

**6TH TASK 54 EXPERTS MEETING &
DISSEMINATION WORKSHOP ADEME—
APRIL 24-26, 2018**

Agence de l'Environnement et de la Maîtrise de l'Énergie (ADEME)
Sophia Antipolis, 500 Route des Lucioles, 06560 Valbonne, France

PRELIMINARY AGENDA

Please register online via:

https://docs.google.com/forms/d/e/1FAIpQLSePzuiLc5eGF60YtN29hfpBP8HhoeNEA4XXcJ0qOZu-4_1kCw/viewform?usp=sf_link

Tuesday, April 24, 2018, 18:00 – 20:00, OA and Subtask Leader Meeting (place tba)

Accompanying Event:

April 23 – 24, 2018 «LCA Working Group» - Definition Workshop (more information sandrin.saile@ise.fraunhofer.de). The event starts on Monday afternoon (13:00) on April 23, 2018 and ends on Tuesday afternoon (13:00), April 24, 2018. The workshop is open to everyone interested in an international collaboration on the topic Life Cycle Assessment of renewable heating systems.

Tuesday, April 24, 2018

13:00 Lunch at restaurant “La Dolce Vita”¹

14:00 Welcome & Introduction by Operating Agent (Dr. Michael Köhl, Germany)

- Short recap of the work in the last months
- Preview of the upcoming months and end of Task 54 / wrap-up and publication of results will be in the focus of this meeting

Welcome by ADEME (Paul Kaaijk, ADEME)

¹ Invitation by ADEME, only registered participants. Please inform us if you won't be able to attend.
Address : **La Dolce Vita | Place Sophie Laffitte | 06560 Sophia Antipolis | phone : 04 83 15 52 83**

14:15 SUBTASK A (Dr. Michaela Meir, Norway)

Achievements with respect to Task 54 work plan (e.g. deliverables, other work)

A.1: Definition of solar thermal and conventional reference systems

- Possibility for presenting new reference systems (if any)
- Summary of final reference systems (Y. Louvet, Kassel University)

A.2: Cost tool definition, life cycle costs of reference and optimized systems

- Terminology, final reference systems info sheets (Y. Louvet, Kassel University)

A.3: Political, legal and social boundary conditions

- Presentation of info sheet (M. Meir, Aventa)
- Energy consultants and their role in the spread of solar thermal (S. Saile, Fraunhofer ISE)

15:20 Coffee Break & Group Picture (Room: „Patio“)

15:45 A.4: Market success factors

- Workshop on marketing best practices with ALL Task 54 experts in collaboration with Subtask D
- Info Sheet: Draft and finalisation (M. Meir, Aventa)

Preparation of Task 54 Finale (M. Meir, Norway)

- Topics for Position Paper
- Topics for final conferences

17:00 SUBTASK B (Dr. Stephan Fischer, Germany)

Achievements with respect to Task 54 work plan (e.g. deliverables, other work)

B.1: Definition of standardized components

- Update on standardised flat plate collector and heat store (S. Fischer, ITW/TZS)
- Standardised solutions for collector fittings (G. Hesse, Flexxibl)
- Cost reduction of solar thermal installations due to a standardized collector installing interface (W. Kramer, Fraunhofer ISE, Germany)

18:00 End of First Day

20:00 Task 54 Dinner (Restaurant “La Voûte²”)

² Invitation by ADEME. Only registered participants. Address : **Restaurant “La Voûte” | 7 rue Sade, 06600 Antibes, France | phone : +33 6 25 37 62 42**

Wednesday, April 25, 2018

08:30 Coffee in room "Patio"

09:00 **SUBTASK B (Dr. Stephan Fischer, Germany)**

B.2: Production Costs

Production costs and retail prices of selected components (S. Fischer, ITW/TZS)

B.3: Technical aftersales costs

- Maintenance costs for German solar thermal reference systems (F. Giovannetti, ISFH)
- Operation costs for German solar thermal reference systems (S. Fischer ITW/TZS)

B.4: Cost optimization of reference systems

- Cost reduction by standardization of components (S. Fischer, ITW/TZS)

B.5: New proposal for a 40 % Price Reduction

- Cost reduction by temperature limitation / ISFH (F. Giovannetti, ISFH)
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10:15 Coffee Break (room "Patio")

10:45 **Subtask B Workshop "Cost-Optimized 'Dream System'" (Chair: S. Fischer, ITW)**

In this workshop, participants of Subtasks A, B & C will join to combine all Task 54 innovations (from materials to components) to an ideal cost-optimized solar thermal system.

