

# State Energy Research Center

TECHNOLOGY TO KEEP NORTH DAKOTA COMPETITIVE



The development of a State Energy Research Center (SERC) at the University of North Dakota Energy & Environmental Research Center (EERC) is an investment in North Dakota's future.

If you've ever flipped a light switch or started a car, chances are the EERC has worked on technology to improve it. The engineers and scientists at the EERC are dedicated to advancing technologies for the state, the nation, and the world.

When it comes to tangible benefits to North Dakota, the EERC delivers. We provide the state – and the energy industry within it – practical solutions to critical challenges. From flaring reduction in the Bakken, to pipeline safety, to efficient lignite use, to increasing oil recovery while decreasing environmental impacts, the EERC team supports North Dakota in its position as a top energy producer.

**We can do more.** Our vision for SERC would provide the platform for developing impactful technologies right here at home and will be driven by North Dakota's future needs, challenges, and opportunities. SERC will focus on emerging topics critical to the state's energy industry and environmental challenges. The world is changing quickly, and with those changes come monumental challenges. North Dakota has the opportunity to pioneer energy research that addresses those challenges.



**“The world is changing quickly, and with those changes come monumental challenges. North Dakota has the opportunity to pioneer energy research that addresses those challenges.”**



Establishing SERC at the EERC ensures North Dakota's energy resources and products remain accessible, affordable, environmentally responsible, and clearly understood through education and outreach. SERC aims to focus on precommercial research to complement – not duplicate – existing state programs. Commercial deployments and demonstrations of mercury control at North Dakota power plants, enhanced oil recovery in the Bakken, and carbon capture from lignite coal-fired facilities were all made possible because of research done at the EERC. These success stories would not have happened here in North Dakota without this early-stage funding. This type of research puts North Dakota on the forefront of innovation.

## FREQUENTLY ASKED QUESTIONS

**Q: Doesn't the EERC already receive research funding from the state?**

**A:** We are fortunate to have project-specific funding from our state partners and research programs as well as commercial clients. However, the nature of our funding sources does not allow for groundbreaking research that investigates and creates new and emerging technologies.

**Q: How would the research done through SERC differ from current EERC research?**

**A:** Our current research projects focus on client-directed needs. Research done through SERC would allow for investigation of new or precommercial technologies that complement our applied research and better position North Dakota to be on the forefront of developing effective new solutions.

**Q: How will SERC help keep North Dakota competitive?**

**A:** Supporting early-stage technology development ensures that our state's resources are used in a clean, efficient,

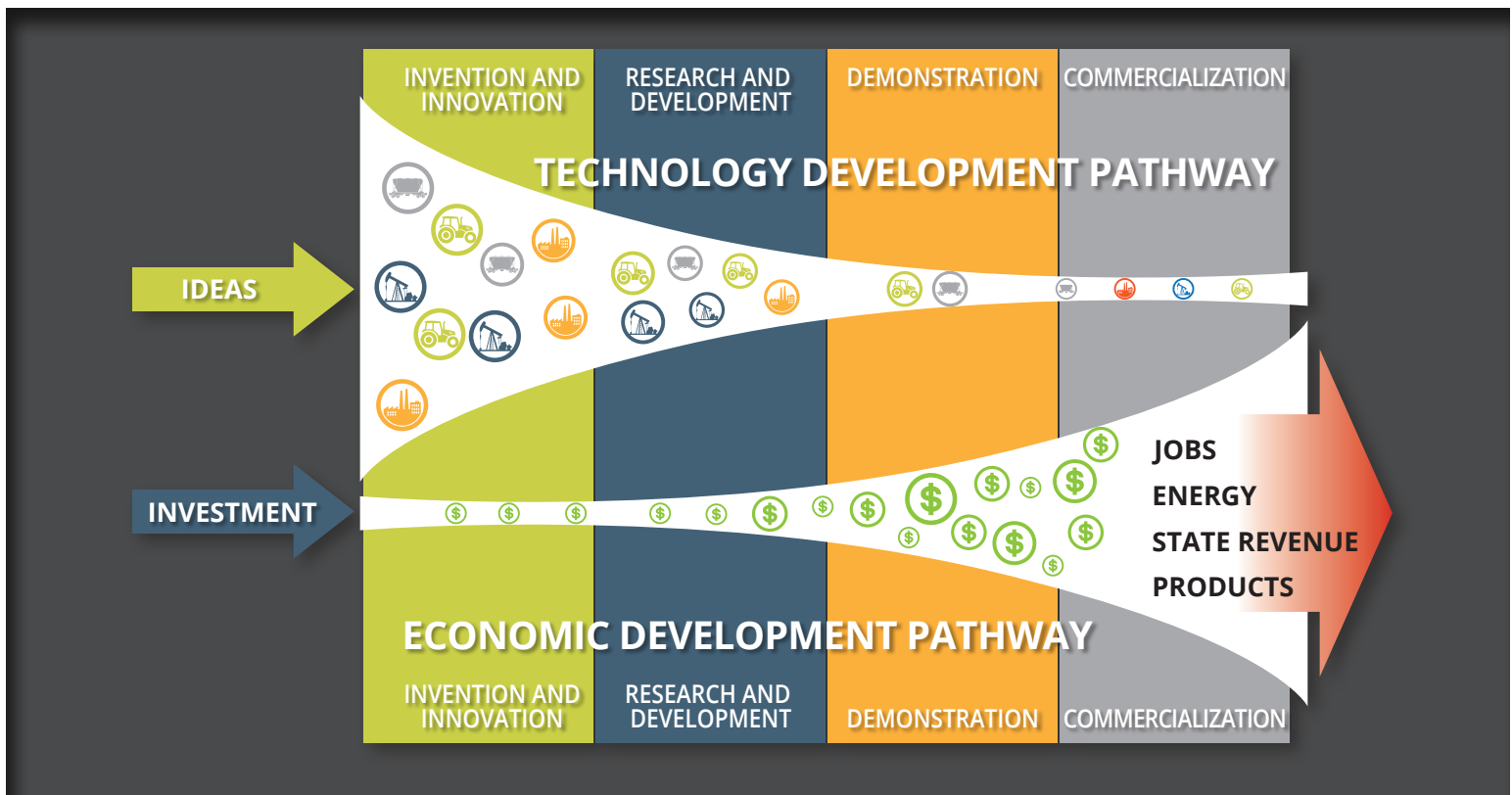
and economical manner and prepares us for 5, 10, and even 15 years into the future.

**Q: Will SERC help keep our economy strong in North Dakota?**

**A:** Supporting our rural areas through the expansion of technologies that benefit both agriculture and energy resources helps tie our two biggest industries together. Expanding our energy workforce, developing value-added energy resource technologies, and educating the citizens of our state ensure that North Dakota's energy sector is a strong and vital part of our economy.

**Q: How will SERC help protect North Dakota's energy economy from regional, national, and global issues that tear it down?**

**A:** SERC will serve as a platform for access to energy experts and timely scientific studies that provide objective facts to address issues through proactive education and outreach.



For More Information, Contact:

**Thomas A. Erickson**

CEO

(701) 777-5153, [terickson@undeerc.org](mailto:terickson@undeerc.org)

**Energy & Environmental Research Center**

University of North Dakota

15 North 23rd Street, Stop 9018

Grand Forks, ND 58202-9018

[www.undeerc.org](http://www.undeerc.org)

