Resourcing the Future
## Giving Possibilities

### Scholarship & Research

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<thead>
<tr>
<th>Number</th>
<th>Program</th>
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<tbody>
<tr>
<td>08</td>
<td>Endowed Faculty Chairs</td>
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</tr>
<tr>
<td>09</td>
<td>Faculty Fellows</td>
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<tr>
<td>10</td>
<td>Senior Fellow Residencies</td>
<td>$200,000 term $1 million endowment</td>
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<tr>
<td>11</td>
<td>Post-Doctoral Research Fellows</td>
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<tr>
<td>12</td>
<td>Visiting Scholars</td>
<td>$250,000 term</td>
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### Awards & Public Programs

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<th>Number</th>
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<tr>
<td>16</td>
<td>Carnot Prize for Distinguished Contributions to Energy Policy</td>
<td>$350,000 term $1.5 million endowment</td>
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<tr>
<td>17</td>
<td>Public Lecture Series</td>
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<td>18</td>
<td>Kleinman Center Podcasts</td>
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<td>19</td>
<td>KLI Lecture Series</td>
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<tr>
<td>20</td>
<td>Kleinman Center Podcasts</td>
<td>$300,000 term</td>
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<tr>
<td>21</td>
<td>The Energy Policy &amp; Design Studio</td>
<td>$625,000 term $2.5 million endowment</td>
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<tr>
<td>22</td>
<td>Student Internships</td>
<td>$75,000 term $300,000 endowment</td>
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<tr>
<td>23</td>
<td>Kleinman Center Podcasts</td>
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<td>30</td>
<td>Student Internships</td>
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### The Student Experience

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### Named Spaces

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<th>Number</th>
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<tr>
<td>27</td>
<td>Energy Forum</td>
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<tr>
<td>28</td>
<td>Upper Tower &amp; Staircase</td>
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</tr>
<tr>
<td>29</td>
<td>Classroom</td>
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<tr>
<td>30</td>
<td>Visiting Scholar’s Office</td>
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<tr>
<td>30</td>
<td>Senior Fellow’s Office</td>
<td>$150,000</td>
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CONSIDER THE POSSIBILITIES

What if the electric grid could be hardened against potential cyber-attacks? Or solar power could run water purification systems in remote locations? What if the latent energy in the batteries of stationary electric vehicles was harnessed for other uses? Or financial incentives significantly influenced consumer behavior toward energy use?

While these ideas may sound far-fetched, researchers have developed cost-effective technologies for these and dozens of other energy issues. The real challenge is implementation, and how policy and politics advance or impede it.

This challenge of implementation shapes the research agenda of The Kleinman Center for Energy Policy at the University of Pennsylvania. Founded in 2014, the Center provides opportunities for students, researchers, and energy leaders to debate diverse viewpoints, explore options, and develop agendas for decision and action. Housed on the upper floors of Penn’s historic Fisher Fine Arts Library, the Center enjoys spectacular world-class teaching and event space, offices for visiting scholars and thought leaders, and research facilities for Center staff and students—right in the heart of campus.

In a few short years, the Kleinman Center has earned a reputation for promoting fresh thinking about how best to power the world. We invite you to expand the Center’s critically important work by supporting the initiatives described in the pages that follow.
SCHOLARSHIP & RESEARCH
**ENDOWED FACULTY CHAIRS**

**The Opportunity:**
$3 million will endow and name a Kleinman Center Faculty Chair.

**The Impact:**
Distinguished faculty maximize the impact and visibility of Penn’s contributions to energy policy. As leaders in their respective fields, they make it possible for the Center to attract and retain the best students, conduct and deploy the most impactful research, and engage and educate key policymakers.

Establishing named professorships at the Kleinman Center will make it possible to recruit and support outstanding academics whose expertise bridges diverse disciplines such as design, urban planning, economics, finance, law, the social sciences, the humanities, medicine, and communications. Endowing these positions will provide the stable funding needed to build the core energy policy faculty who connect and amplify Penn’s strengths across the spectrum of energy-related fields.

**FACULTY FELLOWS**

**The Opportunity:**
A $250,000 term gift will support one Faculty Fellow for five years.

$1 million will endow and name a Kleinman Center Faculty Fellow.

**The Impact:**
Faculty Fellows at the Kleinman Center are key university colleagues who work on research projects, participate in Center events, moderate Center and University-wide panels, and record podcasts, while contributing to the direction and development of the Center.

