



**International Energy Agency  
Solar Heating & Cooling Programme**

**TASK 24 SOLAR PROCUREMENT**

**EXPERTS MEETING**

**Sunne, Sweden  
21 – 23 March 2001**

**MINUTES OF MEETING**

**Hans Westling  
Promandat AB  
Operating Agent**

International Energy Agency  
Solar Heating & Cooling Programme

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**TASK 24 SOLAR PROCUREMENT****Minutes of Experts Meeting 21 – 23 March 2001, Sunne, Sweden****CONTENTS**

1. INTRODUCTION AND PRESENTATION OF PERSONS PRESENT .....	1
1.1 Introduction .....	1
1.2 Presentation of persons present .....	1
2. APPROVAL OF AGENDA .....	2
3. MINUTES OF EXPERTS MEETING IN LUCERNE, SWITZERLAND, 2-4 OCTOBER 2000.....	2
4. PARTICIPATION PLANS .....	2
5. EFFORTS FOR RAISING INTEREST IN PARTICIPATION IN TASK 24 .....	2
6. UPDATING ABOUT CONTACTS AND DIALOGUES WITH SUPPLIERS .....	3
7. SHORT OVERVIEW OF THE CURRENT SITUATION IN THE DIFFERENT COUNTRIES – SUBTASK A.....	3
7.1 Switzerland .....	3
7.2 Denmark .....	4
7.3 Sweden .....	5
7.4 The Netherlands.....	6
7.5 Updated overviews.....	7
7.6 Summary of Subtask A activities including planning of coming work .....	7
8. ALTENER APPLICATION FOR FUNDING .....	7
9. WORK IN WORKING GROUPS .....	8
10. SUBTASK B .....	9
11. IEA SHC AWARD OF EXCELLENCE .....	9
12. WORKSHOP “SOLAR HEATING 2001 – EXAMPLES FROM EUROPE AND SWEDEN” .....	10
13. GENERAL INFORMATION ACTIVITIES ABOUT TASK 24 .....	10
14. OTHER INFORMATION.....	11
15. FOLLOW-UP OF TIME-SCHEDULE AND MILESTONES – TASK STATUS REPORT – AND MATTERS FOR EXCO CONSIDERATION .....	11
16. SCHEDULE FOR FUTURE TASK 24 EXPERTS MEETINGS .....	11
17. SUMMING UP .....	11
18. CONCLUSIONS AND THANKS.....	12
APPENDICES .....	12
DISTRIBUTION .....	14

Hans Westling  
22 April 2001

## **MINUTES OF TASK 24 "SOLAR PROCUREMENT" EXPERTS MEETING, 21 - 23 MARCH 2001, SUNNE, SWEDEN.**

### **1. INTRODUCTION AND PRESENTATION OF PERSONS PRESENT**

#### **1.1 Introduction**

Hans Isaksson and Matti Nordenström welcomed all the participants to the Experts Meeting in Sweden for Task 24 "Solar Procurement". Matti Nordenström especially expressed that he was honoured to have the possibility of hosting the meeting in Sunne, Värmland, a county in Western Sweden, where there are a number of programmes for the environment, energy efficiency, and renewable energy.

#### **1.2 Presentation of persons present**

Persons present were:

Jan-Olof Dalenbäck, Chalmers University of Technology, Sweden (part of the meeting);  
Klaus Ellehauge, Danish Technological Institute, Solar Energy Center, Denmark;  
Hans Isaksson, K-Konsult, Sweden;  
Björn Johansson, AB Enköpings Värmeverk, Sweden;  
Matti Nordenström, MAV, Sweden;  
Iben Østergaard, Danish Technological Institute, Solar Energy Center, Denmark;  
Peter Out, Ecofys Research and Consultancy, The Netherlands;  
Markus Portmann, BMP Sanitär und Energie, Switzerland;  
Mikael Rantil, Formas, Sweden's Executive Co-representative (part of the meeting);  
Christian Völlmin, SSES, Swiss Solar Energy Society, Switzerland;  
Johan Wasberg, Merinova Technology Centre, Finland;  
Heimo Zinko, ZW Energiteknik AB, Sweden (part of the meeting);  
Hans Westling, Promandat AB, Sweden;

Johan Wasberg was especially welcomed to the meeting as Observer from Finland. He is working at Merinova Technology Centre in Vasa, Northern Finland, and has mainly been working with innovation projects for energy efficiency, and renewable energy.