As preparation, please bring along the most relevant facts and figures for your innovation (e.g. technical requirements, manufacturing costs, life time, selling price (if available)). (approx. 1,5 hours)

Preparation of Task 54 Finale (S. Fischer, Germany)

- Topics for Position Paper
 - Topics for final conferences
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13:00 Lunch Break at restaurant "Café de Sophia"³ (buffet)

14:00 **SUBTASK C (Prof. Dr. Gernot Wallner, Austria)**

Achievements with respect to Task 54 work plan (e.g. deliverables, other work)

³ Invitation by ADEME. Only registered participants. Address : Café de Sophia | Place Sophie Laffitte, 06560 Valbonne| phone : 04 93 65 44 05

C.2: Material substitution and functional integration

- CNT - a black pigment for plastics based solar-thermal absorber? (M. Grabmann, JKU IPMT) (15 min)
- Qualification of PA grades for ICS - Effect of chlorine (P. Bradler, JKU IPMT)

C.3: Innovative, cost efficient processes and components

- Polymer based frames for collector systems (R. Buchinger, Sunlumo)
- Status of Overheat Controlled Collector Development and System Integration within SolPol-4/5 (A. Thür, UIBK)

Preparation of Task 54 Finale (G. Wallner, Austria)

- Topics for Position Paper
- Topics for final conferences

15:15 Coffee break (room "Patio")

15:45 SUBTASK D (Sandrin Saile, Germany)

Achievements with respect to Task 54 work plan (e.g. deliverables, other work)

D.1: Industry Liaison

- Short review of workshop of marketing best practices in Subtask A (D D.3)
- Preview of upcoming workshop on April 26, 2018 (D D.4) in the framework of ADEME national workshop
- Final presentation on installation survey and presentation of related info sheets (D. Mugnier, Tecsol)

D.2 Dissemination and Information

- D D.6.2 Review of second Task 54 newsletter
- Review of Task 54 Webinar as part of the IEA SHC Solar Academy
- Review of twitter campaigns, past publications & publication schedule
- Promotion of Info Sheets
- Further reviewed papers with Task acknowledgment
- Thementisch "Cost reduction" at Symposium Solarthermie (D. Philippen, SPF)

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- 17:00**
- Joint planning of Task 54 Finale
 - Task 54 Sessions at ISEC and Eurosun 2018
 - Task 54 Online LCoH calculation tool (Working group)
 - Task 54 Position Paper
 - Task 54 Final Report

17:30 Wrap- up by the Operating Agent (Dr. Michael Köhl, Germany)

- Short summary of the meeting
- Next steps
- Next meetings
- Any other business

18:00 End of meeting

20:00 Conference Dinner with Workshop Participants (restaurant “Brasserie Foch⁴”)

*Programme for ADEME Workshop on the following day, see next page.

⁴ Invitation by ADEME. Only registered participants Address: **Brasserie Foch | 20 boulevard Gustave Chancel, 06600 Antibes | phone : 04 93 33 69 29 / 06 78 27 74 99 .**

THURSDAY, APRIL 26, 2018 – FINAL DISSEMINATION WS – JOURNÉE R&D ADEME⁵

8h00 – Accueil in room “Amphi theatre”

8h30 – Programme SHC (Solar Heating and Cooling) de l’AIE

- 8h30 – 8h45 : Les différentes tâches du programme Solar Heating and Cooling de l’AIE : Daniel Mugnier
- 8h45 – 10h45 : Les principaux résultats de la Tâche 54 sur la réduction des coûts
- 08h45 : Solar thermal value chain and cost reduction potential (S. Fischer, ITW, Germany)
- 08h50: Retour d'expérience sur les coûts et les obstacles rencontrés lors de l'installation solaire thermique en Europe (D. Mugnier, France)
- 09h05 : Le LCoH appliqué au solaire thermique (Y. Louvet, Uni Kassel, Germany)
- 09h15 : Practical examples
 - Example 1: Cost reduction by standardization of components (S. Fischer, ITW, Germany)
 - Example 2: Cost reduction of solar thermal installations due to a standardized collector installing interface (W. Kramer, Fraunhofer ISE, Germany)
 - Example 3 : Reduction of production costs - Potential of process cost optimization (W. Kramer, Fraunhofer ISE, Germany)
 - Example 4: Cost reduction by temperature limitation (S. Fischer, ITW, Germany)
 - Example 5 : Reduction of production costs - Potential of polymeric materials (M. Meir, Aventa, Norway)
 - Exemple 6: Compétitivité des coûts du solaire thermique collectif (F. Veynandt, AEE INTEC, Austria)
- 10:30 Discussion

10h45 – Coffee break (room: „Amphi theatre“)

