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## Let Your Roof Go To Work For You

By Stewart Lytle, Reporter

REGIONAL – If you are heating. INroof offers thinking about adding solar an opportunity to power to reduce your utility save on rising heating costs, but don't like the look of costs, while reducing raised solar panels on your roof, a take a look in Salisbury at the footprint. new roof on the Johnson Lumber building.

It appears to be a standard they are much more metal roof on the 6,500 squarefoot building. But look closer. The 10 feet at the top of the roof are different. Those panels across a 1,000 square feet of the roof 20 percent for the are collecting solar rays that this winter will heat the air and water inside the building.

Harkness, whose Harkness Built has been framing houses and buildings for 35 years. Harkness has long been interested in solar power and has come up with a different approach from the standard photovoltaic panels being used in solar farms and on commercial buildings and residences.

"Through many years of residential innovation, design, and construction, it became apparent to Fred that there was a definite need to improve and integrate roofing and energy technology. This became his Metal roofs have other ambition," the INroof web site advantages. They carry a 30states.

Harkness's panels do not produce electricity, at least right now. They collect the sun's ray and turn them into heat, both for the building space below and water heaters.

The average New England home spends 75 percent of its energy on water and space heating systems.

home's

The panels are not only pretty to look at, efficient, capturing about 65 percent of the sun's energy as compared to 15 to photovoltaic panels.

Harkness named company, This is the brainchild of Fred INroof Solar, and producing the panels at CI Works in Amesbury. The name is apt. Everything to produce heat is inside the panels, invisible to anyone looking at the roof.

> Running through the metal panel is a tube that contains a Johnson Lumber Co. in Salisbury glycol solution. When

heated, the glycol transfers the heat to a storage unit. A water source heat pump heats the building and water heaters.

year warranty and eliminate the problem of ice dams. INroof's Nor'easter panel has a Nor'easter collectors have a smooth, solarcollecting coating that sheds snow easily. If necessary heat can be pumped back through the roof to melt snow and ice. The panels are compatible with geothermal



Unlike standard metal roofs, the INroof panels "go to work for you" heating the building and INroof.

The INroof panels can be a "bit pricey," he said.

standard asphalt roof, but they are certified and qualify the on a tax rebate program.

grant from the Massachusetts panels and let contractors install Clean Energy Center as part of its InnovateMass program. Harkness reducing your heating bills, said used the grant to reduce the cost experimenting with adding thin Joe Dipietro, project manager for of installing the panels for the photovoltaic solar collectors new roof at Johnson Lumber.

upgrading any roof, but the glycol solution, and the thin The INroof panels may be Dipietro believes they are ideal almost twice as expensive as a for new home and building heat the building and create construction.

INroof, which has a patent owner for a 30 percent federal tax pending on its technology, is is planning to install the INroof credit. Massachusetts is working installing the panels on several panels with the thin photovoltaic homes and boat houses in Maine. collectors on the back side of its In 2017, INroof won a \$60,000 The goal is to manufacture the roof next year.

them.

The company directly onto the metal panels. The panels are great for Together the metal roof, heating photovoltaic collectors would electricity.

DiPietro said Johnson Lumber

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