

# U.S. Solar Heating & Cooling Alliance

- a Division of  SEIA Solar Energy Industries Association®

SEIA SHC Alliance Conference Call – Minutes from March 9, 2015

Attending – 24 participants:

	Moderator/Speaker	Company
1	Chip Bircher	SEIA
2	Mick Humphreys	Apricus Inc.
3	Sarah Smith	Center for Sustainable Energy
4	James Critchfield	Environmental Protection Agency
	Name	Company
5	Brendan Mannle	Apricus Inc.
6	Dan Gretsches	SOLARHOT
7	Dan Szelove	Aquatherm Industries, Inc.
8	Dave Szelove	Aquatherm Industries, Inc.
9	Douglas Falkenburg	Ely Beach Solar
10	Edmond Murray	Aztec Solar Inc
11	Henry Vandermark	Solar Wave Energy, Inc.
12	Hugo Aguilar	IAPMO R&T
13	Jack Tyson	Apricus Inc.
14	Jeff Curry	Lakeland Electric
15	Jim Huggins	Solar Rating & Certification Corp.
16	Katherine Stainken	SEIA
17	Les Nelson	IAPMO R&T
18	Martin Misenhimer	ATAS International
19	Michael Intrieri	SunDrum
20	Nick Toman	Viessmann Manufacturing Company Inc. (US)
21	Ramsey Brown	Hawaii Energy Efficiency/Leidos Engineering, LLC
22	Remo Eyal	UMA Solar
23	Robert Waters	Viessmann Manufacturing Company Inc. (US)
24	Victoria Hollick	Conserval Systems, Inc.

## Action Items:

- **Replay of Feb. 9 phone call available:** [Click here to download the audio .mp3 file](#)
- **Mon. Apr. 13:** Next SHC Alliance conference call, 4 p.m. Eastern.

## Minutes:

1) SEIA antitrust reminder was read.

2) New Participants

- None

3) 2015 International Solar Energy Provisions (ISEP)

[Jim Huggins, SRCC](#) and [Shawn Martin, International Code Council \(ICC\), Solar Thermal](#) introduced a new publication from ICC titled [2015 International Solar Energy Provisions](#) that pulls together all the building, plumbing, electrical and mechanical code provisions and standards for solar technologies from the 2015 International Codes® (2015 I-Codes). Both photovoltaics and solar heating and cooling are covered. These codes were scattered in various publications, making it difficult for inspectors, building officials and others to locate them. SRCC Standards 100, 300 and 600 are included in their entirety, along with sample solar permitting forms and other useful information. See [press release](#) and [ordering information](#).

#### 4) Case Study: Apricus installation in San Francisco

[Mick Humphreys, Apricus](#) provided an overview of a recent project in San Francisco. Installed on a 1900's-era apartment building with 22 units, the solar water heating system provides about 75% of the hot water needs. The owner of this facility had a solar water heater on another building which had worked well for over 20+ years, so he was already convinced of solar's value. The system includes 12 AP-30 collectors (30 tubes each), installed in two sections on the east and west sections on the roof. A controller and a 700-gallon atmospheric storage tank with three heat exchangers (two for the collectors and one for the pre-heat loop) complete the system. Backup heat is provided by a 100-gallon, 270,000 Btu/hr gas water heater. The system is estimated to save 147 MMBtu of energy annually and reduce CO<sub>2</sub> emissions by 24,500 pounds. With incentives from the CSI-Thermal program, the payback is estimated to be less than 3 years. Mick mentioned that it was challenging to find an installer who had sufficient knowledge on details such as expansion tank sizing. Apricus ended up providing additional training on site and will consider using NABCEP certified installers in the future. Also, the DeltaSol DL/2 controller that was installed is not approved under the CSI-Thermal program, so it is being replaced. See [project overview](#), [1-page summary](#), [YouTube video](#)

#### 5) Update: U.S. Heat Meter Standard

[James Critchfield](#), EPA, Phone: 202-343-9442, updated the group on the U.S. heat meter standard being developed in conjunction with ASTM. Until recently, the committee planned to adopt European standard EN-1434 with some deviations but has now decided to develop a stand-alone U.S. standard. This will address concerns from U.S. manufacturers about getting their products tested to the European standard. It's estimated that the draft will be completed in the early spring, with balloting to follow shortly afterward. The new draft standard is available through the collaborative committee by contacting James C. via phone or e-mail. Also, see [ASTM Technical Committee E44 on Solar, Geothermal...](#) James also mentioned that EPA is launching a webpage on Renewable Heating and Cooling, and he will join a future SHC Alliance call to discuss it.

