# School-based Energy Education in Alberta

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**Inside Education Society of Alberta**
**www.insideeducation.ca**

***kids care!***

# Inside Education

- Charitable non-profit education society
- 30 years experience delivering award winning programs
- Multiple Perspectives Approach
- K-12 teachers & students

# *Supporting Teachers, Inspiring Students*

## *We Believe …*

- *It is essential to consider multiple perspectives*
- *First hand experiences are invaluable*
- *In the power of critical thinking*
- *What we do makes a difference*

# Environment & Natural Resource Education

# Integrated Program Approach

## TOPICS

Climate Change

Alternative Energy

Renewable Energy

Oil Sands

Conventional Oil & Gas

Electricity

Watersheds

Forests & Forestry

Wildlife & Species at Risk

Landscape management

**AND MORE!**

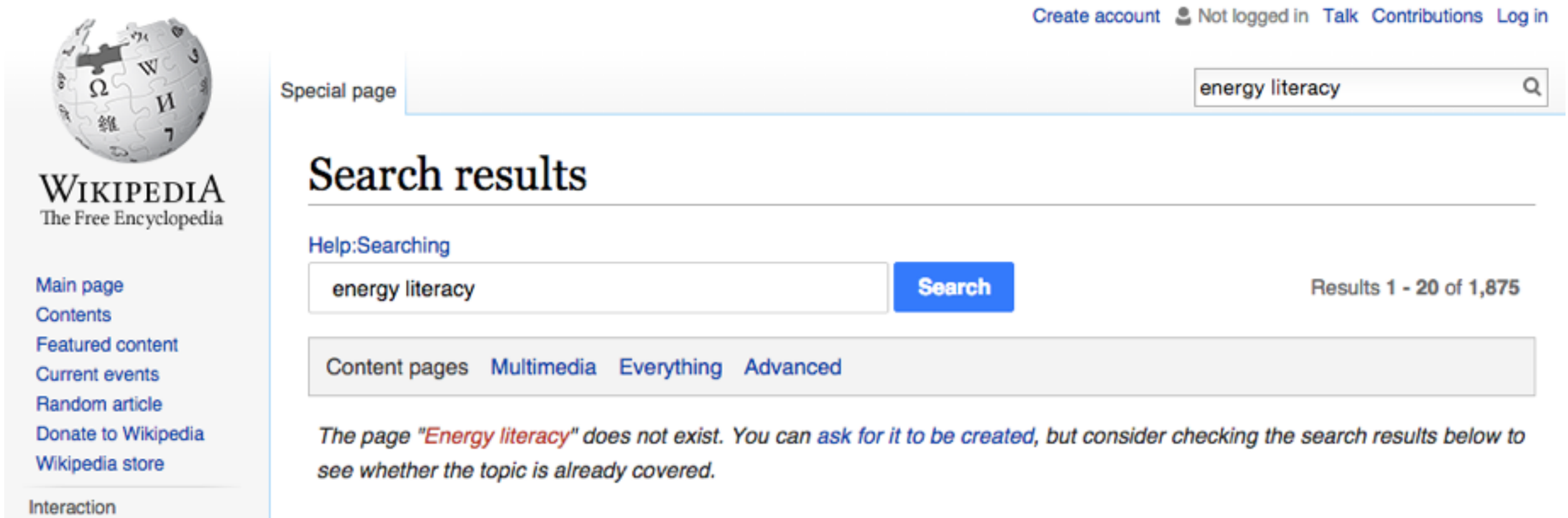
# Q. What is Energy Literacy?

## *Answer…*

A. *The ability to read & write about energy*

B. *A great buzz word we use all the time in different contexts with different people*

C. *I absolutely know but going to search Wikipedia just to clarify…*



# Energy Education

# Goals of Energy Education

- Engage in conversations about energy
- Foster informed decision-making
- Balance environmental, economic, social and culture interests
- Promote life-long stewardship of energy resources & environment