This position enables the Kleinman Center to bring in eminent faculty from other Penn schools to offer their specialized expertise. For example, the Center’s first Faculty Fellow, Dr. Arthur Van Benthem, Assistant Professor in the Business Economics and Public Policy Department at the Wharton School, was appointed in 2016. He has already created Penn’s only graduate seminar on energy policy research, and has pursued work on the unintended consequences of environmental legislation and the economic efficiencies of energy policies.
**SENIOR FELLOW RESIDENCIES (SIX NEEDED)**

**The Opportunity:**
A term gift of $200,000 will support one Senior Fellow for five years.

**The Impact:**
Senior Fellows contribute to the life of the Center by creating connections to policy-relevant, off-campus work. In collaboration with Center leaders, each Fellow designs a portfolio of work that often involves teaching and lecturing, writing, and developing projects that help apply Penn’s academic strengths to real-world problems. They attend monthly meetings with Center staff, and are frequently on campus to meet with students and faculty, attend and participate in events, and advise on the Center’s research agenda.

The current Senior Fellows come from industry, federal and state-level government, nonprofit organizations, and academia. Examples include a partner in the energy practice at the law firm Morgan, Lewis & Bockius; a former senior advisor at the U.S. Department of Energy; and the former Secretary of both the Pennsylvania Department of Environmental Protection and the Pennsylvania Department of Conservation and Natural Resources.

**POST-DOCTORAL RESEARCH FELLOWS (TWO NEEDED)**

**The Opportunity:**
A term gift of $500,000 will support one position for five years.

$2 million will endow and name a Post-Doctoral Research Fellow.

**The Impact:**
Post-Doctoral Research Fellows will make essential contributions to the Kleinman Center’s research portfolio, and will increase the Center’s visibility in the academic community. Fellows will add to the Center’s output of published research, especially in refereed journals, and will strengthen the Center’s connections with other universities through research collaborations.

In addition to continuing work begun during their doctoral studies, Kleinman Post-Doctoral Research Fellows will support the Center’s signature research projects structured around applicable and policy-relevant themes. For example, the current Comparative Pathways project, which analyzes and compares the local net benefits of several future scenarios for regional energy, is one project that would benefit from the participation of a Post-Doctoral Research Fellow in economics.
The Kleinman Center brings together eminent scholars and diverse stakeholders in a collegial and productive environment—just the kind of setting that fosters tangible progress on complex challenges like energy policy.”

—Amy Gutmann
President, University of Pennsylvania

VISITING SCHOLARS (SIX NEEDED)

The Opportunity:
A term gift of $250,000 will support the Visiting Scholars Program for five years.

The Impact:
The Visiting Scholars program was designed to support collaboration between Penn faculty and those from other research universities. The program brings distinguished scholars to Penn for short residencies (one or two weeks) to further an already-established research agenda with a Penn collaborator, or to explore developing a new research agenda with potential Penn co-authors. While in residence, Visiting Scholars meet with faculty and graduate students, give a public lecture in the Energy Forum, record a podcast, and write a policy digest that connects their current research with energy policy application. Often, these scholars remain active friends of the Center.

The Center hosts 3–4 Visiting Scholars per term. Past Scholars have included: Dr. Joseph Aldy, Associate Professor of Public Policy at the John F. Kennedy School of Government at Harvard University; Dr. Roberto Schaeffer (G’90), Professor of Energy Economics at the Federal University of Rio de Janeiro; and Christian Gollier, Professor of Economics at the Toulouse School of Economics.
AWARDS & PUBLIC PROGRAMS
The Carnot Prize for Distinguished Contributions to Energy Policy

**The Opportunity:**
A term gift of $350,000 will support the prize for five years.

**The Impact:**
The Kleinman Center’s annual Carnot Prize, launched in 2015, recognizes distinguished contributions to energy policy through scholarship and practice. The prize is named for Sadi Carnot, who, in 1824, published *Reflections on the Motive Power of Fire*, the manuscript that became the basis for the second law of thermodynamics and that predicted that the steam engine would produce a great revolution in human dynamics.

