

## Appendix 4-A: Sample projects and tasks to help write a work plan

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Use these samples to help create your own work plan or change them to suit your community's projects.

We identified sample energy efficiency and renewable energy projects based on the posters.

### **Five energy efficiency sample projects:**

- Promote energy efficient habits
- Promote Energy Star products
- Promote energy efficient vehicles
- Build new buildings that save energy
- Renovate older buildings

### **Five renewable energy sample projects:**

- Look into solar energy and technology
- Look into run-of-river hydro
- Look into wind turbines
- Look into efficient wood heating
- Look into cogeneration

The sample work plans offer ideas for tasks in each of the following general areas:

- Do public education – give people information they can understand and use
- Build capacity – for example go to a workshop or learn new skills
- Look for partners among other groups with skills in this area or funding for a project
- Lobby the territorial and/or federal government to create new programs, policies, or laws
- Give people financial incentives
- Make a community bylaw
- Do a demonstration project in your community

Your community energy plan may include one or more tasks for each project. For example, you may develop a three-year energy plan and work on five different projects. The work plan for each project for this three-year plan may not include all the tasks you need to do to complete the project. You may include the same project in your revised energy plan, with different tasks.

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### Sample project and ideas for tasks to complete the project

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☐ Renewable energy project

☒ Energy efficiency project

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**Project name:** Promote energy efficient habits

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**Expected results:** People in our community develop energy efficient habits, to help save money, use less energy, and produce less greenhouse gases.

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#### Ideas for tasks:

- Do public education about the habits people need to develop, to save energy. Encourage people to use those habits.
  - Learn how energy suppliers can help, and lobby them to take action. For example, suppliers can put in special electricity meters to encourage people to use less electricity at peak times – such as when everyone is making dinner.
  - Make a policy that people need to use energy efficient habits in community buildings. Put up signs so people know about the policy and follow it.
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**Sample project and ideas for tasks to complete the project**

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☐ **Renewable energy project**

☒ **Energy efficiency project**

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**Project name:** Promote Energy Star appliances and products

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**Expected results:** People in our community buy Energy Star products when they buy new things. They replace old appliances with Energy Star appliances.

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**Ideas for tasks:**

- Do public education about the Energy Star program and products.
  - Work with the local store to bring in energy star appliances and products. Maybe put together a large order to make it cheaper.
  - Offer people an incentive – money, a prize, etc. – if they buy Energy Star products.
  - Lobby the Government of the NWT - ask them to give people a refund if they buy Energy Star products.
  - Lobby the Public Utilities Board - ask them to order the Power Corporation to give refunds to people that use Energy Star appliances.
  - Make a by-law to ban products and appliances from the community that use too much energy.
  - Make a policy that the community must buy and use only energy efficient products and appliances for its own buildings.
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**Sample project and ideas for tasks to complete the project**

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☐ **Renewable energy project**

☒ **Energy efficiency project**

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**Project name:** Promote energy efficient transportation

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**Expected results:** People buy an energy efficient vehicle when they get a new one. People develop habits that support energy efficient transportation.

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**Ideas for tasks:**

- Do public education to encourage people to not idle their vehicle, to buy smaller vehicles that use less gas, to use public transport, to share a car, and to walk and bike rather than drive.
  - Work with the Department of Health to do an 'active transport campaign' - encourage people to be more active - to walk, bike, ski, snowshoe, etc. rather than drive.
  - Make a community 'ride board' – a notice board to help people find others that drive to the same place at the same time.
  - Lobby the territorial and federal governments – ask them to set higher standards for fuel efficiency in vehicles
  - Support public transportation systems
  - Make a policy that the community must buy the most efficient vehicles available for its own use.
  - Set up a small or large public transit system.
  - Make a community bylaw that people can't idle their vehicle.
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**Sample project and ideas for tasks to complete the project**

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☐ **Renewable energy project**

☒ **Energy efficiency project**

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**Project name:** Build new buildings that save energy

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**Expected results:** All new building in our community meet the latest energy efficiency standards.

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**Ideas for tasks:**

- Do public education about the federal government's EnerGuide for Houses program.
  - Train local builders so they understand and use the highest energy efficiency standards.
  - Work with the Housing Corporation or other housing agencies to develop higher standards for new homes. Use the EnerGuide for Houses program.
  - Lobby the territorial and federal governments – ask them to set territorial and national energy standards for homes and other buildings.
  - Make a community bylaw that all new homes must meet energy standards, such as those in the EnerGuide program.
  - Make a community bylaw or resolution that all new buildings must meet energy standards, such as those in the Commercial Building Incentive Program - CBIP.
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**Sample project and ideas for tasks to complete the project**

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☐ **Renewable energy project**

☒ **Energy efficiency project**

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**Project name:** Renovate older buildings so they save energy

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**Expected results:** All older buildings in our community get an upgrade to meet energy efficiency standards.

