SVDN Elders Net Zero/ Housing project

BY: Darby Essie



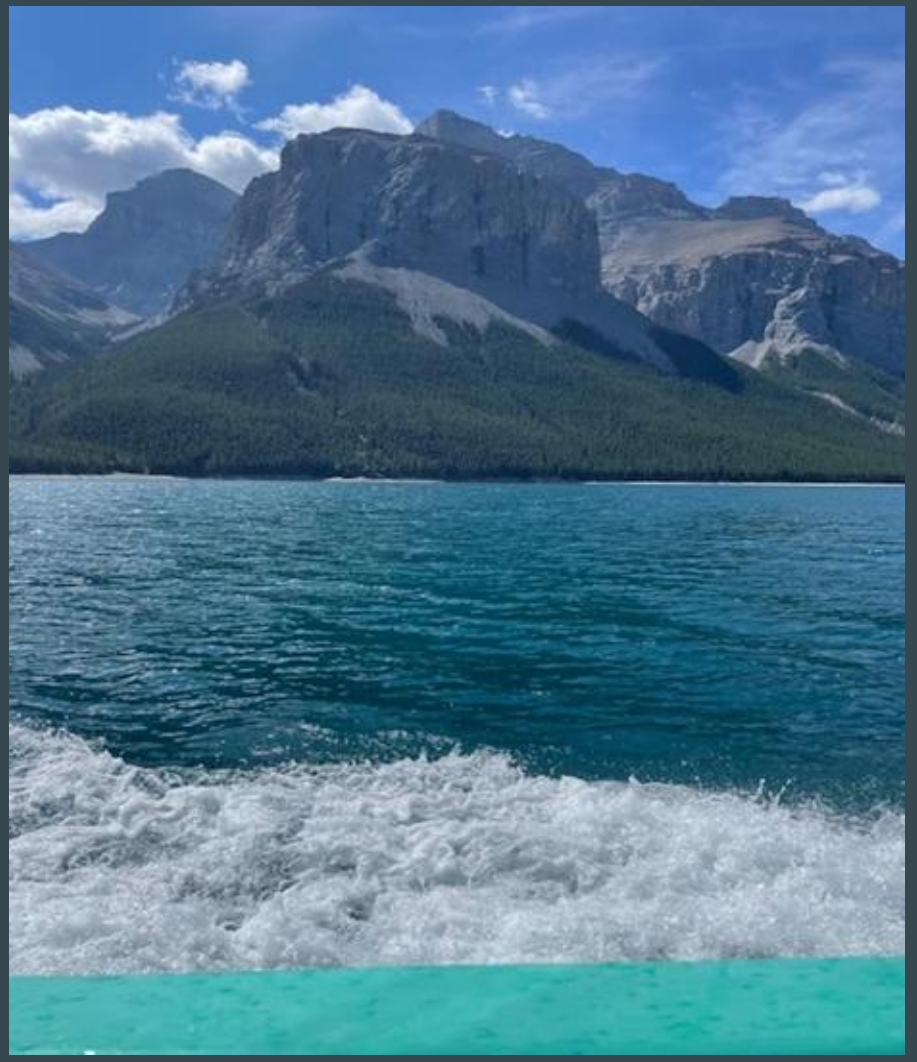
Thurman Darby Essie

•-Energy Advocate.
•-Trained Chef.
•-Advanced Drone Pilot.
•-with other Rolls in the SVDN community.



SVDN Energy Advocate

- Heat Pump Project.
- Direct Install Kits.
- LEAP Training.
- Future development to Sioux Valley with the new homes.



SVDN Elders Lodge

- History of the building:
- Created in 1983
- For elders and people who need the care.
- transportation for residence for health care needs
- 24h nursing
- Full Kitchen
- visiting areas (including new addition during covid)




Photo Courtesy of Elton Taylor


Photo Courtesy of Elton Taylor


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Funding sources

- Cost for the project. (building envelope, and energy audit.)
- Federal government: 2.9million
- Twist cost of material going up
- Efficiency Manitoba Program: Commercial Deep Energy Retrofit (Reduce your site's energy use by 20% or more from the baseline energy use and receive an incentive of $2.25 to $6.00)

Project construction

- Bock Stael construction: SVDN Members.
- Bock Stael also is doing the Geothermal Heat Pump.
- Bock Stael upgrade to the rooms (doorways, ventilation duckting, sky lights, Roof upgrades, Installation, ect)
- Bock Stael is even doing the Solar panels for the Lodge.









Up to date on Project.

- Currently the Elders home is Under construction with the Room-to-Room upgrades and other additions added to the SVDN Elders Home.
- Once the Room are completed and the Ground has settled, Bock Stael will Be putting up the Solar panels.





