

Community RESILIENCE



Climate ACTION

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information session for:

Dehcho First Nations Annual Assembly

(28 June 2016)

(Tthets'ėhk'ė Dėli – Jean Marie River First Nation)

... to begin by acknowledging

the Dene ... People of this Land,

*... the original stewards & custodians
of this territory ...*



I would also like to express my GRATITUDE

... to the Dehcho First Nations Leadership

... for this opportunity

to discuss Community RESILIENCE

through Climate ACTION!

... Mahsi cho!

Dene Principles

This land was created by "the one who provides for all," and we came from this land. We recognize our equality with this land and all living things.

We recognize and respect the natural laws, which regulate the cycles and seasons, the rhythms of the earth, the way of the animals.

No one individual has the right to own the land. As the ones who came from this land, we have a collective right to use the land and its resources to ensure our survival as a people. We also have a collective responsibility to protect the land and resources for our children and grandchildren.

We take only what we need from the land. We honour and give thanks to the spirit of the land and that which we take from the land. We do not waste anything that we take from the land, but share it with who all are in need.

The survival of the whole group (family, community) is more important than the accumulation of individual wealth or status.

Individual rights and freedoms are respected and encouraged within the larger, more important context of a collective identity and collective responsibilities for the survival and well-being of the entire group.

The laws of the Dene, which have been passed down to us by our elders, teach us how to respect the land, ourselves, and each other. They teach us how to live in balance and good health, and how to protect ourselves and our children. We must continue to live by these laws and pass them on to our children.

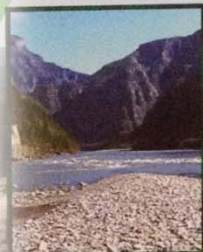
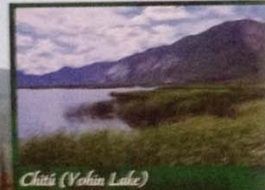
We respect and care for each other, in particular, we honour and provide for our elders, who care for us and passed on gifts of generations past. We also honour and provide for our children who will pass on the ways of the Dene to generations yet to come.

We come from male and female, and we respect and honour the contributions which both men and women make working together for the survival of the people.

We respect and honour our leaders and medicine men and women who share their special skills, experiences, wisdom, and powers for the benefit of our people. We don't expect them to work for us or serve us, but we look to them for guidance and instruction to help us govern ourselves in a good way.

Everyone has the right to be heard and to take part in the decision-making process on discussion of matters which will affect us.

We respect the right of Dene, in family groups, in communities, or in regions, to make decisions, without interference from outside, with respect to matters which affect them alone in their territory.



Community Energy ACTION
... has MUCH in COMMON with
Dene Principles

"... We recognize our
EQUALITY with this **LAND &**
ALL living things."

"We recognize & respect
the **NATURAL LAWS**, ..."

"... We also have a
COLLECTIVE RESPONSIBILITY
to protect the land &
resources for our children
& grandchildren."

"We take only what
we need from the land ...
We do not waste anything"

Introduction to AEA

Partnering is at the core of everything we do!

Mission

*"To promote and facilitate the adoption of **renewable energy** and **energy efficiency** by all members of Northwest Territories (NWT) society."*

Background

Not-for-profit, non-governmental organization (NGO) - established in 1997.

AEA has 6 offices across Denendeh (NWT)

... **Dehcho**, Akaitcho, Sahtu, Inuvik, T'licho, Yellowknife (main)



AEA Dehcho office, Ft. Simpson



AEA main office, Yellowknife

Community RESILIENCE

Adapting & Thriving

in a Changing Climate



in Denendeh



Let's Talk Energy
Engaging ideas for Canada's future

thru Climate ACTION!

Community RESILIENCE

... in a Changing Climate

“Resilience”

... a community's ability to:

Adapt & Thrive

... in Denendeh

Adapting & Thriving

thru Climate ACTION!



in Denendeh

your community your energy your plan

“We take only what we need
from the land ...
We do not waste anything.”