#### 6) Update: California CSI-Thermal Program

[Sarah Smith, Center for Sustainable Energy](#) provided an update on the CSI-Thermal program. In early February, the CPUC approved a petition submitted by CalSEIA and others in July 2014 to increase [CSI-Thermal Program Incentive Levels](#). The adjustments raise the rebate levels significantly. For example, the Step 1 incentive for single-family and commercial/multifamily systems were raised to \$29.85 and \$20.19 per therm displaced. In addition, the maximum rebate for commercial/multifamily systems was raised to \$800,000. A change was also made in the incentive allocation. Previously the budget was split between single-family (45%) and multifamily/commercial (55%, including pool heating). Under the new allocation, single-family will receive 10%, multifamily/commercial 60% and pool heating 30%. Last, pool heating incentives are capped at 50% of the project cost, a change supported by all stakeholders. A new handbook reflecting all these changes has been submitted by the program administrators and should be approved by March 29, with implementation in the database by the end of April. The new incentive levels are retroactive to July 23, 2014, so any application submitted after that date will be eligible.

#### 7) IAPMO/ANSI S1001 – Public Comments due March 9

[Les Nelson, IAPMO](#), couldn't join the call but requested this announcement. IAPMO/ANSI Standard S1001.4 is open for public comments until March 9. The standard was developed by a broad representation of industry, and the 45-day public comment period began on January 23 when the standard was published in the ANSI Standards Action. A copy of the standard is available at no

charge through the [IAPMO Public Review page](#). Also see the [Press Release](#) and [ANSI Review Draft BSR/IAPMO S1001.4-20xx](#).

## 8) SHC Alliance Update

[Katherine Stinken](#), [SEIA SHC Alliance](#) updated the group on the Alliance's recent activities.

- The election results for SHC Alliance Council were announced.
  - Chair - Mike Healy, Nextility\*
  - Vice Chair - John Alger, AET\*
  - Outreach Officer - Eileen Prado, SRCC
  - Rotating Members - Peter Bilss, SunEarth and Mick Humphreys, Apricus

\*These two positions represent the SHC Alliance on SEIA's board.

- The council plans to meet in late March to put together its plans, so please contact Katherine if you have input.
- On the federal front, work continues to have solar thermal added to the definition of renewable energy that would be eligible for the Federal Purchase Requirement of 20% renewables by 2020 that President Obama established in December 2013. Katherine S. met recently with staff of Shaheen (D-NH) and Portman (R-OH) who are reintroducing their energy efficiency bill again this term (See [press release](#) from March 11). SEIA is looking to have Capito, WV and Franken, MN as sponsors in the Senate. In the House, SEIA will be reaching out to Representatives Rush, IL and Shimcuss, IL, who supported the amendment in the last session.
  - In New York, SEIA has been in communication with NYSERDA, and the final rules for the 2015 program was just issued today (March 9). See [press release](#) and [updated incentive information](#). This program has a budget for fuel-neutral systems of \$3.4 million in addition to the \$4.3 million for the electric displacement program. Systems for space heating, space cooling and combi systems were not included under this program, though SEIA had requested those provisions. NYSERDA representatives will be joining the SHC Alliance call on Mon. Apr. 13 to discuss the details. For the proposed Clean Energy Fund program that will launch in 2016, SEIA will be filing comments by sometime in April.
  - In Massachusetts, [SB 2214](#), which adds solar and other thermal technologies to the state's AEPS, was passed by the legislature last summer. David O'Connor is SEIA's lobbyist, and he is working to make sure SHC is included appropriately and that AECs are allocated properly. Financing and multipliers are two other issues that are being discussed. SEIA is also hoping to insert a clause that will allow the incentives to be retroactive to January 1, 2015. Please contact [Katherine S.](#) if you would like to be involved in these discussions.
  - For SPI, a separate SHC pavilion is being planned. Marketing materials are being prepared and will be available from Katherine S. soon.
  - IEA contacted SEIA to request solar industry data. Les Nelson may be contacting members for information.
  - A Lobby Day for southeastern states is being planned for later this spring.