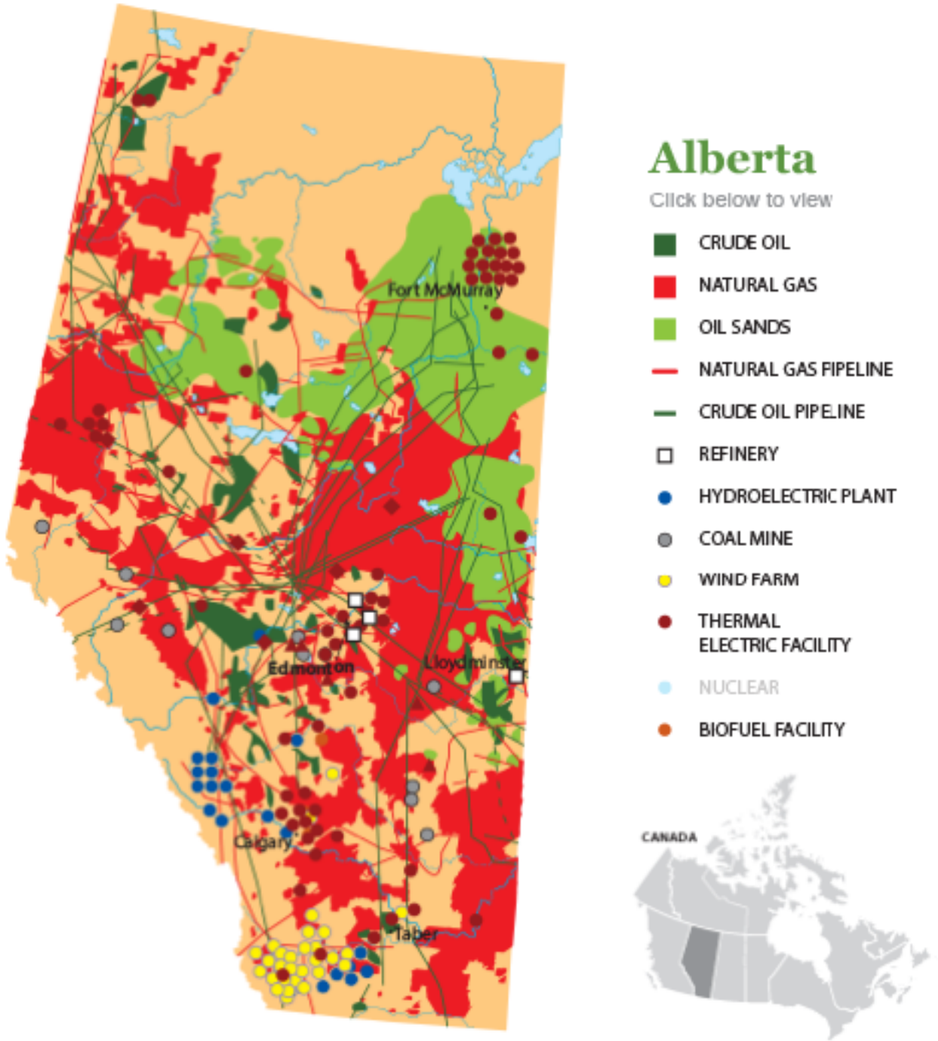
# What do we know about Energy?

## *We know…*

- We need energy
- We use energy
- Alberta has lots of energy development

## *We're interested in…*

- Energy & The Environment
- Energy & The Economy
- Energy & Health



# School Audience

***Thank you for giving our school the chance to study not only the importance of energy to Alberta, but also how important their understanding of it is to Alberta's future"***

*Generate 2013 - Chief Napeweaw, Frog Lake First Nations*

# School-Based Energy Education

## *Things we do well*

- Following electrons, balancing chemical equations, defining terms (global warming)
- Encourage personal action.. sweater wearing etc.

