

**1. Financial interests.**

Personal investing holdings of stocks is disclosed in the Financial Interest Disclosure form as filed with the University of Texas at Austin.

Dr. King does not reside on the Board of Directors for any organizations.

Dr. King has worked on various projects at UT Austin since 2007, and some of these have been funded via gift donations. Past sponsors (via funding via research project agreements or gift payments) include:

- City of Austin (Office of Sustainability)
- Cynthia and George Mitchell Foundation
- Department of Energy (United States)
- Energy Institute of The University of Texas at Austin (via various donors that include Chevron, ConocoPhillips, Dow, Environmental Defense Fund, ExxonMobil, Shell, Toyota, Wal-Mart)
- Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (Germany)
- International Development Research Centre
- Jackson School of Geosciences (University of Texas at Austin)
- Power Across Texas
- Texas State Energy Conservation Office (State of Texas)
- Texas Water Development Board (State of Texas)
- The Nature Conservancy
- The World Bank
- Uluono Initiative
- V. Kann Rasmussen Foundation

**2. Personal interests.**

Dr. King knows of no personal interests that conflict with his research.

**3. Substantive relationships.**

Dr. King knows of no substantive relationships with persons, that conflict with his research.

**1. Financial interests.**

None

**2. Personal interests.**

None

**3. Substantive relationships.**

None

**1. Financial interests.**

None

I am a Co-PI on a research contract through UT that is sponsored by ExxonMobil. Our research focuses on natural gas market modeling, though much more "macro" in time (several decades) and space (North America) than any of the natural gas issues looked at in this report.

**2. Personal interests.**

None

**3. Substantive relationships.**

None

**1. Financial interests.**

I am the Principal Investigator on a project for ERCOT on assessing electric load from oil and gas activities. ERCOT approved the project and it was initiated in February 2021.

The data and analysis under this project are not related to the contents for the report on ERCOT blackout. Furthermore, the data provided by ERCOT for this project is protected under an NDA for this project and it is not used or leverage in writing this report.

**2. Personal interests.**

**3. Substantive relationships.**

**1. Financial interests.**

None

**2. Personal interests.**

None

**3. Substantive relationships.**

None

**1. Financial interests.** None.

Dr. Rai has worked on various projects at UT Austin since 2010. The following is the list of Dr. Rai's external (i.e., non-UT Austin) sponsors:

Past external sponsors for Dr Rai's research include (via funding via research project agreements or research gifts): Cynthia and George Mitchell Foundation, Frontier Associates, GDF Suez (North America), Lawrence Berkeley National Laboratory, Meadows Foundation, National Renewable Energy Laboratory, U.S. Department of Energy.

Current external sponsors for Dr. Rai's research include: Cynthia and George Mitchell Foundation, National Renewable Energy Laboratory.

Besides being an independent researcher, since January 2019 Dr. Rai has also served as the director of the Energy Institute of The University of Texas at Austin. Since 2018 the Energy Institute has received research funding (sponsored research or research gifts) from the following organizations: Chevron, ClearPath Foundation, ConocoPhillips, Cynthia and George Mitchell Foundation, ENGIE, Environmental Defense Fund, ExxonMobil, Pecan Street Project, Public Utilities Commission of Texas, Shell, Sloan Foundation, Texas General Land Office, Toyota Motors North America, Wal-Mart, and Yardi Inc.

These do not include small gifts (< \$5001) received by the Energy Institute from a number of organizations specifically for the purpose of UT Energy Week, a student-run annual conference.

**2. Personal interests.** None.

**3. Substantive relationships.** Dr. Varun Rai's spouse is an employee of NRG Energy, a publicly traded company which has substantial generation and retail interests in the ERCOT market. Dr. Rai has not discussed with his spouse, or anyone else at NRG Energy, the contents of this report in any form.

**1. Financial interests.**

I am a part-owner of the consulting firm IdeaSmiths LLC which consults on a wide range of energy topics, including for some active ERCOT market participants.

**2. Personal interests.**

**3. Substantive relationships.**

Have previously advised PUCT Chairman D'Andrea on energy issues.

**1. Financial interests.**

None

I had a project on synchrophasor that was funded by ERCOT through Baylor University.

**2. Personal interests.**

None

There are probably a dozen or more of our electrical engineering graduates who work for ERCOT. Many of them took classes at UT from me.

**3. Substantive relationships.**

None



**1. Financial interests.**

None

**2. Personal interests.**

None

**3. Substantive relationships.**

None

**1. Financial interests.** None.

**2. Personal interests.** None.

**3. Substantive relationships.** None.

**1. Financial interests.**

Until 1 June, 2021 I was a part-time (40% time) employee of Frontier Energy, a division of the Gas Technology Institute (GTI). Through Frontier Energy, I have provided consulting assistance to the following clients in recent years:

- CPS Energy (energy efficiency and demand response program evaluation)
- CenterPoint Energy (energy efficiency program design, implementation, evaluation)
- Oncor (energy efficiency program design, implementation, evaluation)
- AEP-Texas (energy efficiency program design, implementation, evaluation)
- Texas-New Mexico Power Company (energy efficiency program design, implementation, evaluation)
- Entergy-Texas (energy efficiency program design, implementation, evaluation)
- Xcel Energy (energy efficiency program design, implementation, evaluation)
- El Paso Electric Company (energy efficiency program design, implementation, evaluation)
- Southwestern Electric Power Company (energy efficiency program design, implementation, evaluation)
- Nucor Steel (ERCOT market design and regulatory matters)
- Commercial Metals Corp. (ERCOT market design and regulatory matters)
- Gerdau Steel (ERCOT market design and regulatory matters)
- Sierra Club (energy efficiency potential)

My compensation from Frontier was based on a salary, and not tied to the financial performance of Frontier or GTI or any of my consulting clients.

Frontier and GTI have other clients in the energy industry (primarily outside of Texas) with whom I have not provided consulting services.

**2. Personal interests.**

None.

**3. Substantive relationships.**

None

**1. Financial interests.**

None.

**2. Personal interests.**

None.

**3. Substantive relationships.**

ERCOT is an industry advisor for one of DOE projects that I'm a co-PI of: SOLAr Critical Infrastructure Energization System (SOLACE). ERCOT does not receive funding from this project, only providing advice from the industry perspective.