



UNIVERSITY OF  
CALGARY



Institute for Sustainable  
ENERGY, ENVIRONMENT  
AND ECONOMY

# Inter-American National Academies of Science (IANAS) – *Energy Program Workshop* –

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# Energy in Canada

## Canada:

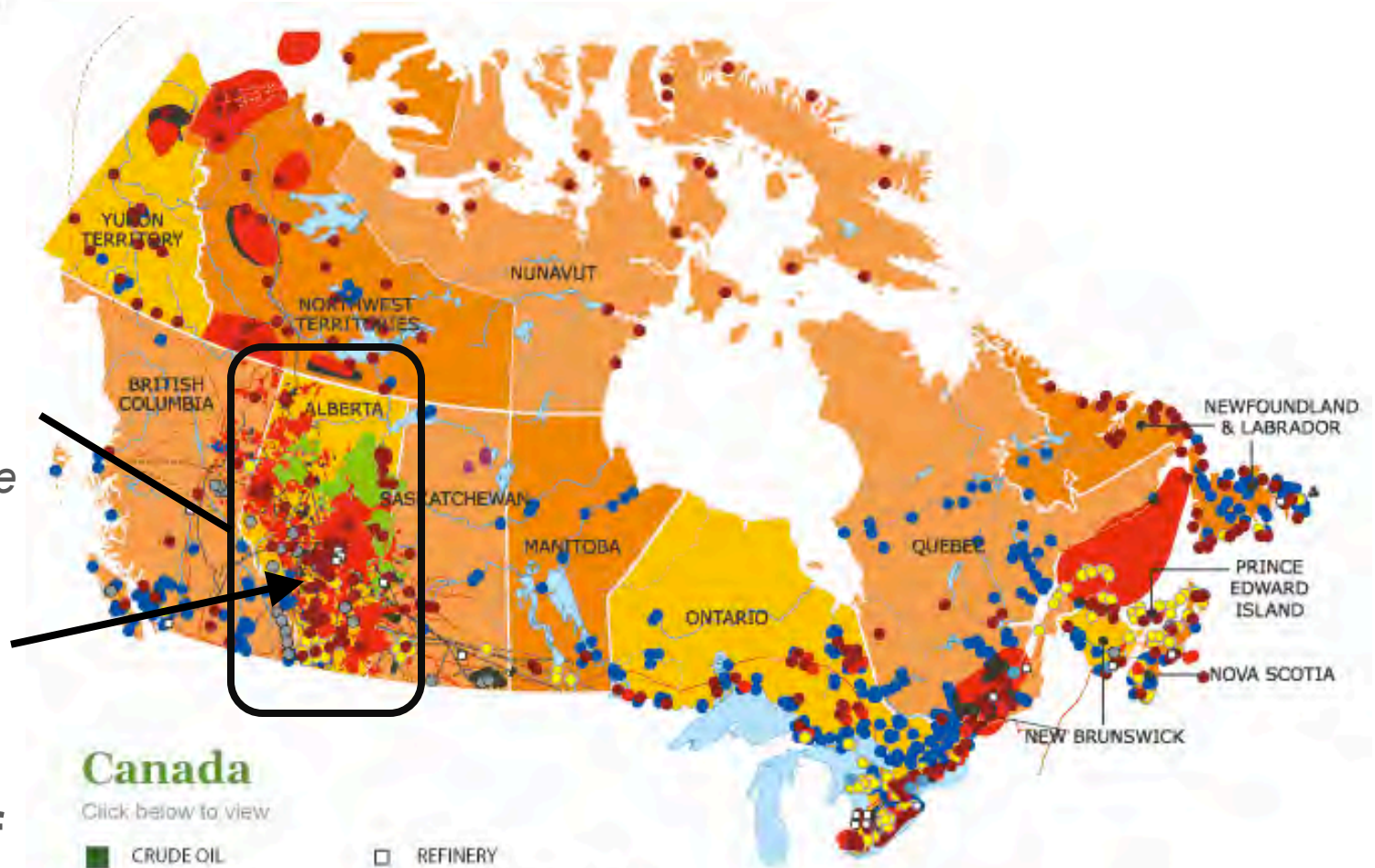
- Net energy exporter (Oil, gas, uranium, hydropower)