## *…and not so well*

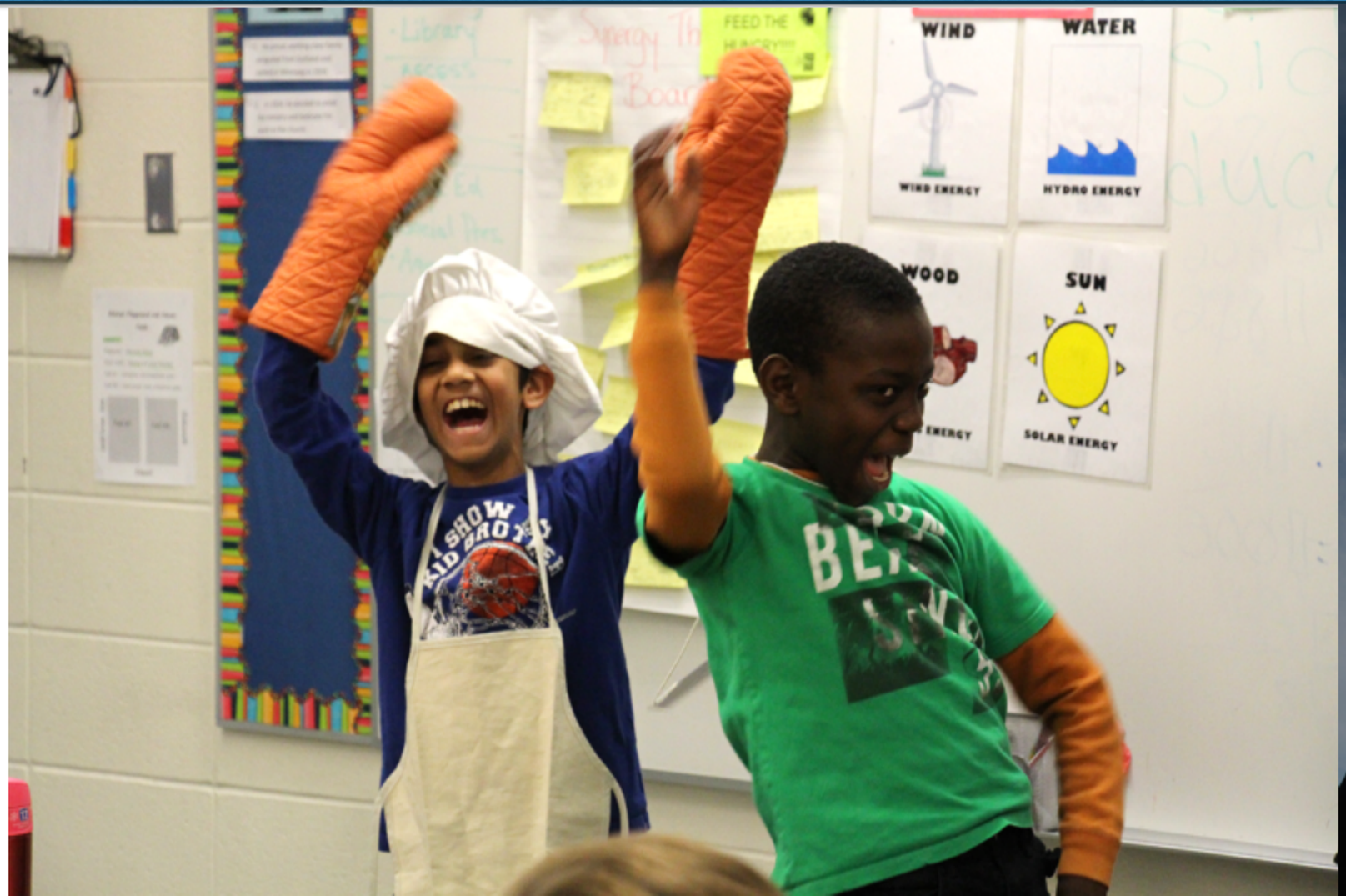
- Explaining the WHY
- Talking about careers (*Esp. for girls)*
- Providing opportunities for young people to share their voice, develop skills, and take action in their communities

# Elements of Great Energy Education

- Create Positive Experiences
- Present Multiple Perspectives
- Encourage Critical Thinking

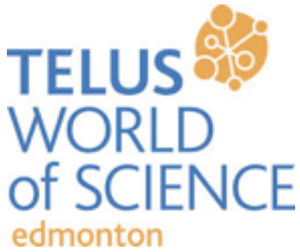
www.energydialogues.ca

# Make it FUN!



# A Different Alberta Advantage

Formerly Science Alberta Foundation



# Collaboration and Participation

- **Alberta Energy Education Initiatives**
  - *GoA, UofC, Green Energy Futures, CN Geographic, Industry, CAPP etc.*
- **Canada's Energy Education Initiatives**
  - *Pollution Probe's Energy Exchange*
- **Alberta Education Curriculum Redesign**
- **Go to your kids school** …*but leave your powerpoint at home*
- **Inside Education's Programs**

# Navigate 2016
## *Youth Water and Environmental Leadership Summit*

navig8

***www.navig8.ca***

I learned that water that was made into electricity was called "Hydro Energy". As well I didn't realize that I was doing Stewardship every day, thank you for letting me know. Now I can tell my sister to stop taking such long showers.

I didn't n Know Solor energy was a Renewable Recource, in fact I didn't think of Solar energy.

Thank you for showing us all about Renew Resources and Non-Renewable Recources.

Yours

# A case for face-to-face

***"And now, I am planning a water literacy project with the team. And next year I will be studying engineering with the goal of become a water resource engineer.***

***And today, today I am writing you this email. Because it is all of you that make this experience possible. And no amount of words, no matter how many I write, will ever be able to express how grateful I am."***

*Maryam, Gr. 12 Student,*
*J. Percy Page High School, Edmonton*

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