↓
Community Energy &
Emissions Planning

Community Energy Planning

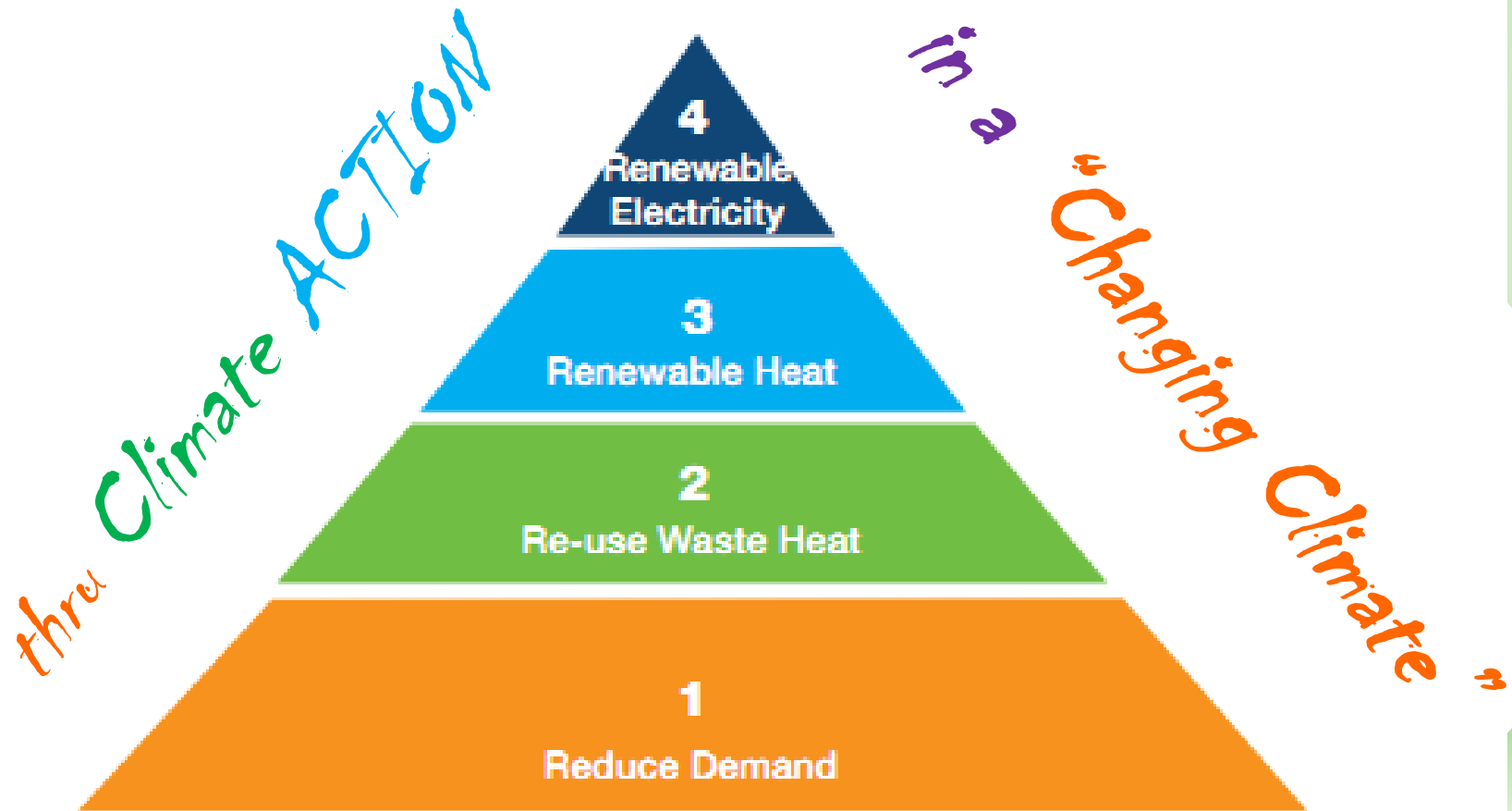
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IMPORTANCE of the 4 R's of Sustainable Community Energy Planning:

- 1. REDUCE your energy use*
- 2. REUSE excess heat*
- 3. RENEWABLE heat*
- 4. RENEWABLE electricity*

Community Energy Planning

4 R's of Sustainable Community Energy Planning



(Community Energy & Emissions Planning Guide - CEA, 2008)

Community Energy Planning



AEA Community Energy Planning

Toolkit

November, 2006

<http://aea.nt.ca/files/download/31>



Community Energy Planning

Dehcho – Community Energy Plans

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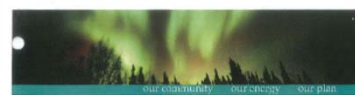
Community Energy Plan

