount Rate	3% Discount Rate
1	0.20	0.92	1.76
2	0.28	1.27	2.46
3	0.39	1.62	3.17
4	0.60	1.98	4.00

REFERENCES

-
- ⁱ U.S. Department of Energy–Energy Information Administration. *Annual Energy Outlook 2010 with Projections to 2035*. May 2010. U.S. DOE–EIA: Washington, D.C. DOE/EIA-0383(2010).