CONTENTS

CHAPTER 1. TO RESCUE, REBALANCE, AND REBUILD ........ 25

Rescuing an Economy in Freefall ................................. 26
  Rescuing the Economy from the Great Recession .......... 28
  Crisis and Recovery in the World Economy ................. 29

Rebalancing the Economy on the Path to Full Employment ............................................. 29
  Saving and Investment ............................................ 29
  Addressing the Long-Run Fiscal Challenge ................. 31
  Building a Safer Financial System ............................ 32

Rebuilding a Stronger Economy ................................. 33
  Reforming Health Care .......................................... 33
  Strengthening the American Labor Force .................. 35
  Transforming the Energy Sector and Addressing Climate Change ........................................ 36
  Fostering Productivity Growth Through Innovation and Trade ........................................... 37

Conclusion .................................................................. 38

CHAPTER 2. RESCUING THE ECONOMY FROM THE GREAT RECESSION ................................ 39

An Economy in Freefall ............................................. 39
  The Run-Up to the Recession .................................. 40
  The Downturn ...................................................... 41
  Wall Street and Main Street .................................... 44

The Unprecedented Policy Response ......................... 46
  Monetary Policy .................................................. 47
  Financial Rescue .................................................. 49
  Fiscal Stimulus .................................................... 51
  Housing Policy .................................................... 55

The Effects of the Policies ........................................ 56
### Annual Report of the Council of Economic Advisers

<table>
<thead>
<tr>
<th>The Financial Sector</th>
<th>57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>60</td>
</tr>
<tr>
<td>Overall Economic Activity</td>
<td>63</td>
</tr>
<tr>
<td>The Labor Market</td>
<td>68</td>
</tr>
<tr>
<td>THE CHALLENGES AHEAD</td>
<td>72</td>
</tr>
<tr>
<td>Deteriorating Forecasts</td>
<td>72</td>
</tr>
<tr>
<td>The Administration Forecast</td>
<td>75</td>
</tr>
<tr>
<td>Responsible Policies to Spur Job Creation</td>
<td>78</td>
</tr>
<tr>
<td>CONCLUSION</td>
<td>79</td>
</tr>
</tbody>
</table>

### CHAPTER 3. CRISIS AND RECOVERY IN THE WORLD ECONOMY

<table>
<thead>
<tr>
<th>INTERNATIONAL DIMENSIONS OF THE CRISIS</th>
<th>81</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spread of the Financial Shock</td>
<td>82</td>
</tr>
<tr>
<td>The Collapse of World Trade</td>
<td>87</td>
</tr>
<tr>
<td>The Collapse in Financial Flows</td>
<td>89</td>
</tr>
<tr>
<td>The Decline in Output Around the Globe</td>
<td>90</td>
</tr>
<tr>
<td>POLICY RESPONSES AROUND THE GLOBE</td>
<td>93</td>
</tr>
<tr>
<td>Monetary Policy in the Crisis</td>
<td>93</td>
</tr>
<tr>
<td>Central Bank Liquidity Swaps</td>
<td>96</td>
</tr>
<tr>
<td>Fiscal Policy in the Crisis</td>
<td>98</td>
</tr>
<tr>
<td>Trade Policy in the Crisis</td>
<td>100</td>
</tr>
<tr>
<td>THE ROLE OF INTERNATIONAL INSTITUTIONS</td>
<td>100</td>
</tr>
<tr>
<td>The G-20</td>
<td>100</td>
</tr>
<tr>
<td>The International Monetary Fund</td>
<td>101</td>
</tr>
<tr>
<td>THE BEGINNING OF RECOVERY AROUND THE GLOBE</td>
<td>102</td>
</tr>
<tr>
<td>The Impact of Fiscal Policy</td>
<td>104</td>
</tr>
<tr>
<td>The World Economy in the Near Term</td>
<td>106</td>
</tr>
<tr>
<td>Global Imbalances in the Crisis</td>
<td>108</td>
</tr>
<tr>
<td>CONCLUSION</td>
<td>111</td>
</tr>
</tbody>
</table>

### CHAPTER 4. SAVING AND INVESTMENT

<table>
<thead>
<tr>
<th>THE PATH OF CONSUMPTION SPENDING</th>
<th>113</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Determinants of Saving</td>
<td>114</td>
</tr>
<tr>
<td>Implications for Recent and Future Saving Behavior</td>
<td>115</td>
</tr>
<tr>
<td>THE FUTURE OF THE HOUSING MARKET AND CONSTRUCTION</td>
<td>117</td>
</tr>
<tr>
<td>The Housing Market</td>
<td>120</td>
</tr>
</tbody>
</table>

---

16 | Annual Report of the Council of Economic Advisers
Promote Robust Supervision and Regulation of Financial Firms ................................................................. 175
Establish Comprehensive Regulation of Financial Markets ...... 176
Provide the Government with the Tools It Needs to Manage Financial Crises .................................................. 178
Raise International Regulatory Standards and Improve International Cooperation ............................................. 179
Protect Consumers and Investors from Financial Abuse ........ 179

