



## CONTRIBUTORS

### EXECUTIVE SUMMARY

Kelso King, Principal, King Energy Consulting, Austin, Texas

### INTRODUCTION

Jay Zarnikau, PH.D., President, Frontier Associates, LLC,  
Visiting Professor, Division of Statistics of the College of  
Natural Sciences and the LBJ School of Public Affairs,  
The University of Texas at Austin

Amy Martin, Research Assistant, Frontier Associates LLC,  
Graduate Student, LBJ School of Public Affairs,  
The University of Texas at Austin

### TEXAS CLIMATE

George W. Bomar, Author, Texas Weather, State Meteorologist  
and Weather Modification, Program Specialist,  
Texas Department of Licensing and Regulation

### SOLAR ENERGY

Steven M. Wiese, founder and Principal Consultant of Clean Energy  
Associates, LLC

Gary C. Vliet, Ph.D., Professor Emeritus of Mechanical  
Engineering, The University of Texas at Austin

### WIND ENERGY

Vaughn Nelson, Professor Emeritus, Research Professor,  
Alternative Energy Institute, West Texas A&M University

Kenneth Starcher, Director, Alternative Energy Institute,  
West Texas A&M University

Jeff S. Haberl, Ph.D., P.E., F.ASHRAE, Professor—Department of  
Architecture, Associate Director—Energy Systems Laboratory

Andy Swift, Director, Wind Science and Engineering Research Center,  
Texas Tech University

Edgar DeMeo, Renewable Energy Consulting Services, Inc.,  
Palo Alto, California

Dennis Elliott, Principal Scientist, Wind Technology Center,  
National Renewable Energy Laboratory

### BIOMASS

Jim Ansley, Ph.D., Department of Ecosystem Science & Management,  
Texas A&M University

Robert Avant, Jr., P.E., Program Director, Texas AgriLife Research

David Baltensperger, Ph.D., Department of Soil and Crop Sciences,  
Texas A&M University

Juerg Blumenthal, Ph.D., Department of Soil and Crop Sciences,  
Texas A&M University

Sergio Capereda, Department of Biological and Agricultural  
Engineering, Texas A&M University

Brett Cornwell, Office of Technology Commercialization,  
Texas A&M System

### Contributors

Executive Summary

Texas Climate

Solar Energy

Wind Energy

Biomass Energy

Energy from Water

Geothermal Energy

End-Use Energy  
Efficiency

Summary and  
Conclusions

Darwin Foster, Ph.D., Department of Ecosystem Science & Management,  
Texas A&M University

Armen Kemanian, Ph.D., Department of Biological and Agricultural  
Engineering, Texas A&M University

Ronald Lacewell, Ph.D., Department of Agricultural Economics,  
Texas A&M University

Bruce McCarl, Ph.D., Department of Agricultural Economics,  
Texas A&M University

Ryan McCaffrey, Department of Agricultural Economics,  
Texas A&M University

William McCutchen, Ph.D., Associate Director, Texas AgriLife Research

Travis Miller, Ph.D., Department of Soil and Crop Sciences,  
Texas A&M University

Michelle Nelson, Program Assistant, Texas AgriLife Research

John Nichols, Ph.D., Department of Agricultural Economics,  
Texas A&M University

James Richardson, Ph.D., Department of Agricultural Economics,  
Texas A&M University

Gerald Riskowski, Ph.D., P.E., Department of Biological and Agricultural  
Engineering, Texas A&M University

Ed Rister, Ph.D., Department of Agricultural Economics,  
Texas A&M University

Shay Simpson, Program Manager, Texas AgriLife Research

Steve Searcy, Ph.D., P.E., Department of Biological and Agricultural  
Engineering, Texas A&M University

John Sweeten, Ph.D., P.E., Department of Biological and Agricultural  
Engineering, Texas A&M University

## ENERGY FROM WATER

---

Michael E. Webber, Ph.D., Assistant Professor, Department of Mechanical  
Engineering, Associate Director, Center for International Energy &  
Environmental Policy, Jackson School of Geosciences & Cockrell School  
of Engineering, The University of Texas at Austin

Carey W. King, Ph.D., Research Associate, Center for International Energy  
and Environmental Policy, Jackson School of Geosciences,  
The University of Texas at Austin

## GEOHERMAL ENERGY

---

Maria Richards, Southern Methodist University, Huffington Department  
of Earth Sciences, Geothermal Laboratory, Dallas, Texas.

Richard J. Erdlac, Jr., Ph.D., P.G. (TX, PA) Structural Geologist—  
Exploration Geophysicist Oil, Gas, & Geothermal Research &  
Development, Midland, Texas.

Janet Abbott, Spa Waters of Texas, 501c3 Austin, Texas.

## END-USE ENERGY EFFICIENCY

---

Jay Zarnikau, PH.D., President, Frontier Associates, LLC,  
Visiting Professor, Division of Statistics of the College of  
Natural Sciences and the LBJ School of Public Affairs,  
The University of Texas at Austin

Amy Martin, Research Assistant, Frontier Associates LLC,  
Graduate Student, LBJ School of Public Affairs,  
The University of Texas at Austin

Jeff S. Haberl, Ph.D., P.E., F.ASHRAE,  
Professor—Department of Architecture, Texas A&M University,  
Associate Director—Energy Systems Laboratory

## SUMMARY AND CONCLUSIONS

---

Steven M. Wiese, founder and Principal Consultant of Clean Energy  
Associates, LLC