11h00 – Les mécanismes d’aide R&D : ADEME

11h15 – CETIAT : certification systèmes

11h30 – De la R&D au nouveau produit sur le marché : des exemples en France

- 11h30 – 11h50 : Système de production d'ECS solaire avec stockage en eau technique, production d'ECS instantanée et valorisation des excédents de chaleur dans le bouclage d'ECS : concept et résultats de mesures : **Sonnenkraft** (Guy Long)
- 11h50 – 12h10 : Optimisation du coût de la chaleur solaire : conception/ taux de couverture/ coût installé et mode de financement : **Eklor** (François Gibert)
- 12h10 – 12h30 : Station solaire adapté à l’utilisation de chauffe-eau traditionnel : **Stratoclaire** (Mr Thoméré)

12h30 – Déjeuner in room „Amphi theatre“ (buffet)

⁵ This event is French and English-speaking, individual registration for the workshop morning and afternoon block for Task 54 participants possible.

14h00 – De la R&D au nouveau produit sur le marché : des exemples en France

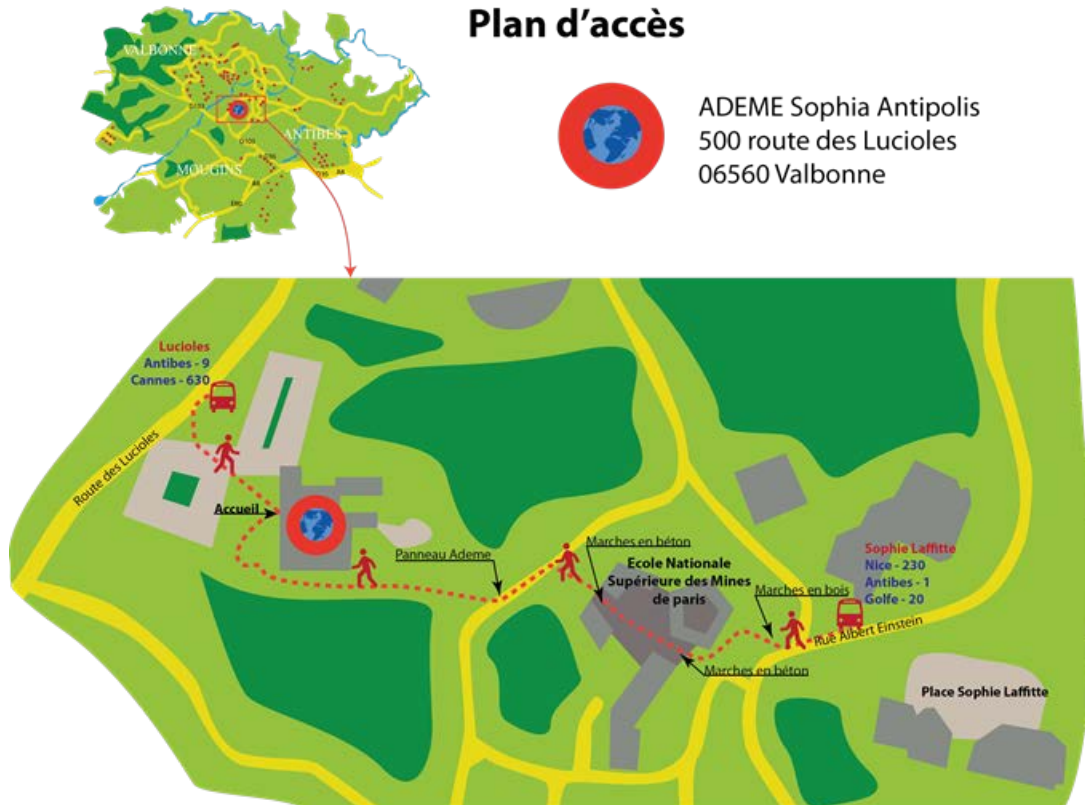
- 14h00 – 14h30 : La couche Thermprotect : limitation passive des surchauffes : **Viessmann** (N. Portha)
- 14h30 – 14h50 : 30% d'économie d'énergie supplémentaire par l'optimisation du pilotage de la résistance électrique d'appoint des CESI : **Centre PERSEE - MINES ParisTech / ARMINES** (Patrick Gatt, François-Pascal Neirac, Georges Kariniotakis)
- 14h50 – 15h10 : Capteur PVT à détente directe : **Li-Mithra** (Pierre Yves Torrent)
- 15h10 – 15h30 : Optimisation des capteurs PVT Eau : **Dualsun** (Laetitia Brottier)
- 15h30 – 15h50 : Tecsol One thermique et TECSOL Analytics thermique : supervision innovante pour les installations solaires : **Tecsol** (Tom Mathelin)
- 15h50 – 16h15 : Coffee break (room « Amphi theatre »)
- 16h15 – 16h45 : Table ronde : « Quelles innovations pour demain? »
- 16h45 – 17h00 : Synthèse de la journée et conclusion

