

# UNIVERSITY OF ALBERTA – FUTURE ENERGY SYSTEMS COMMUNITIES AND ABORIGINAL

**\$1.6M** in research funding to 2023

**5** active projects

**7** Principal Investigators and Co-Investigators

**12** students & post-doctoral fellows

## THE FRONT LINES OF ENERGY SYSTEMS CHANGE

Communities are the interface between human societies and the environment. Large or small, urban or rural, life within these collectives has often been defined by access to energy resources, and the need to help define the transition to energy systems of the future. To better understand the impact of future energy systems on our communities, we must study the metrics for success, risks, opportunities, and level of preparedness in our existing society. We must understand the implications of different forms of energy project ownership, and seek the perspectives of Aboriginal peoples as the energy traditions which accompanied Europeans colonization undergo systematic change.

## CURRENT RESEARCH PROJECTS

Energy, housing and homelessness nexus in northern Indigenous communities in Canada

Principal Investigator: Sandeep Agrawal

Existing capacity and best practices for the integration of future energy systems into Canadian cities and First Nations Communities

Principal Investigator: Sandeep Agrawal

Measuring the Costs and Benefits of Energy Transitions

Principal Investigator: John Parkins

Moving Forward by Overcoming the Legacies of Past Energy Systems Project

Principal Investigator: Joel Gehman

Social Implications of Energy Development

Principal Investigator: Bruno Wichmann

## RECENT PUBLICATIONS

Interactive map of Canadian renewable energy projects

Lead Authors: Elizabeth Dowdell, Sonak Patel

Using BP Neural Networks to Prioritize Risk Management Approaches for China's Unconventional Shale Gas Industry

Lead Author: Cong Dong

Community energy in Western Canada: Insights from case studies on small-scale renewable energy development

Lead Author: Andrea Miller

## RECENT NEWS STORIES

- Community energy big renewable opportunity for rural Canada
- Renewable energy projects must benefit the people who live next to them
- We can't afford to forget the north

For the latest information:

[futureenergysystems.ca/communities](http://futureenergysystems.ca/communities)



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