

NET ZERO LIVING

Live Energy Free





To be Energy Free is not only possible,
it's easier than you think



Insulate concrete floors

Hydronic heating line
attach to steel





ICF FOUNDATION WALLS

2x8 walls, built with
Double 2x4 inner & outer walls
Off set studs & double insulated

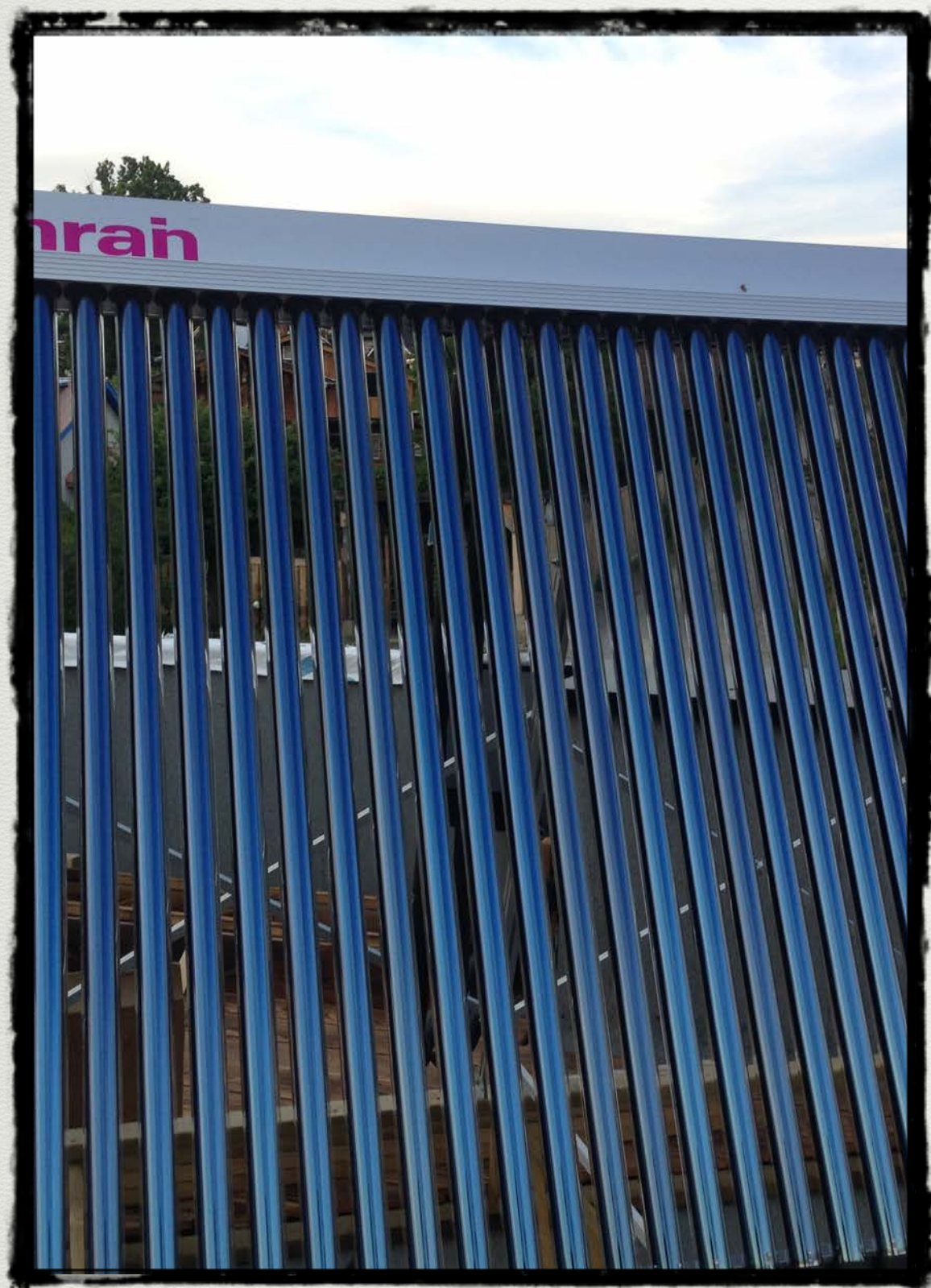






FLAT ROOF IDEAL FOR SOLAR

Thermal system on North end, facing South
Mansard is used for PV



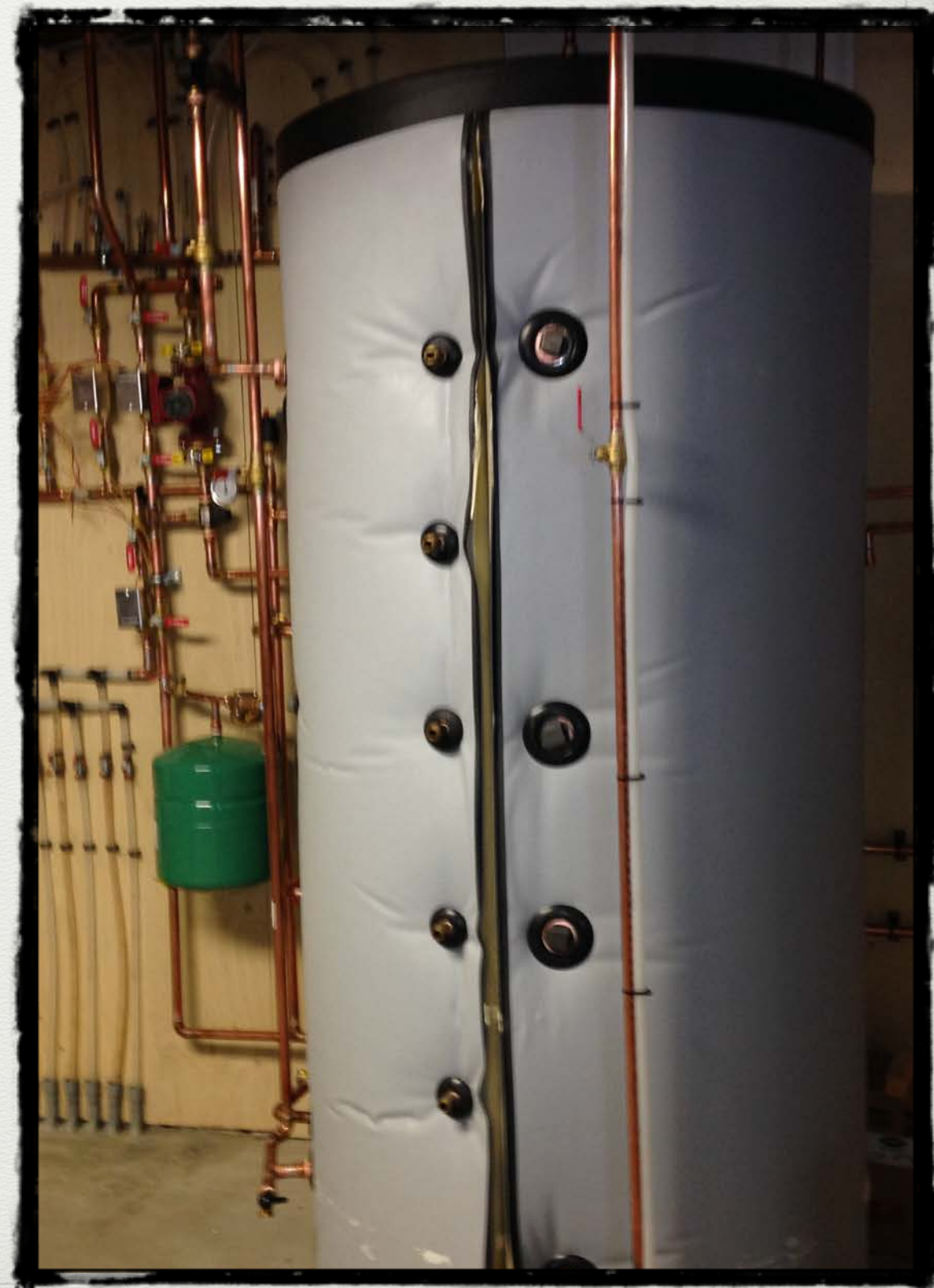
High Efficiency Wood Stove

Stove is equipped with a
water heat exchanger,
connected to the solar tank.
Stove can be incorporated
with a "Kachelofen"



1000 ltr. Solar Tank

Multi core tank to supply
endless DHW
Connected to thermal solar
panels and fire place with
thermal water heat
exchanger



Hydronic heating system

- The heating system is connected to the solar tank





PV PANELS

Produce electricity directly from the sun - the fuel is
FREE

PV Panels covered w. snow

- No power production this way
- Snow must be removed by hand
- Thermal system must also be free of snow in order to produce heat



Micro Inverter

Each PV panel is equipped with one of these.

The advantage here is that each panel produces line voltage.

All panels are connected in parallel, directly to the main electrical panel. Each panel works independent from the others.



Main Electrical Service

- Smaller panel designated as the Emergency Panel with all the essential loads such as refrigeration, circulation pumps and solar thermal controller
- This panel is connected to a transfer switch
- The Transfer switch is connected to an EM generator & Hydro



Flat Roof

- Makes easy access to solar system
- Can be used for container gardening
- Extended living space





ROOFTOP DECK

Roofing material must be covered to protect from damage

The Benefits of Sustainable Living

- It makes you feel good 😊
- You save money
- It's added value to your property
- Your grand kids will love you for it 😇