

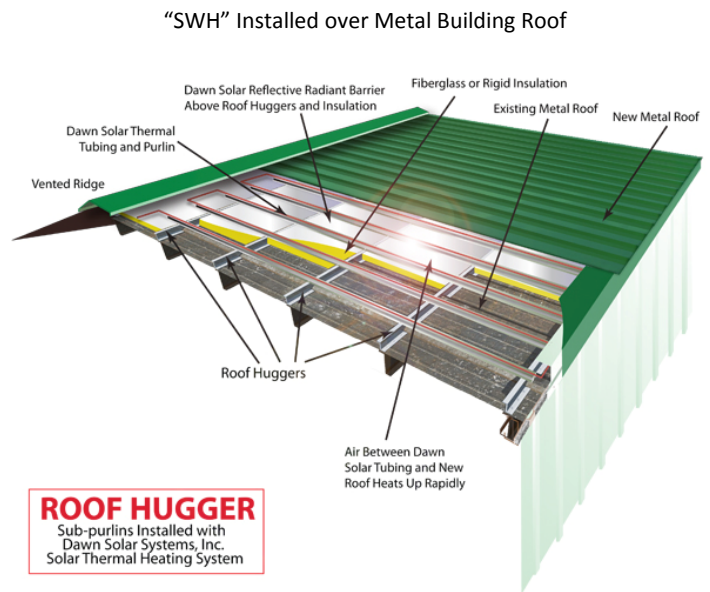
Get a New Roof *that Heats your Building*

ENERGY SAVING RE-ROOFING TECHNOLOGIES

What makes better sense than using your roof as an alternative heating source for building and process equipment heat? By using the sun's radiant heat reflected on the roof, Solar Thermal Water Heating "SWH" roof systems simply do just that. Your operating costs will be reduced from the first day the system is installed. And, by using a new metal roof with a 40-plus year service life, you significantly reduce other building expenses related to roof maintenance.

WHAT'S EVEN MORE IMPORTANT TO YOU is these systems qualify for Federal Solar Energy Tax Credits. Commercial Building Owners are now eligible to cash in on the major Tax Benefits of these renewable Energy roof systems.

Add the Savings from reduced energy consumption to the Tax Credits and **YOU GET A NEW ROOF THAT PAYS YOU BACK**



What you get with a "SWH" System:

- PROVIDES SIGNIFICANT ENERGY SAVINGS
- QUALIFIES FOR FEDERAL SOLAR ENERGY TAX CREDITS
- ELIGIBLE FOR IRS SECTION 179D ACCELERATED DEPRECIATION
- CAN BE INSTALLED OVER ANY TYPE OF EXISTING ROOF MATERIAL
- VIRTUALLY ELIMINATES ROOF MAINTENANCE
- SUSTAINABLE
- GREEN AND LEED™ QUALIFIED
- MOST MATERIALS ARE MADE FROM RECYCLED MATERIALS
- ROOFS ARE AVAILABLE IN MANY COLORS
- IMPROVES AESTHETICS OF ANY BUILDING
- USES A PATENTED ROOF HUGGER SUB-PURLIN
- METAL ROOFS ARE WIND/HAIL RESISTANT

For more information, contact:

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ROOF HUGGER® RE-ROOFING TECHNOLOGIES

SYSTEM APPLICATION

“SWH” systems can be installed over existing metal roofs from thru-fastened ribbed panels to standing seam systems with or without floating stand-off clips and thermal spacers. The Roof Hugger® “Nested” sub-purlin is a patented design that is manufactured to accommodate any roof profile regardless of panel depth or major/minor rib spacing. The assemblies can include added fiberglass or rigid insulation for greater thermal resistance.



“SWH” installed over metal roof with fiberglass insulation between existing metal roof and bottom of solar tubing

SYSTEM DYNAMICS

How do “SWH” systems work? When the sun heats the new metal roof, the air-space between the old and new roofs is heated, on the average, 50-plus degrees more than the outside air temperature. When this happens, the flexible tubing that is installed directly beneath the new roof is also heated. This tubing is filled with a water and glycol fluid that in turn heats as well. The fluid is then circulated through solar powered pumps and is used to heat water in storage tanks. For new construction, the tubes can be installed in the building floor for radiant heat. The system is specifically engineered to suit your building’s requirements by Dawn Solar Systems (www.dawnsolar.com).

TAX BENEFITS

Under the conditions of the Economic Stabilization Act of 2008 and the more recent American Recovery and Reinvestment Act of 2009 (a.k.a. Stimulus Bill), commercial building owners that improve their energy efficiency using solar systems are eligible for tax credits as allowed by Section 179 of the U.S. Tax Code. These credits have been extended for projects completed prior to January 1, 2017. The tax credit amount is a dollar-for-dollar credit that equates to 30% of the total in-place cost of the system (roof panels, sub-purlins and mechanical/electrical equipment including labor). In addition, the installation is eligible for IRS Bonus Depreciation, which allows 50% the first year and the balance over the following five years. Depending on the State your project is located, a multitude of Loan Guarantees/Funding, Grants, Renewable Energy Bonds and Tax programs are available. Consult your Tax Professional for specific investment tax credit details.

SYSTEM PERFORMANCE

Depending on the profile of the existing roof, most cavities between the old and new roofs are no more than two-inches deep. To increase the energy efficiency even more, rigid or fiberglass insulation can be added to the cavity while providing the air space above. This allows you to reduce your energy cost even more so while upgrading your building roof to current Model Energy Codes.

As with all solar energy systems, efficiency is based on several factors. These include the geographical location of the building, the roof’s southern exposure to the sun and shading of the roof due to foliage or other buildings as well as other specifics. “SWH” system case studies and cost benefit analysis have reported a return on investment to the building owner in four to six years using the energy consumption decrease and eligible tax incentives. To determine if your building is a good candidate, contact Roof Hugger for a “Cost Benefit Analysis”.