Excuses for not being able to participate at the meeting were sent by Torben Esbensen, Denmark. Doug McClenahan, Executive Committee Representative for Canada, had also sent excuses, informing that no Expert from Canada would participate. The intention is however to have Canada represented by an Expert at future meetings.

For further address details please see the Task 24 Address List, which was circulated for updating during the meeting, [Appendix 1](#).

## 2. APPROVAL OF AGENDA

A draft Preliminary Agenda, dated 28 February 2001, had been sent out before the Meeting, [Appendix 2](#). The Agenda was approved in principle. However, item 9 “What should be discussed in Working Groups” would be taken up later, which could influence the work during the meeting.

## 3. MINUTES OF EXPERTS MEETING IN LUCERNE, SWITZERLAND, 2-4 OCTOBER 2000

The Minutes, which had been sent out after the meeting, were approved by the participating Experts.

## 4. PARTICIPATION PLANS

*The Netherlands* is considering nominating an additional Expert, but this depends on the ongoing organisational change in NOVEM. As was mentioned earlier, *Canada* will, for the coming Experts Meeting, nominate an Expert with a suitable background. Concerns were expressed about securing appropriate funding for the future task-sharing efforts in *Denmark* and *Sweden*. *Denmark* is considering having another Expert replace Lotte Gramkow during her maternity leave.

It was also mentioned that the Swedish Council for Building Research has now merged with some other organisations into a large organisation called *Formas, the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning*. *Formas* will in future be the official participating organisation for Sweden in the IEA SHC Agreement.

## 5. EFFORTS FOR RAISING INTEREST IN PARTICIPATION IN TASK 24

*Finland* has expressed an interest in future participation in Task 24. Therefore, Finland was represented by an Observer at this meeting. The conditions are that a country is allowed to have an Observer present during up to two meetings without having to take a final decision.

Peter Out declared that interest had also been shown from *Belgium*, and a Letter of Intent is expected to be delivered during the coming months. There is a clear interest in one of the regions, the Walloon parts with French-speaking population. Peter Out expected that there would also be an interest in the other major region, Flanders, with Dutch-speaking population, and he hoped that there would also the third region, Brussels, would be interested.

The Experts expressed that it would also be of great interest to have *Germany* and *Austria* finally join the Task. Hans Westling informed that a special energy administration for the whole of Germany had been formed recently. It is called *die Deutsche Energi-Agentur GmbH (DenA)*, see [Appendix 3](#). There has been no such organisation in Germany earlier, and this could perhaps facilitate future participation in Task 24 from Germany.

Furthermore, the Experts expressed that it would be of interest if *countries in transition* could join the Task in a suitable form, for instance through a Memorandum of Understanding from the World Bank or another organisation for developing countries.

## **6. UPDATING ABOUT CONTACTS AND DIALOGUES WITH SUPPLIERS**

The “Tender Package” material had been distributed to the European organisations ASTIG and ESIF at the end of October 2000, with the hope of receiving answers before Christmas. Since no answers had been received from either organisation, reminders were sent out in February 2001. However, up to this meeting in March, no reply had been received from any of them.

The Experts decided to check whether perhaps there had been changes in the e-mail addresses. This was found to be the case for ASTIG. Consequently, the material was sent a third time – 21 March 2001 - to ASTIG under their new address, asking them for a quick answer. Hopefully, they will discuss the material at their upcoming Annual Meeting planned for 6 April. It is also important to get comments also from ESIF, so Hans Westling will forward the mails sent to ESIF to Jan-Olof Dalenbäck. *Addition:* This was done 2 April. At the coming ESIF Board Meeting, Jan-Olof Dalenbäck will try to remind them about giving their comments on the documents.

An updating of the tender forms will be made at the end of April if comments are received from the organisations ASTIG and ESIF.