CONCLUSION ................................................................................................................................. 180

CHAPTER 7. REFORMING HEALTH CARE ........................................ 181

THE CURRENT STATE OF THE U.S. HEALTH CARE SECTOR ...... 182
Rising Health Spending in the United States ......................... 182
Market Failures in the Current U.S. Health Care System:
Theoretical Background .......................................................... 185
System-Wide Evidence of Inefficient Spending ...................... 188
Declining Coverage and Strains on Particular Groups and Sectors ........................................................................ 191

HEALTH POLICIES ENACTED IN 2009 ................................. 196
Expansion of the CHIP Program ............................................. 197
Subsidized COBRA Coverage .................................................. 197
Temporary Federal Medical Assistance Percentage (FMAP)
Increase .................................................................................... 199
Recovery Act Measures to Improve the Quality and Efficiency of Health Care .................................................... 201

2009 HEALTH REFORM LEGISLATION .................................. 202
Insurance Market Reforms: Strengthening and Securing Coverage ........................................................................ 202
Expansions in Health Insurance Coverage Through the Exchange ...................................................................... 205
Economic and Health Benefits of Expanding Health Insurance Coverage ............................................................ 206
Reducing the Growth Rate of Health Care Costs in the Public and Private Sectors ................................................. 207
The Economic Benefits of Slowing the Growth Rate of Health Care Costs ................................................................. 210

CONCLUSION ................................................................................................................................. 211
CHAPTER 8. STRENGTHENING THE AMERICAN LABOR FORCE ................................................................. 213

Challenges Facing American Workers ............................................. 214
  Unemployment .................................................................................. 214
  Sectoral Change .............................................................................. 216
  Stagnating Incomes for Middle-Class Families ................................ 217

Policies to Support Workers .......................................................... 219

Education and Training: The Groundwork for Long-Term Prosperity ................................................................. 221
  Benefits of Education ...................................................................... 221
  Trends in U.S. Educational Attainment ............................................. 222
  U.S. Student Achievement .............................................................. 226

A Path Toward Improved Educational Performance .... 227
  Postsecondary Education ............................................................... 228
  Training and Adult Education ......................................................... 229
  Elementary and Secondary Education ............................................ 231
  Early Childhood Education ........................................................... 233

Conclusion ............................................................................................. 234

CHAPTER 9. TRANSFORMING THE ENERGY SECTOR AND ADDRESSING CLIMATE CHANGE ........................................ 235

Greenhouse Gas Emissions, Climate, and Economic Well-Being ............................................................................. 236
  Greenhouse Gases .......................................................................... 237
  Temperature Change ...................................................................... 238
  Impact on Economic Well-Being ..................................................... 239

Jump-Starting the Transition to Clean Energy .................. 243
  Recovery Act Investments in Clean Energy .................................... 243
  Short-Run Macroeconomic Effects of the Clean Energy Investments ........................................................................... 246

Other Domestic Actions to Mitigate Climate Change .............................................................................................. 247

Market-Based Approaches to Advance the Clean Energy Transformation and Address Climate Change ... 248
  Cap-and-Trade Program Basics ....................................................... 248
  Ways to Contain Costs in an Effective Cap-and-Trade System ....................................................................................... 250
Coverage of Gases and Industries ................................................................. 253
The American Clean Energy and Security Act ........................................... 254

INTERNATIONAL ACTION ON CLIMATE CHANGE IS NEEDED .......... 255
Partnerships with Major Developed and Emerging Economies .................. 256
Phasing Out Fossil Fuel Subsidies ................................................................. 257

CONCLUSION ........................................................................................................... 257

CHAPTER 10. FOSTERING PRODUCTIVITY GROWTH THROUGH INNOVATION AND TRADE ................................................................. 259

The Role of Productivity Growth in Driving Living Standards ...................... 261
Recent Trends in Productivity in the United States ........................................ 262
Sources of Productivity Growth ................................................................. 264

Fostering Productivity Growth Through Innovation ...................................... 266
The Importance of Basic Research ............................................................... 267
Private Research and Experimentation ....................................................... 269
Protection of Intellectual Property Rights .................................................... 270
Spurring Progress in National Priority Areas ............................................... 272
Increasing Openness and Transparency ....................................................... 272

Trade as an Engine of Productivity Growth and Higher Living Standards ........ 274
The United States and International Trade ................................................... 275
Sources of Productivity Growth from International Trade ......................... 276
Encouraging Trade and Enforcing Trade Agreements ................................. 280

Ensuring the Gains from Productivity Growth Are Widely Shared .............. 282

CONCLUSION ........................................................................................................... 284

REFERENCES ......................................................................................................... 285

APPENDIXES

A. Report to the President on the Activities of the Council of Economic Advisers During 2009 ................................................................. 305

B. Statistical Tables Relating to Income, Employment, and Production ........ 319