



Training: Solar Power for Camps and Cabins

In this spring (2022), the FNQLSDI is offering in-person trainings on small DIY off-grid solar installations. We will touch on the basics, do experiments to get a feeling for power consumption, and then practise assembling a small 12 V photovoltaic solar system, using affordable and available components. This system will be able to light a cabin, and charge cell phones and other electronics, but it will also demonstrate the working principle of bigger, more powerful systems.

Topics & Duration

The training program usually takes two full days, but the scope can be adjusted to the needs of the participants.

- Basic principles of electricity (Voltage, Current, Energy, Power);
- How to be energy efficient;
- How to calculate energy needs;
- Existing technologies and (batteries, charge controllers, connectors, solar power stations, etc.);
- Placement, orientation and mounting of solar panels;
- Solar charge controller programming;
- Component assembly, best practices and safety (we will only work with 12 V DC);
- Problems and troubleshooting;
- Purchasing tips for components;
- Resources to learn more about photovoltaic systems and renewable energy in general
- Alternatives to solar: Wind and hydro?

Who is this workshop for?

- People who may own a cabin, hunting camp, RV or camper trailers.
- People who want to learn how to learn how to install a simple, affordable solar photovoltaic system, that can provide light and charge electronic devices.
- People who have a solar system installed at their cabin, but are not happy with the performance, or want to upgrade their PV system.
- People who want to learn about energy and energy efficiency
- People who are interested in the subject of renewable energy.

No prior knowledge is required, and topics may be adjusted to the group's experience.

If you want to offer the training in your community

If you want to offer the training in your community, or if you have any further questions, please write to

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We're looking forward to it!