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**Ideas for tasks:**

- Do public education about how people and the community benefit if they fix up an older building.
  - Train building maintenance people in the community about energy efficiency for older buildings.
  - Lobby the territorial government for a funding program to renovate privately owned buildings.
  - Do an energy audit on each building the community owns. Save money and time - work with other building owners so everyone gets an energy audit at the same time.
  - Encourage homeowners to use the EnerGuide for Houses test to find out what they need to do to fix up their home.
  - Ask the energy audit people to recommend things to do that pay back within 10 years, or the life of the building.
  - Apply for 50% funding from the territorial government Energy Conservation program – a funding program for community owned buildings.
  - Consider using money from programs such as the ‘New Deal’, ‘Northern Strategy’, and ‘Gas Tax Funding’ to fix up community buildings and reduce operating costs.
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**Sample project and ideas for tasks to complete the project**

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☒ **Renewable energy project**

☐ **Energy efficiency project**

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**Project name:** Look into solar energy technology – hot water, air heating, electricity, passive solar gain.

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**Expected results:** Apply solar energy technology where practical.

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**Ideas for tasks:**

- Do public education about solar energy technology.
  - Learn about RETScreen – free computer software that can help evaluate solar energy projects. Ask the Arctic Energy Alliance to train local people to use RETScreen.
  - Train local people so they can set up solar technology and maintain it.
  - Work with other agencies and the territorial and federal governments to define possible solar projects.
  - Lobby the territorial and federal governments to set up funding programs for renewable energy systems that replace fossil fuels.
  - Offer money to people or businesses that replace fossil fuels with solar technology or other renewable energy.
  - Make a community bylaw that businesses must use some kind of solar technology or other renewable energy for part of their energy use.
  - Work with another agency and set up a demonstration project on a community building – for example the health centre, the school, or an elders' home.
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**Sample project and ideas for tasks to complete the project**

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- ☒ **Renewable energy project**  
☐ **Energy efficiency project**
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**Project name:** Look into run-of-river hydro.

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**Expected results:** Develop a run-of-river hydro system if possible.

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**Ideas for tasks:**

- Do public education about run-of-river hydro systems.
  - Learn about RETScreen – free computer software that can help evaluate hydro projects. Ask the Arctic Energy Alliance to train local people to use RETScreen.
  - Work with other agencies to do a feasibility study – to find out if a site can provide electricity for your community.
  - Lobby the territorial and federal governments to set up funding programs for run-of-river hydro systems that replace fossil fuels.
  - Make a community policy to provide a certain amount of electricity with renewable energy – to reduce the need for fossil fuels and the cost.
  - Train local people so they understand the technology and can maintain it.
  - Work with another agency and set up a run-of-river system, if possible.
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**Sample project and ideas for tasks to complete the project**

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☒ **Renewable energy project**

☐ **Energy efficiency project**

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**Project name:** Look into wind turbines.

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**Expected results:** Develop a wind system if possible.

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**Ideas for tasks:**

- Do public education about wind power systems.
  - Have a public meeting to talk about possible sites.
  - Visit a place that has a working wind system.
  - Learn about RETScreen – free computer software that can help evaluate a wind project. Ask Arctic Energy Alliance to train local people to use RETScreen.
  - Contact the Power Corporation and/or Energy and Natural Resources, GNWT for support.
  - Lobby the federal government for funding for wind projects.
  - Do a quick study to find out if the community has a possible site, funding, and technology.
  - Put up a tower to measure exact wind speed. Collect data for at least one year.
  - Do a study to find out exactly how much the system costs and who can pay for it.
  - Train local people to work on the project.
  - Make sure all parties agree to go ahead with the project. Build and operate the wind system.
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**Sample project and ideas for tasks to complete the project**

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☒ **Renewable energy project**

☐ **Energy efficiency project**

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**Project name:** Look into efficient wood heating.

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**Expected results:** People in our community replace fossil fuels with wood heat, as much as possible.

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**Ideas for tasks:**

- Do public education about efficient wood stoves, wood pellet stoves, and how to heat with wood.
  - Train people about how to properly use an efficient stove.
  - Learn about RETScreen – free computer software that can help evaluate renewable energy projects. Ask the Arctic Energy Alliance to train local people to use RETScreen.
  - Contact Environment and Natural Resources, Government of the NWT – they support renewable energy projects.
  - Lobby the federal government for new funding programs for wood stoves that replace fossil fuels or electric heat.
  - Offer people money or other prizes if they replace fossil fuels or electric heat with an efficient wood or pellet stove.
  - Make a community bylaw that says all wood stoves must meet certain standards and be efficient.
  - Change heating systems in community buildings to efficient wood or pellet stoves.
  - Find out if the community has a good supply of wood for fuel. Develop a forest management plan so the community can harvest wood forever.
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**Sample project and ideas for tasks to complete the project**

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☒ **Renewable energy project**

☐ **Energy efficiency project**

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**Project name:** Look into cogeneration.

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**Expected results:** Our energy system uses waste heat.

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**Ideas for tasks:**

- Do public education so people understand what is cogeneration and why it's a good idea.
  - Talk to and visit other communities that already use cogeneration – such as Fort McPherson.
  - Learn about RETScreen – free computer software that can help evaluate cogeneration projects. Ask the Arctic Energy Alliance to train local people to use RETScreen.
  - Contact the Power Corporation and Energy and Natural Resources, GNWT – they have an interest in and support cogeneration projects.
  - Look for buildings close to the diesel generator and measure the distance.
  - Find out if it's possible to set up a cogeneration system with the community's diesel generator.
  - Do a study to find out exactly how much the system costs and who pays for it.
  - Train local people to work on the project.
  - Make sure all parties agree before you go ahead with the project. Build the cogeneration system and operate it.
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