

Renewable Energy Projects

Modular Buildings
-
Protection Panels
-
Combiner Boxes

Overview

EPTCON offers complete Engineering, Procurement, and Construction (EPC) Services for Renewable Energy Projects including the Feed-in Tariff (FIT) projects announced by the Ontario Power Authority (OPA) - from the collector source to the utility connection.

In addition, to increase your projects 'plug-&-play' features with made-in-Ontario content, EPTCON also offers custom built, pre-engineered, project specific Modular Buildings and Protection Panels to suit any FIT project. For your Solar Project, we also offer 'Combiner Boxes', for end-of-row solar panel terminations and at the modular building.

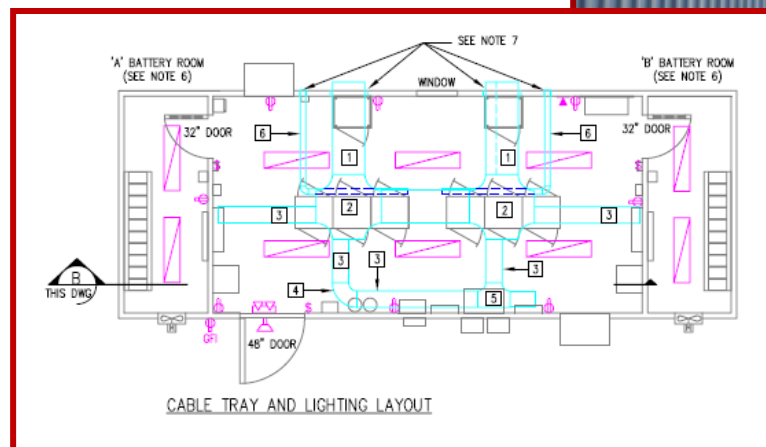
Modular Buildings

General Description

EPTCON offers a line of steel clad modular buildings that are custom built to your projects requirements - BioGas, Biomass, Solar, Wind or Waterpower. Typically, these buildings are complete with the following features:

- Made-in-Ontario content
- Pre-engineered to be project specific with a limited 20 year warranty on building structure
- Separate rooms for distribution/control and batteries
- Designed (snow load) and Insulated for the Ontario climate with heating/cooling systems to suit the installed equipment
- Lighting systems - Interior general purpose, emergency, exit and exterior lighting systems to suit building layout, code and project requirements
- Distribution equipment
- Cable Tray System
- Fire suppression and/or alarm system
- Cable Termination boxes to suit project requirements
- Security & Alarm System
- Station Services
- Grounding System
- Durable Finishings
- Custom Furnishings available

Typical Modular Building Plan & View



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Solar Project “Inverter Powerhouse”

EPTCON offers an “Inverter Powerhouse” specifically designed for the Solar FIT project market. Available in 1mW and 2mW sizes, it includes the typical features noted above with interior mounted inverters and an exterior mounted medium-voltage transformer. The entire assembly is pre-packaged on a skid-type structural steel frame.

We will integrate your choice of made-in-Ontario Inverters. A main combiner box assembly can be installed on the exterior of the building to accept DC feeder circuits. The entire assembly is shipped ESA approved and ready to accept field wiring.

Protection (& Control) Panels:



- EPTCON has been designing and installing customized P&C panels for many years and offers this expertise to the market for installation in the EPTCON modular building or for you to install into yours.
- EPTCON can provide an Engineered design package for your project or build the panels to suit your drawings.
- Testing & Commissioning plans can be tailored to suit your requirements both in our shop and in the field.

Combiner Boxes

EPTCON offers custom 6, 12, 18 and 24 circuit combiner boxes. These are designed for mounting on the end of each row of solar panels and are complete with the following features:

- ESA certified assemblies with CSA certified components
- Fibreglass NEMA 4X enclosures
- Painted Steel back plates
- Dead front fuse holders ready to accept your fuses
- Premeasured wiring bundles with Quick-Connect fittings to join Solar Panel output to Combiner Box
- Optional custom “Main Combiner Box” for exterior powerhouse mounting to accept customers underground cabling from Combiner Boxes and cables from the distribution equipment
- Cable/conduit connector openings sized to suit customer spec’s for underground cables

Contact EPTCON to determine how we can assist you with your projects requirements.