

# Solar Air Heating for Animal Barns



## Nexus Solar Corporation

### MEMO Farm South Durham, QC

#### Key Facts:

- **Solar production:** 200m<sup>2</sup>
- **Solar Equipment:** SOLARWALL®-SolAgra
- **Financial Assistance:** 25% funding from REDI
- **Payback:** less than two years

The Memo farm in southern Quebec opted to use SOLARWALL® for two new piggery buildings. Piggery buildings require large amounts of fresh air for ventilation and thus, are costly to heat.

The SolAgra technology used on Memo's buildings is an outside wall that, together with a ventilation system, is used as an unglazed solar collector that pre-heats ventilation air flowing into the building.

Outside air is drawn through the perforations of the wall and is warmed up. Energy losses from the inside wall are also recovered and sent back to the building. Fresh air is distributed by ducts from the ceiling, allowing indoor air destratification.

The buildings boast a solar wall on the whole south façade of each of the buildings. The south wall is gabled and is 18 metres long by 6.8 metres high at the centre.

During normal winter operation the cold pre-heated air enters the building from a distribution duct and is directed according to the needs of the building's rooms. Air from the solar collector can be mixed with direct outside air to maintain an even temperature.



SolAgra Technology installed on Memo Farm barn.

## Contact Us

### Nexus Solar Corp.

[www.nexussolar.com](http://www.nexussolar.com)

[forinfo@nexussolar.com](mailto:forinfo@nexussolar.com)

1-866-303-5960

1336 8th St. East

Saskatoon, SK S7H 0S9

The Renewable Energy Deployment Initiative (REDI) is a program established by Natural Resources Canada (NRCan) to encourage the use of proven, reliable and cost-effective energy systems.

For more information call:  
1-877-722-6600

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Nexus Solar Corporation provides customized energy solutions for industrial, commercial, institutional, residential, or agricultural buildings. At Nexus, we help you harness free, ambient energy (like sun, wind and water) to reduce your dependence on fuel-burning, inflationary and environmentally destructive utilities. Renewable energy technologies can help save money and the environment. Visit our website or contact us directly for information on consulting procedures, products and funding options.

Teresa Jeannine Paul

President, Nexus Solar Corporation