## Alberta:

- Canada's energy province

## Calgary:

- Canada's energy capital;
- 300+ oil & gas companies



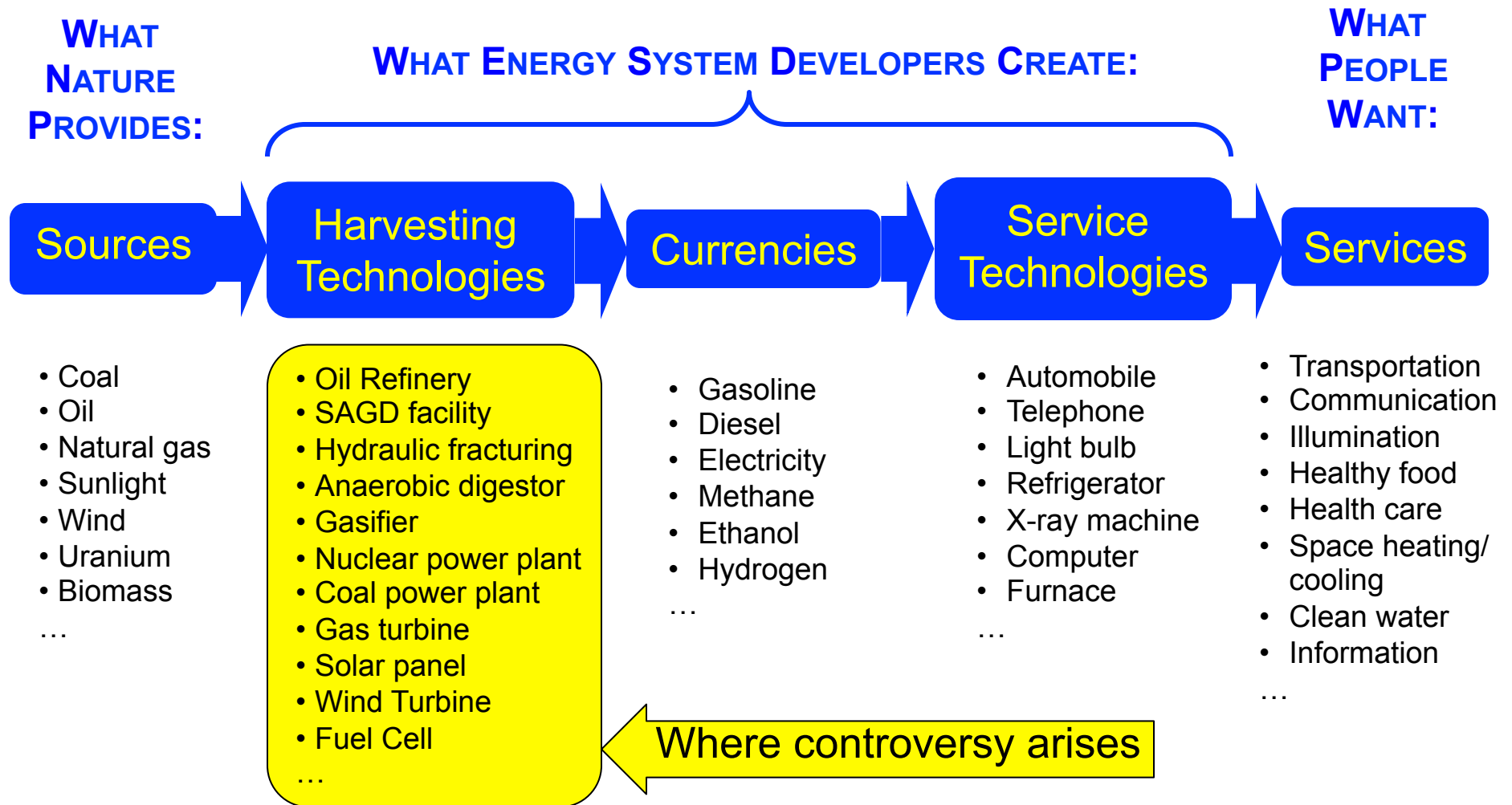
## University of Calgary:

- Energy & the Environment: an academic priority

## Inst. for Sustainable Energy, Environment & Economy:

- Focused on finding energy – environment solutions

# Increasing Interest in an Energy System Approach







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# Major Controversy over Energy Harvesting Technologies



# We must ‘elevate the conversation’ regarding technology & policy choices for energy system transformation...

## **We not only need to develop new Energy Technologies, but we need a better understanding of:**

- ✓ the costs, benefits and tradeoffs associated with technology and policy options;
- ✓ The ‘system level’ implications of deploying these technologies;
- ✓ How to inform the decision making process

*“Saying ‘no’ to one technology means saying ‘yes’ to something else.”*

# Canadian Energy Strategy

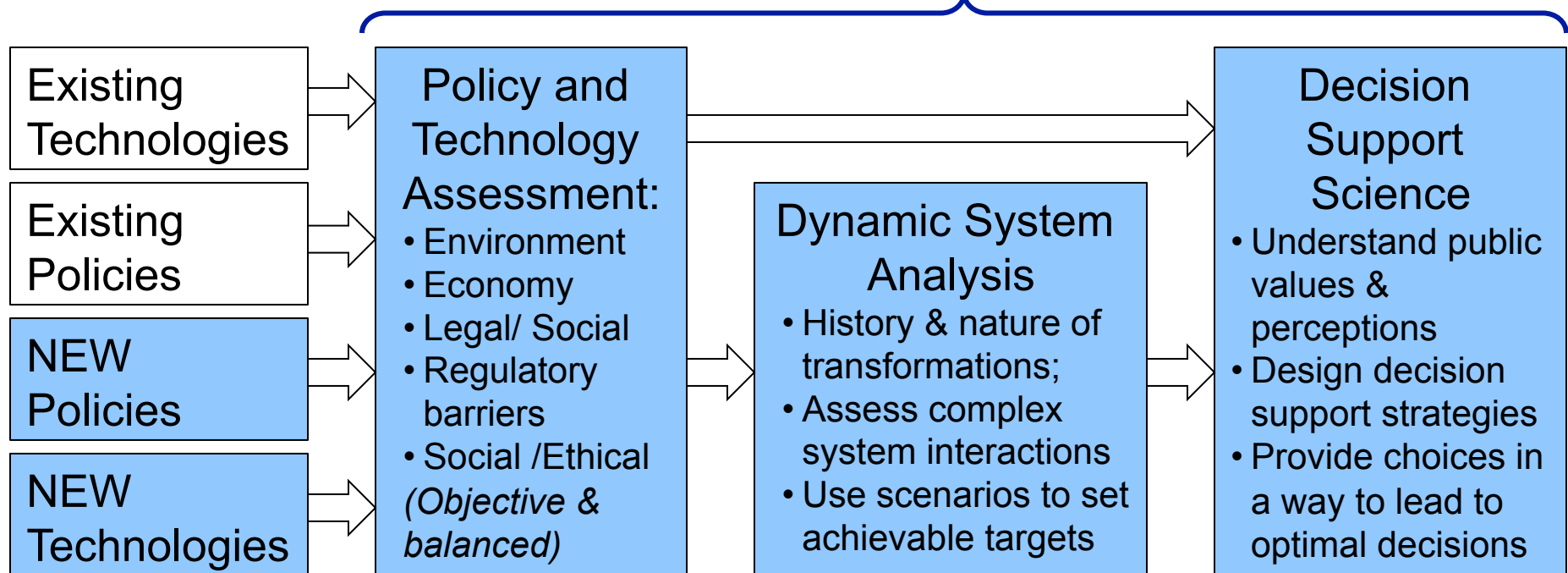
- ✓ The provinces own the energy resources;
- ✓ Little agreement on how to develop them for the benefit of all;
- ✓ Lost opportunities

Currently a major push by provinces and industry to develop a Canada-wide energy strategy



# Energy Systems Analysis

ESA



ISEEE's focus

1. Oil
2. Gas
3. Electricity (incl. renewable, CCS)
4. Low C Communities
5. Energy Poverty

e.g. Life Cycle Assessments

e.g. Energy System Models