The Carnot Prize was first presented by former Pennsylvania Governor Rendell to Dr. Daniel Yergin, prolific author and vice chairman of IHS Cambridge Energy Research Associates. The 2016 prize, presented by Penn’s President Amy Gutmann, went to Dr. Fatih Birol, executive director of the International Energy Agency (IEA). The 2017 Prize will be awarded to the Hon. Gina McCarthy, former administrator of the United States Department of Environmental Protection and champion of the Clean Power Plan.

The Carnot Prize carries a $25,000 cash award. When possible, the Center develops additional student and research opportunities around the prize and recipient. For example, in 2016, the Center named a fellowship in Dr. Birol’s honor at the IEA, which enabled a Penn student to spend a summer working for the agency’s chief economist.

The award ceremony is high-profile and invitation-only, and is often accompanied by a media event, interview with Knowledge@Wharton, podcast recording, student-centered program, and private meetings with University leadership.

The Kleinman Center runs an extensive lecture series during the academic year, curating up to six public lectures each semester. With topics such as “Pricing Carbon: Lessons from Canada” and “The Business Case for Sustainable Hydraulic Fracturing,” formats include panel discussion, moderated Q&A, and single lecturers. Past presenters have included academics, industry leaders, and civil servants such as Marvin Odum, former president of Shell Oil Company; Per Krusell, professor of Economics, Stockholm University; and Gitane de Silva, Alberta’s senior representative to the United States, Canadian Embassy.

The Center’s Energy Forum, which comfortably seats 120+ people, is often at capacity for these lectures, drawing academics and students from Penn Engineering, Wharton, Penn Arts and Sciences, Penn Law, and PennDesign, in addition to a growing number of external practitioners and partners. The events are publicized to the media and on the Center’s social media accounts, and listed in its newsletter. The lectures can be live-streamed, and are always recorded and available on the Center’s website.
“AS A NATION, WE NEED A CLEARLY ARTICULATED ENERGY POLICY THAT PROMOTES ECONOMIC GROWTH, ENERGY OPTIMIZATION, AND TECHNOLOGICAL DEVELOPMENT, ALL IN THE CONTEXT OF A SENSIBLE ENVIRONMENTAL BACKDROP.”

—SCOTT KLEINMAN
UNIVERSITY OF PENNSYLVANIA, CLASS OF ‘94
THE STUDENT EXPERIENCE
THE ENERGY POLICY & DESIGN STUDIO

The Opportunity:
A term gift of $625,000 will support the Energy Policy & Design Studio for five years.

The Impact:
Studio instruction is the core pedagogy in the School of Design. A studio jointly sponsored by PennDesign and the Kleinman Center would provide a valuable perspective on energy to some of the influential designers and planners of the future during their education at the Center’s home school.

An energy studio in partnership with PennDesign’s City Planning and/or Landscape Architecture departments would create a new venue for research into significant energy policy challenges. For example, the studio might explore how to site energy infrastructure such as transmission capacity in the landscape, or how to organize community-scale energy assets such as shared solar and storage.

STUDENT INTERNSHIPS

The Opportunity:
A term gift of $75,000 will support one student internship for five years.

The Impact:
Internships are where classroom study meets the real world during unique, short-term work experiences. Providing stipends makes internships possible for students who might otherwise be obligated to find paid employment during the summer. Each year, the Kleinman Center cultivates summer internship opportunities exclusively for Penn undergraduate and graduate students with key public and nonprofit sector organizations, including the U.S. Department of Agriculture; Rural Utilities Service; U.S. Green Building Council; Pennsylvania Environmental Council; City of Philadelphia Energy Office; and the Philadelphia Energy Authority.

The Center provides internship stipends of up to $15,000, including funding for students who independently arrange non-paid internships at energy policy-related non-governmental (NGO) and governmental organizations.
NAMED SPACES
THE KLEINMAN CENTER OCCUPIES THE UPPER FLOORS OF ONE OF PENN’S MOST ICONIC BUILDINGS, THE FISHER FINE ARTS LIBRARY. THE BUILDING, DESIGNED BY FRANK FURNESS AS THE UNIVERSITY’S FIRST LIBRARY, WAS COMPLETED IN 1891. ARCHITECTURAL HISTORIAN GEORGE E. THOMAS ON FISHER’S ARCHITECTURAL SIGNIFICANCE:

“In 1888, when most American architects were turning to marble classicism of the granite Richardson’s Romanesque, Furness designed the University of Pennsylvania’s library in fiery red brick. Though there are hints of history in its gargoyles, Penn’s new library was a conflation of towers, chimneys, skylighted rooms and foundry-like clerestoried halls whose closest sources were the factories of Philadelphia… This quality animates Furness’s best buildings such as the B&O Station and the University Library. They have the raw impact of giant machines even as they transcended their materials to become a summa of the industrial age.”