**Smbaa K'e
Dene Band
2010**



Community Energy Plan

**Hamlet of Fort
Providence
2010**



Community Energy Plan

**Fort
Simpson
2010**



Community Energy Plan

**Ka'a'gee Tu
First Nation
2010**



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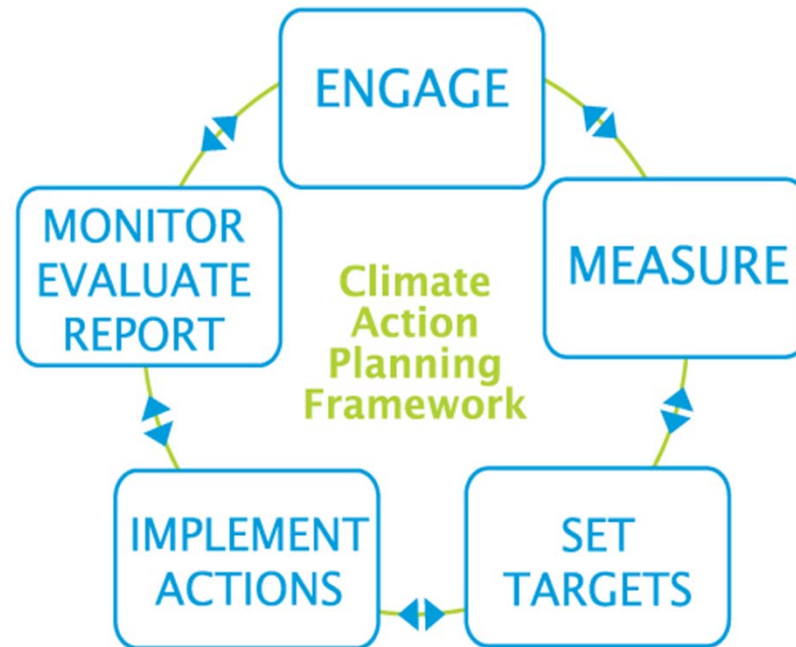
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Community Energy Planning

Community-Wide Climate ACTION Planning

your community your energy your plan



<http://www.toolkit.bc.ca/Community-Wide-Climate-Action-Planning>

Climate ACTION Planning



Community-Wide Climate ACTION Planning

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- ✓ Uses commonly understood planning steps to:
 - ❑ *assess & measure community-wide greenhouse gas (GHG) emissions and energy use; and*
 - ❑ *implement policies & actions to reduce GHG emissions & conserve energy.*

Climate ACTION Planning



Community-Wide Climate ACTION Planning

your community your energy your plan

This ongoing process involves 5 steps:

- ENGAGE*
- MEASURE*
- SET TARGETS*
- IMPLEMENT ACTIONS*
- MONITOR/EVALUATE/REPORT*

Climate ACTION Planning



Community-Wide Climate ACTION Planning

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☐ *ENGAGE*

- *Effectively Engage*
your community, staff, & elected officials;
- *Clear Understanding* → *change occurs*
with effective implementation strategies.

Climate ACTION Planning



Community-Wide Climate ACTION Planning

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□ MEASURE

- *Measuring your community's greenhouse gas (GHG) emissions is an important step in understanding the source of your GHG emissions;*
- *Helps you identify GHG reduction targets & corresponding ACTIONS.*

Climate ACTION Planning



Community-Wide Climate ACTION Planning

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□ SET TARGETS

- *Targets establish GOALS to work toward;*
- *Can be effective in GETTING STARTED & encouraging ACTION.*
- *BC Local Government Act - GHG reduction targets, policies, & actions required in Official Community Plans (OCP's)*

Climate ACTION Planning



Community-Wide Climate ACTION Planning

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□ IMPLEMENT ACTIONS

- *develop an ACTION PLAN*
(e.g. *Climate Action Plan, Community Energy & Emissions Plan, Integrated Sustainability Plan*);

or

- *use OCP or Regional Growth Strategy review processes to identify climate action planning goals & opportunities*

Climate ACTION Planning



Community-Wide Climate ACTION Planning

your community your energy your plan

☐ *MONITOR - EVALUATE - REPORT*

- *To determine whether reduction measures are producing expected results & if targets will be met;*
- *Opportunity to identify next steps (possibly revisiting targets & implementation strategies);*
- *Important to develop a monitoring system.*

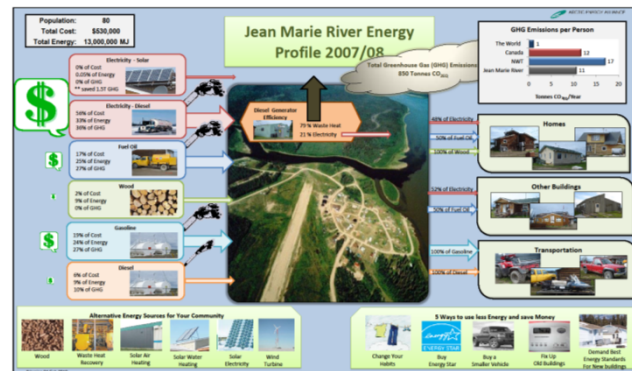
Climate ACTION Planning

Jean Marie River ... Climate ACTIONs

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Dehcho CASE STUDY - Jean Marie River