Geothermal Heat Pump Project



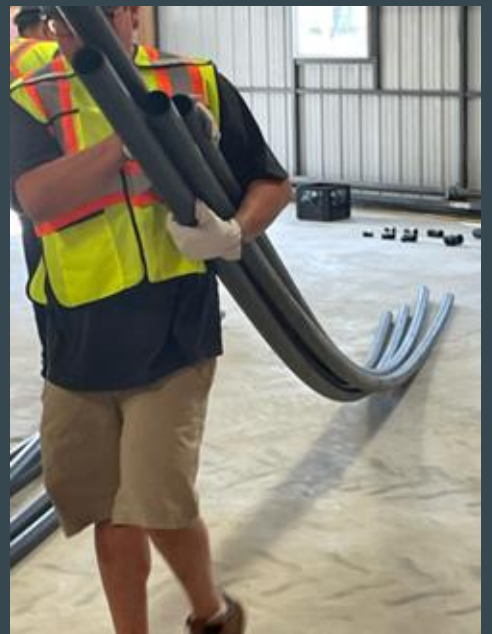




learning about Geothermal Heat pumps

- Laufer corp training: 4 weeks at the training school and 2 weeks on field year round training.
- learning the technical side of loop systems, and fusing.
- solving maintenance problems.







Project details

- 25 home selected with the help of SVDN Housing and C&C
- SVDN Housing construction crews
- Local pumping: 6 Star Plumbing
- Electrical work: Burgees

Funding

- Working with Raven Corp we were able to get funding for not just the Geothermal Heat pump but also with helping seal the home. (Roof upgrade, siding, Windows, insulation, and Doors.) this through Efficiency Manitoba.

- SVDN Housing was able to put funding into the project with the help of CMHC. (stacking funding so we left the home almost brand new)

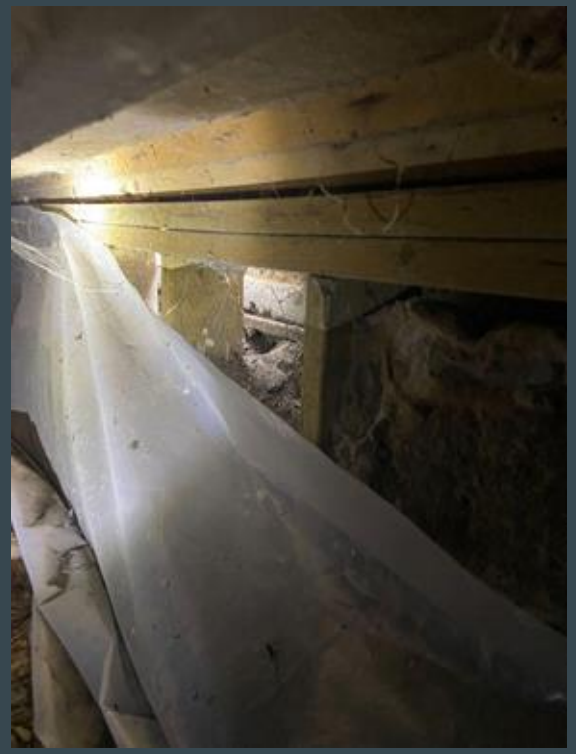
RAVEN INDIGENOUS CAPITAL PARTNERS

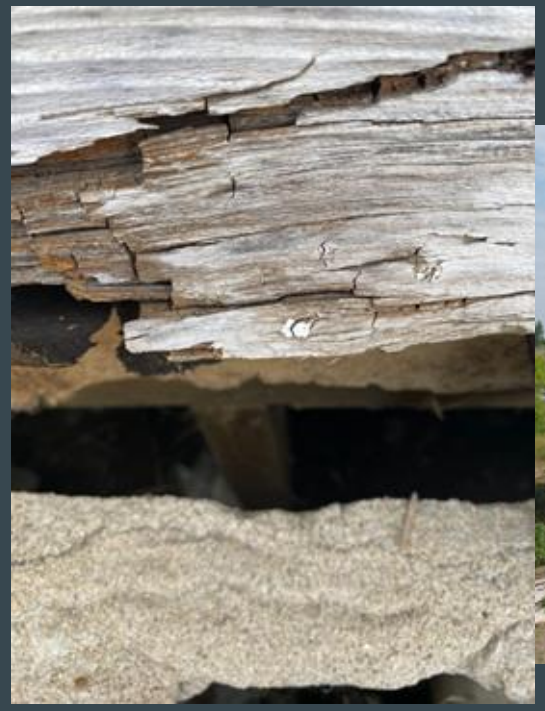
SIOUX VALLEY HOUSING

CMHC SCHL Canada

EFFICIENCY MANITOBA













Installing the Geothermal Heat Pump

- after the Renovation were completed on the 25 homes we got to do the loop systems into the home



Inside work for the Geotherm Heat Pump

- Working with 6 star Plumbing I was able to create employment with the Geothermal Crew.
- the Geothermal Crew are working with 6 star plumbing so they always have work when there is no Geothermal heat pump installs.
- 6 star also takes on the after hour calls.
- burgess electrical takes on the electrical work, as you need someone with electrical certification so Manitoba Hydro can inspect and approve of the work.
- also the MGEA (Manitoba Geothermal Energy Alliance) has to approve of the work and machines being used for the Project. (Laufer Corp does are inspections and works with SVDN so we are getting Machines that work for are ground type.









Thank you for listening

- This the SVDN Elders Home/ SVDN Geothermal Heat Pump.
- SVDN is currently working on doing more homes with the same Program for the Geothermal Heat Pump Prject.

Dakota: Anbetu Waste Yu ha wo

English: Have a wonderful day