17h – Fin

HOW TO REACH THE MEETING VENUE

Agence de l'Environnement et de la Maîtrise de l'Énergie (ADEME)

Sophia Antipolis, 500 Route des Lucioles, 06560 Valbonne, France



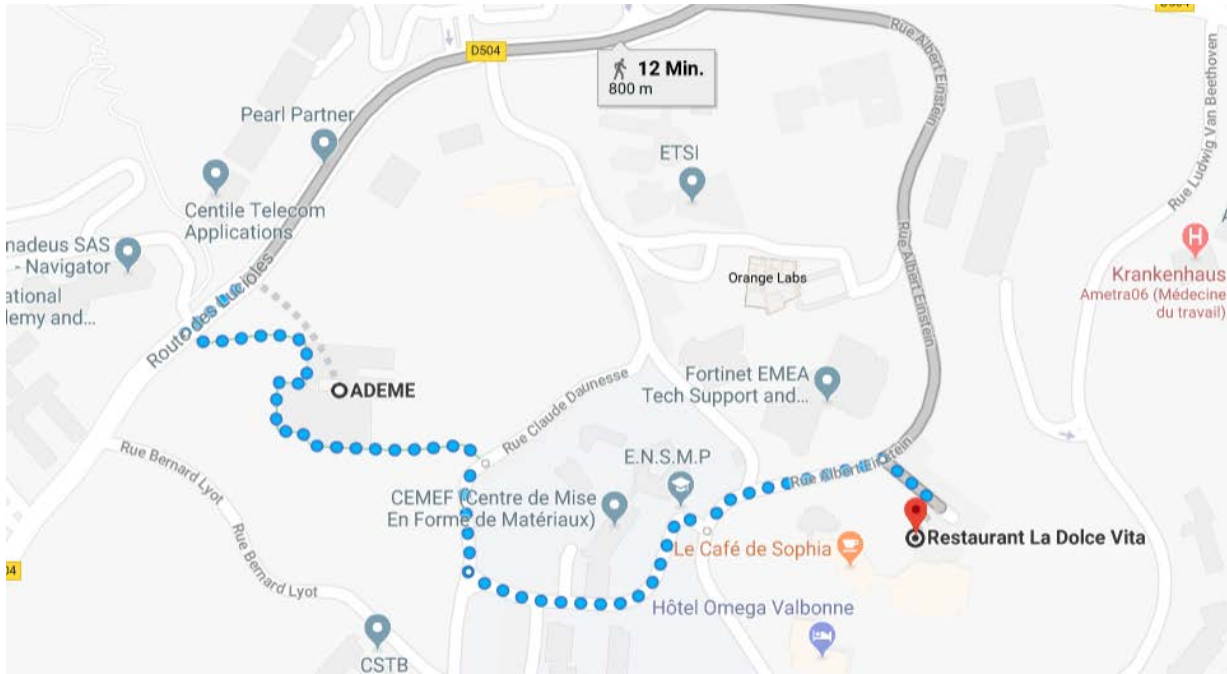
By bus

From Antibes take bus line 1 in the direction «Gare routière de Sophia-Antipolis» – Stop at «Place Sophie Laffitte» or bus line 9 in the direction of «Gare routière de Sophia-Antipolis», stopping at «Les Lucioles» (opposite ADEME).

LUNCH & DINNER LOCATIONS

Restaurant “Dolce Vita”

La Dolce Vita | Place Sophie Laffitte | 06560 Sophia Antipolis | phone : 04 83 15 52 83