## 9) Program Updates: [GA](#), [WA](#)

## 10) Articles and Publications

- 1) [Global view: Solar Thermal Markets Transitioning from Residential to Commercial](#), Mar. 3, Barbel Epp, SolarThermalWorld.com; See [ISOL Navigator](#) at solrico.com
- 2) [Solar Thermal World Address Book 2015](#), Mar. 2, Sun & Wind Energy
- 3) [State Solar Jobs Census 2014](#), and [Solar Jobs Map](#), Feb. 12, The Solar Foundation
- 4) [2015 International Solar Energy Provisions \(ISEP\)](#), Mar. 2015, International Code Council/SRCC
- 5) [Solar Industry Prepares for Battle Against Koch Brothers' Front Groups](#), Feb. 20, Ken Johnson, SEIA
- 6) [The 50 States of Solar](#), Feb. 2015, NC Clean Energy Technology Center
- 7) [States with In-State Resource RPS Requirements](#), Nov. 12, 2014, NC Clean Energy Technology Center

- 8) [Easing the Transition to a More Distributed Electricity System](#), Feb. 2015, Erica McConnell, et. al., Interstate Renewable Energy Council
- 9) [A Homeowner's Guide to Solar Financing](#), Feb. 2015, Nate Hausman, Clean Energy States Alliance
- 10) [Solar Fred's Short Guide to Solar Marketing Brevity](#), Mar. 4, "Solar Fred" Valenza, RenewableEnergyWorld.com
- 11) [Will Solar Plunge Off the Tax Credit Cliff?](#), Feb. 20, Pamela Cargill, RenewableEnergyWorld.com
- 12) [Wind turbines and solar thermal installed on Eiffel Tower](#), Feb. 27, Sun & Wind Energy
- 13) [Various Publications, IEA Solar Heating & Cooling Program](#), Feb. 2015, IEA Solar Heating & Cooling Program
- 14) [Renewable Energy Prospects: United States, REmap 2030 Analysis](#), Jan. 2015, International Renewable Energy Agency (IRENA)
- 15) [Solar Heating and Cooling for Residential Applications](#), Jan. 2015, International Renewable Energy Agency (IRENA) as reported by Barbel Epp, SolarThermalWorld.com
- 16) [Solar Heat for Industrial Processes](#), Jan. 2015, International Renewable Energy Agency (IRENA) as reported by Barbel Epp, SolarThermalWorld.com
- 17) [Final Deliverable Report on Heat Rejection Systems For Solar Cooling](#), Nov. 25, 2014, Roberto Fedrizzi et. al, IEA Solar Heating & Cooling Program
- 18) [Researchers Discover New Material to Produce Clean Energy](#), Mar. 6, Jeannie Keever, RenewableEnergyWorld.com

#### 11) Upcoming Conferences & Webinars (updated for February 2015)

- 1) SEIA Webinars:
  - [Solar Sales Best Practices: From Lead to Close](#), Mar. 24, 2 p.m. Eastern (members only)
- 2) [2015 Renewable Energy Conference](#), Mar. 12, Westborough, MA, [Click here](#) for more information
- 3) [NABCEP Continuing Education Conference](#), Mar. 30-Apr. 1, Albany, NY; [Register online](#)
- 4) [4<sup>th</sup> Annual Southeast Clean Power Summit](#), Mar. 30-31, Atlanta, [See agenda](#) and [Register online](#)
- 5) [GTM Solar Summit 2015](#), Apr. 14-16, Phoenix; [See agenda](#) and [Register online](#)
- 6) [2015 Good Jobs, Green Jobs Conference](#), Apr. 13, Washington, D.C.; [See agenda](#) and [Register online](#)
- 7) [Solar Power Southeast](#), May 7-8, Atlanta, [See agenda](#) and [Register online](#)
- 8) [New York Solar Summit 2015](#), Jun. 10, 2015, John Jay College, New York
- 9) [Intersolar North America 2015](#), Jul. 14-16, 2015, San Francisco; [Preliminary inquiry](#)
- 10) [3rd International Solar District Heating Conference](#), June 17-18, Toulouse, France, [See agenda](#)
- 11) [Solar 2015 \(ASES\)](#), Jul. 28-30, Penn State, Pennsylvania, [Submit abstract](#) by Feb. 13
- 12) [Solar Power International 2015](#), Sept. 14-17, Anaheim
- 13) [SHC 2015, Solar Heating and Cooling for Buildings and Industry](#), Dec. 2-4, 2015, Istanbul, Turkey

#### 12) Other Program/Industry Updates

- [Shawn Martin, International Code Council \(ICC\), Solar Thermal](#) joined the call and asked for any additional questions.

#### 13) Date for Next SEIA SHC Alliance Meeting

- **Monday, Apr. 13, with a change to 4 p.m. Eastern.**

Chip Bircher



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