When Penn’s main library moved into a new building in 1962, the Furness building became home to the Fine Arts Library. In 1985, it was listed in the National Register of Historic Places. The Kleinman Center is privileged to steward this historic space by continuing the tradition of welcoming great thought leaders.

ENERGY FORUM

The Opportunity: A gift of $1 million will name the Energy Forum.

The Impact:
Housed on the fourth floor of the Fisher Fine Arts Library, the Kleinman Energy Forum is a truly iconic Penn space. Originally the home of the University Museum, the Forum has been the site of an array of architectural studios, including that of the distinguished and beloved architect, Louis I. Kahn. Over the years, many classes have been held there, including Ian McHarg’s Man and the Environment, Penn’s most popular course in the 1960s and 1970s.

Today, the Kleinman Center continues the tradition of bringing intellectual leaders to the Forum to address the great challenges of our time. The space holds over 50 high-level public events each year, including the Center’s public lecture series, the Carnot Prize award ceremony, and our quarterly regional roundtable event. In addition, the Forum has provided a meeting and celebration space for University Trustees, School Overseers, and—in the great tradition of the room—PennDesign studio reviews.

The Forum features state-of-the-art technology that enables the Center to record and livestream events around the world.
### Upper Tower & Staircase

**The Opportunity:**
A gift of $500,000 will name the Staircase and Upper Tower Renovation Project.

**The Impact:**
The upper landing and staircase of the Fisher Fine Arts Library provide the magnificent entrance to both the Kleinman Center’s office suite and the Energy Forum. The area is already used as a reception space for the Center’s larger events. However, the Kleinman Center’s robust programming and existing staff are already pushing the limits of the Center’s available space. With the proposed expansion of the Senior Fellows program, and the hiring of additional post-doctoral researchers and research analysts, the Center requires additional space.

This gift will renovate currently unused space in the tower at the very top of the building’s signature spiral staircase to provide much-needed office and meeting space contiguous with the Center’s current offices.

### Classroom

**The Opportunity:**
A gift of $250,000 will name the third floor classroom.

**The Impact:**
Situated on the third floor of the Fisher Fine Arts Library, this 24-seat classroom is a central space for meetings and events. All Kleinman Center courses and seminars—including the popular and over-subscribed Introduction to Energy Management and Policy class, and the Energy Economics and Finance seminar—meet in the classroom. The space is regularly programmed with events including faculty luncheons, working groups, and the Center’s advisory board meetings. When not scheduled as an event space, the classroom acts as an open meeting place for visiting scholars, senior fellows, research assistants, and Kleinman Center staff.
### VISITING SCHOLAR’S OFFICE

**The Opportunity:**
A gift of $150,000 will name the Visiting Scholar’s Office.

**The Impact:**
The Visiting Scholar’s office enjoys a premiere location on the fourth floor of the Fisher Fine Arts Library, overlooking College Green. This private space is used as a home base for guests and visiting scholars who spend time in residence at the Center. When not occupied by a visiting scholar or guest, the office is frequently used as a meeting space. The Center has used this special room to welcome ambassadors from the State Department, Eisenhower Fellows, industry leaders, and potential Penn faculty recruits.

### SENIOR FELLOW’S OFFICE

**The Opportunity:**
A gift of $150,000 will name the Senior Fellow’s Office.

**The Impact:**
The Senior Fellow’s office—which functions as the Center’s Energy Policy Research Lab—is located on the third floor of the Fisher Fine Arts Library, and serves as a joint office and meeting space for Senior Fellows. The room provides space for the Fellows and their Kleinman Center research assistants to pursue policy development and research projects.

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“I’M VERY IMPRESSED BY THE THOUGHT, ENERGY, DYNAMISM, AND PERSPECTIVE THE KLEINMAN CENTER BRINGS TO BEAR. SCOTT KLEINMAN’S GENEROSITY HAS MADE POSSIBLE A NEW CENTER THAT CAN REALLY HAVE IMPACT.”

—Daniel Yergin, Ph.D.
2015 Carnot Prize Recipient