☐ AEA Community Energy Profiles (2007-08)



☐ Jean Marie River Community Energy Plan (~2010)

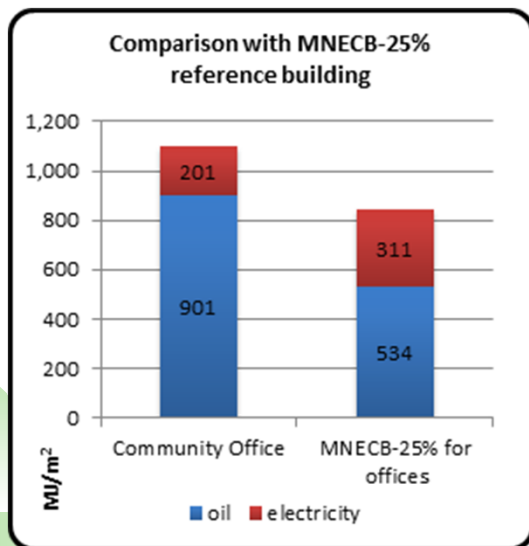
Climate ACTION

Jean Marie River ... Climate ACTIONs

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☐ ENERGY AUDITS

✓ *Yardstick (2012, Electricity & Fuel Bills)*



✓ *Targeted Energy Audits (2015)*

Climate ACTION

Jean Marie River ... Climate ACTIONs

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❑ *Energy Conservation & Efficiency UPGRADES (2015, 2016)*

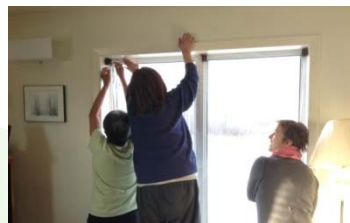
✓ *Programmable Thermostats*



✓ *LED Lighting (outside & inside lighting)*

✓ *Home Winterization "hands-on" workshop*

Climate ACTION



Jean Marie River ... Climate ACTIONs

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- ❑ *Solar PV Installations:*
 - ✓ *Band Office (installed 2005) &*
 - ✓ *Water Treatment Plant (2016)*



Climate ACTION

Jean Marie River ... Climate ACTION's

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☐ *Electricity Monitoring project (2012 - 2017+)*

- ✓ *Data loggers (NRCan) ... more specific data analysis on heavy circuits of larger buildings*
- ✓ *Intelligent Meters (NTPC)*
- ✓ *EMU's - home Electricity Monitoring Units*



Climate ACTION

Jean Marie River ... Climate ACTIONs

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□ NEXT STEPS:

- ✓ REVIEW Targets
- ✓ EVALUATE
- ✓ Update CEP
- ✓ MONITOR



□ MONITOR - EVALUATE - REPORT

- To determine whether reduction measures are *producing expected results & if targets will be met*;
- Opportunity to identify next steps (*possibly revisiting targets & implementation strategies*);
- Important to *develop a monitoring system*.

[//www.toolkit.bc.ca/Community-Wide-Climate-Action-Planning](http://www.toolkit.bc.ca/Community-Wide-Climate-Action-Planning)

Climate ACTION

AEA Climate ACTION projects (2015-17)

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- ✓ *High Efficiency LED lighting retrofits*
 - *TK(JMR)FN & TK(JMR)FN Dev. Corp.*
 - *Liard Valley General Store & Motel*



- ✓ *Residential LED COMMUNITY light bulb exchange*
 - *What timing would work for your community?*

Community Climate ACTION
around the Dehcho (2015-17...)

AEA Climate ACTION projects (2015-17)

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- ✓ *Solar PV installations (2016)*
 - *Village of Ft. Simpson - Recreation Centre*
 - *TK(JMR)FN - Water Treatment Plant*



Community Climate ACTION
around the Dehcho (2015-17...)



Village of Fort Simpson
~10 kW solar PV installation

Recreation Centre
Installed by: Bradbury Interiors

Installation:
30 May - 07 June
2016

Commissioned: 15 June 2016





AEA Community Partnerships

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AEA's Successful Community Partnership Approach:

- ❑ *IDENTIFY Community Energy ACTION priorities*
- ❑ *ENGAGE communities - Expressions of Interest*
- ❑ *REQUEST INPUT from Contractors - RFP's & RFQ's*
- ❑ *COORDINATE activities through Partnership Agreements with Communities & Contracts btwn. Communities & Contractors*

Community Climate ACTION
around the **Dehcho (2015-17...)**

Mahsí cho!



ARCTIC ENERGY ALLIANCE

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"Looking forward to working with you to create your Community Energy projects & seeing the SUCCESS you achieve through them!"

