

# NORTH DAKOTA'S ENERGY FUTURE!



**North Dakota** has a strong team of industry partners, state organizations, and universities dedicated to a more prosperous, cleaner, and brighter energy future. North Dakota is the role model for the world. The Energy & Environmental Research Center (EERC) is working with regional partners to advance technology to support an all-of-the-above approach to energy production, developing more synergies between energy and agriculture and a stronger, value-added approach to resources. Technology development is the answer to achieve the following goals.

## **GOAL 1 – Reach at Least 2 million barrels of Oil Production per day**

New technologies for advanced reservoir surveillance, characterization, and enhanced recovery will allow us to quadruple Bakken recovery factors and develop new opportunities for North Dakota's conventional oil and gas resources.



## **GOAL 2 – Capitalize on Agricultural and Energy Synergies**

North Dakota has an amazing abundance of both agricultural and energy resources. Advancing technologies for biofuels, boosting ethanol values, and developing greenhouse and fertilizer products from energy production will allow the agricultural and energy sectors of our economy to become even stronger.



## **GOAL 3 – Maximize Use of Natural Gas**

Advancements will allow us to more efficiently use produced gas; develop value-added products like petrochemicals and fertilizers; and expand infrastructure, storage, and export opportunities.

## **GOAL 4 – Eliminate Pipeline Leaks**

Pipelines are a critical part of our energy infrastructure and will become even more important in the future as we achieve our goals. Assessing pipeline and public safety and developing technologies that will address and prevent pipeline leaks are key to our future.



## GOAL 5 – Enhance Reliability and Energy Export Opportunities

The future will require an even more sophisticated electrical grid, energy storage system, and increased pipeline infrastructure. We need to use carbon capture and storage to enhance oil recovery and reduce the carbon footprint of our energy products while boosting our energy exports. An all-of-the-above approach that uses our abundant fossil, biomass, wind, and solar resources is key to a viable and prosperous future.

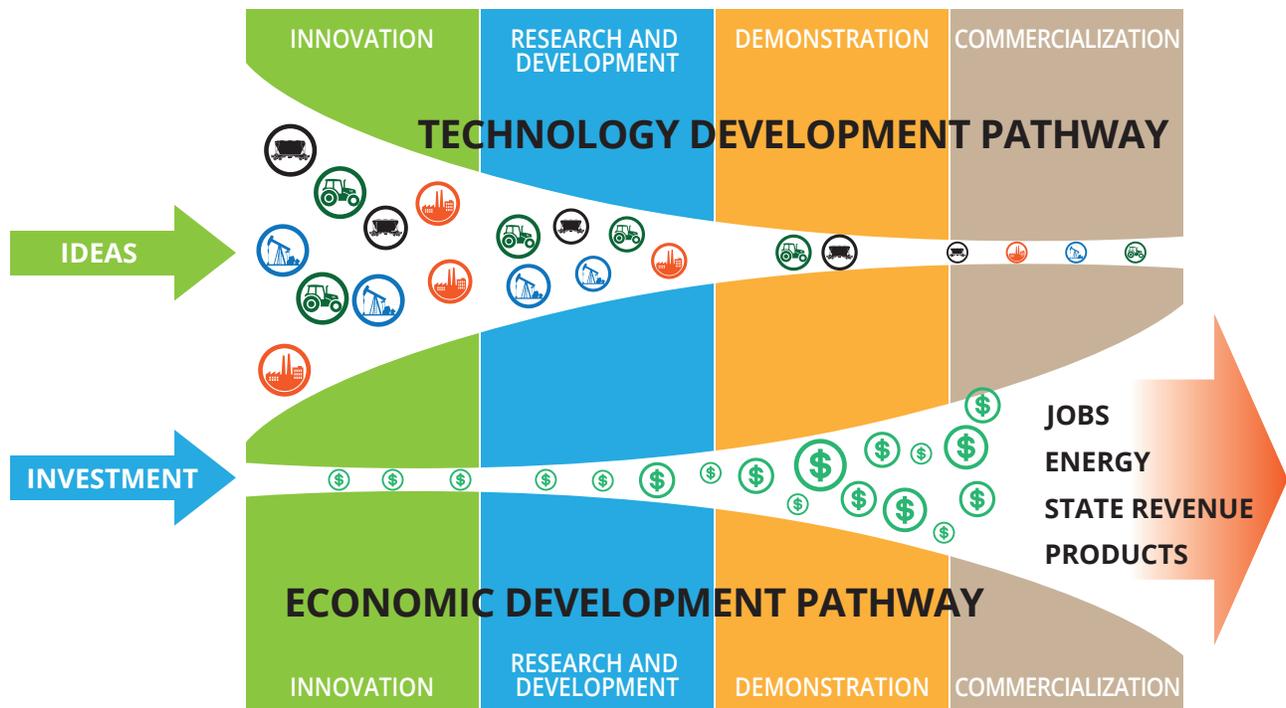
## GOAL 6 – Take Full Advantage of North Dakota’s 25 billion tons of Recoverable Lignite

Next-generation coal-fired power plants, combined heat and power facilities, and facilities that will produce rare-earth elements, activated carbon, carbon fibers, and other high-value products from lignite will allow us to better utilize our world-class resource.



## GOAL 7 – Inform the World on Energy and Environmental Topics

In today’s world, we need more than financing and permits to develop energy production, processing, and transportation infrastructure. We need social license as well. Our society demands buy-in to projects and to understand the costs and benefits of any development. We must develop the outreach and education tools that will better inform the public.



### For More Information, Contact:

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