

**A REVOLUTION
IN SOLAR HEATING**

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Solar heating then and now:

- Solar heat collectors convert sunlight to useful energy much more efficiently than other renewable energy technologies.
- Heating our homes is our single greatest use of energy in buildings, often making up 60-75% of total energy demand.
- Solar heating systems can reduce heating costs by up to 75% in many climates.

But there are good reasons solar heating systems are not more common – yet

Until now, integrated solar heating systems (systems that provide both heating and domestic hot water and include one or more backup heat sources) have required customized solutions.

In a typical system, multiple, different controls have been needed to perform the various system functions, each requiring individual wiring and programming. Likewise, system piping was uniquely designed for each project.

For installers, this has meant high design, labor and maintenance costs and long training periods for technicians. As a result, homeowners and the industry as a whole have not had access to reliable, cost-effective solar heating systems.

All of that is about to change...

SolarLogic has removed the complexity from solar heating, eliminating the barrier to making solar heating mainstream.

Introducing SolarLogic's two unique flagship products:

SLASH-D

(SolarLogic Assisted Solar Heating Design)

is a **software-based design tool** for use by heating contractors and system specifiers. Using a few basic inputs, including the location of the project and heat demand of the building, the **SLASH-D produces a complete system design package** and delivers it over the internet. It includes a system piping schematic, parts list, and even estimated solar savings based on real weather data – no more costly design and engineering.

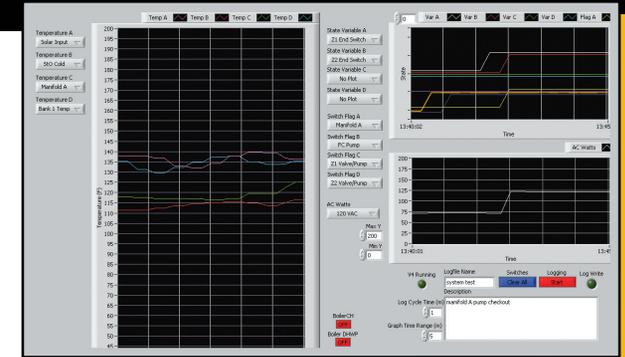
SLIC

(SolarLogic Integrated Controller)

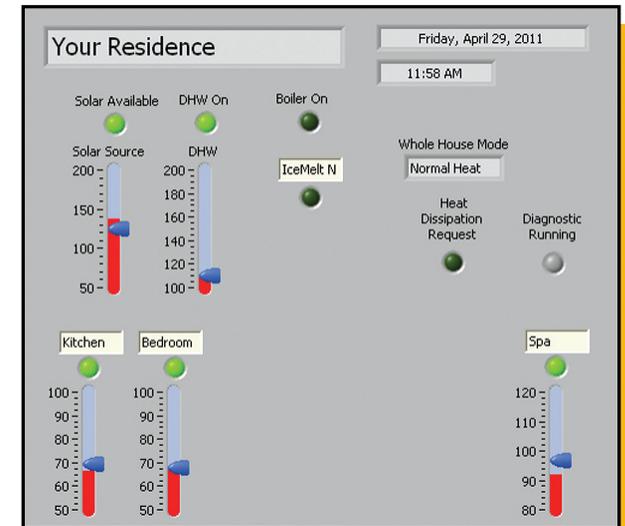
is a combination **hardware/software system controller** that replaces all conventional controls, adds intelligent logic, and provides a host of internet-delivered benefits such as remote monitoring, diagnostics, data logging and remote system operation.

The SLIC uses a file output by the SLASH-D for information about the project, so it starts up knowing exactly how to operate the system – eliminating the need for programming and parameter set-up.

SLIC (SolarLogic Integrated Controller)



Diagnostics Screen



Control Panel



Multi-stage Zone Control

SLASH-D and SLIC are versatile, able to handle a wide variety of system functions including:

- Solar heat prioritization
- Backup boiler operation
- Up to 10 hydronic heating zones (radiant, baseboard, etc.)
- 2 ice-melt zones
- Domestic hot water tank
- Solar heat storage tank
- Domestic hot water recirculation control
- 1 pool and 1 spa
- Night-sky radiant cooling

FEATURES INCLUDE:

- Web monitoring of over 250 data items
- “Diagnostic mode” enabling the system to be remotely commissioned and operated over the internet to isolate problems and address them quickly
- Alarms and alerts
- Non-powered thermostats – no batteries to replace ever
- Individual zone or whole house modes to optimize for energy savings (solar only) or comfort
- Regulated “solar heat banking” in masonry (mass) radiant floors
- Radiating excess heat through collectors at night in summer to keep storage tanks cool or to cool mass floors

SLASH-D and SLIC can handle many system types “right out of the box” including:

- Heat exchanger or solar-direct systems
- Evacuated tube or flat plate collectors
- High or low-temperature hydronic heating
- Atmospheric or condensing/forced-combustion boilers
- Systems using heat storage tanks or masonry-floor heat storage
- Drainback or closed loop systems

SOLARLOGIC, LLC

SolarLogic, LLC was formed in Santa Fe, New Mexico in 2008 to resolve the barriers to deploying **integrated multi-source/ multi-load thermal energy systems** by providing products and services that eliminate their complexity.

The company’s principals have been involved in specifying, designing and installing thousands of renewable energy systems – and we are well aware of the challenges to offering cost-effective integrated solar heating to customers.

The **SLASH-D (SolarLogic Assisted Solar Heating Design)** and the **SLIC (SolarLogic Integrated Controller)** are the manifestation of our wealth of combined experience in the industry – it’s our expertise in patented hardware and software.

We examined the lessons learned from 35 years of installations and applied them to **re-thinking solar heating** as it has been done until today – **and we designed a way to do it better and more easily.**

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