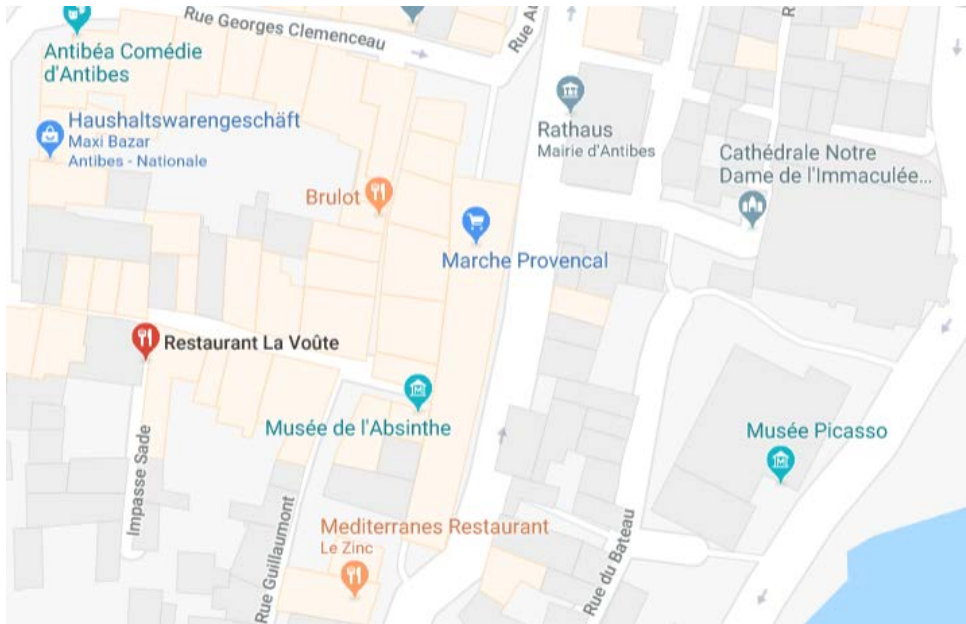
(approx. 10 mins walking distance from ADEME, source: google maps)

Restaurant “La Voûte”

“La Voûte” | 7 rue Sade, 06600 Antibes, France | phone : +33 6 25 37 62 42



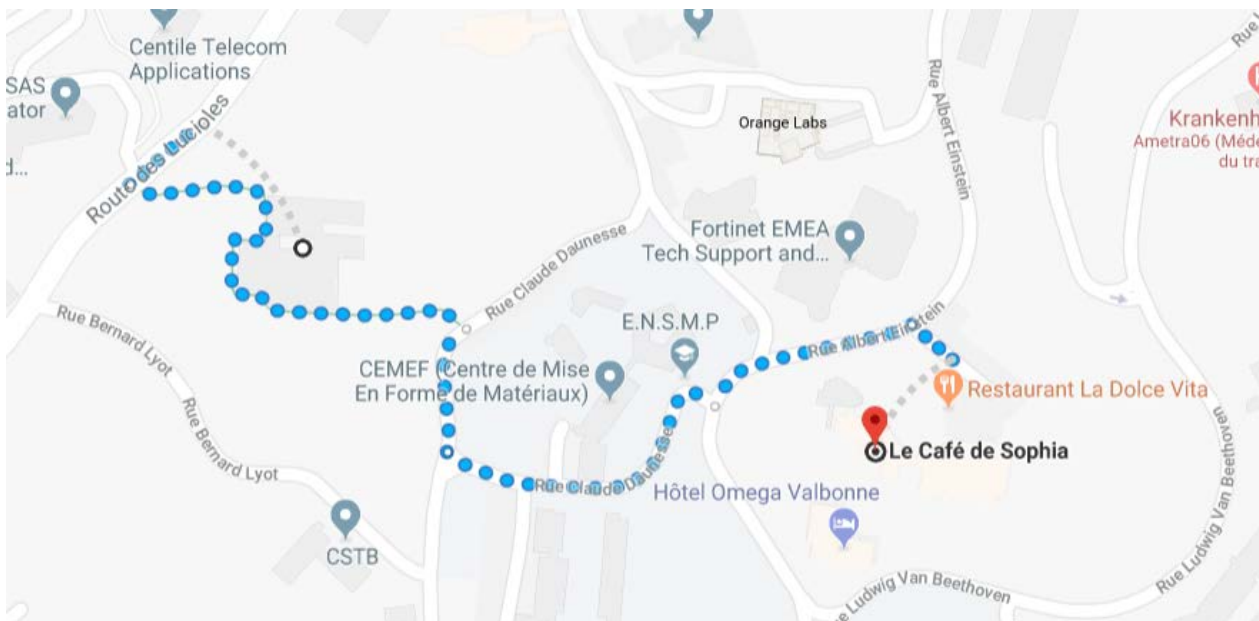
(source: google maps)



(in Antibes city center, next to the Picasso museum and Marche Provençal, source: google maps)

Restaurant “Café de Sophia”

Café de Sophia | Place Sophie Laffitte, 06560 Valbonne| phone : 04 93 65 44 05



(approx. 10 mins walking distance from ADEME, source: google maps)

Restaurant “Brasserie Foch”

Brasserie Foch | 20 boulevard Gustave Chancel, 06600 Antibes | phone : 04 93 33 69 29 / 06 78 27 74 99



(in the city center; source: google maps)