

RAPIDLY DEPLOYABLE HOUSE

- **High performance due to prefabricated panels** minimize operating costs
- **Easy to transport** can be packed into shipping containers
- **Easy to assemble** and does not require skilled trades persons
- **Durable construction** minimize maintenance
- **Modular design** supports different configurations and is scalable
- **Flexible utilities** allows building to be grid-connected or stand-alone



BUILDING DETAILS:

Floor Area: 7.315m (24 ft) x 12.192m (40 ft) or 89.187m² (960 ft²)

Building Kit Cost Target: \$150 per ft² (\$ 1,620 per m²)

Building Height: >2.743m (>9 ft) ceilings, spacious and bright

Energy Requirements (Office Configuration): <1.5 kWe total most of the time

Construction Time: <1 week assembly time for building envelope

Foundation: raised raft foundation made of aluminum

Walls: Structural Insulated Panels (SIP's) used for walls, floor and ceiling, all contain vacuum insulation

Heating: removable floating floor with radiant heating

Utilities: surface mounted wiring and plumbing

Roof: roof trusses made of aluminum

Applications: remote housing, and laboratories, etc.

For more information follow link: <http://www.nrcan.gc.ca/science/video/17167> Or contact: Mark Douglas, Alternative Energy Lab, mark.douglas@canada.gc.ca or 613-796-6503

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