

Concept Cottage - Solterre

LOCATION	Second Peninsula, Lun. Co., NS
SIZE	1414 sqft.
# BEDROOMS	3
ESTIMATED HEATING	Propane: \$100/yr Wood: ¼ cord
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FOUNDATION	R-33 : Slab-on-grade
WALLS	R-68 : TJI double wall
ROOF	R-114 : Wood truss with cathedral ceiling
HEATING	Solar Thermal (hot water baseboards), Wood stove and propane boiler
OPERATIONAL COSTS	Propane: \$250/yr (cooking)
VENTILATION	96% efficiency ERV with ground loop preheat for supply air
COOLING	Passive nighttime cooling
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DESIGN	Solterre Design
ENERGY MODELLING	Passive House E-Design
BUILDER	Solterre Design
LANDSCAPE	Outside! Design

- Solterre Design created a cottage that incorporates Passive House as the first step in being simultaneously architecturally inspiring, off-grid and comfortable.
- A green roof, locally produced solar thermal panels for hot water, and photovoltaic panels that provide all of the house's electricity.
- Targeting LEED Platinum and PASSIVE HOUSE certification.

“Working with Passive House E-Design has been an absolute pleasure. Natalie has worked with us at Solterre, during the design phase through to construction on a variety of projects, providing detailed energy analysis and advice on various Passive House details. She brings extensive experience, ability to brainstorm with a team, and humour(!) to the process.”

~ Jennifer Corson, M. Arch. Solterre Design Inc.