*Addition:* An e-mail and letter was sent by Teun Bokhoven, ASTIG, to Hans Westling, 12 April 2001, see [Appendix 4](#).

A folder from ASTIG “Solar Thermal Markets in Europe (State of the Art and Projections)” from January 2001 was handed over at the Experts meeting and is included here, [Appendix 5](#).

Quality documents for manufacturers and installers are being worked out and will be discussed at the ASTIG Annual Meeting. Some documents were included in the Pre-Meeting Documentation. *Addition:* Two more draft documents were distributed by Peter Out 3 April by e-mail and are included here, [Appendix 6:1-3](#). At the same time, Peter Out distributed a presentation about the EU “Solar Keymark” quality label project, which is attached as [Appendix 6:4](#).

## **7. SHORT OVERVIEW OF THE CURRENT SITUATION IN THE DIFFERENT COUNTRIES – SUBTASK A**

### **7.1 Switzerland**

In Switzerland there are no subsidies for the moment on the central national level. There are however different support mechanisms to electricity companies in certain districts and cities, such as Basel and Zug.

The Swiss representatives informed about ongoing work. The “Solar roofs for the city of Zug” project has now been fulfilled. The “Passive houses in Senti Kriens” project had been closed. It could not be fulfilled because of lack of funding. The Swiss Solar Energy Society (SSES) is now planning an Internet-based project, the “SSES virtual buyer group”, and SSES has compiled a material “Dutzendweise Solaranlagen”, [Appendix 7](#), which describes, among other things, “Attraktive Konditionen durch gemeinsamen Einkauf” /Attractive conditions through common purchases/. An Internet portal, [www.solarpooler.ch](http://www.solarpooler.ch), will be set up and it will “als Zugang zu einer virtuellen Buyer Group dienen” /serve as admission for a virtual buyer group/. Now the Swiss Task 24 team is also developing a manual for the formation of buyer groups to help them establish complete project work. Workshops about the manual have been held with installers and manufacturers. The manual will, among other things, include instructions and checklists. Markus Portmann showed examples of “MussWunsch /mandatory and desired criteria/”, [Appendix 8](#), which, among other things, include “Deklaration der Kriterien, Funktion und Bewertungskriterien, Auswertung Präqualifikation der Anbieter”, etc. An information leaflet “Leistungs-Garantie zu unserer Offerte” from the “Energie 2000” Action Programme was also shown, [Appendix 9](#).

Some of the Swiss manufacturers and suppliers have expressed that they have a negative attitude towards the activities in Task 24 despite the fact that the meeting in Lucerne ended in a positive atmosphere. Special efforts have to be made to convince suppliers of the opportunities with the solar procurement initiatives. Hopefully, there will be a more positive situation with the suppliers in Switzerland before the next Experts Meeting.

The Swiss representatives also informed that there was a workshop with the Swiss Energy Board and the University of Lucerne some weeks before the Experts meeting. There have been projects both in the City of Zug and in the Canton of Zug, and in Lucerne and Zurich. There are also discussions going on with various utilities in different cantons and with companies, such as Flumrock (about insulation) and Ruesch (about solar equipment).

## 7.2 Denmark

The issue about an Expert, temporarily replacing Lotte Gramkow during her maternity leave, will be solved before the next Executive Committee Meeting. There has been some hesitation from Energistyrelsen (the Danish Energy Agency) about the Task 24 project. They want to see the results before deciding about future commitments.

Klaus Ellehauge and Iben Østergaard presented the ongoing work in Denmark.

It has been noticed that there is now a lower level of solar installations in Denmark, see [Appendix 10](#). Energistyrelsen is looking into the reasons for this and is also trying to find out what are the existing barriers for this drop. It has happened more on the PV-side. A new energy bill is also under preparation in the Danish parliament. There will be a solar heating duty for new buildings and renovation, except for privately owned houses. Hopefully, there will be a more positive situation when public buildings are required to be more energy efficient and to use renewable energy solutions. It would then be especially for individual houses outside district heating areas, and only if there is a sound economic situation, where up to twenty years pay-off time is acceptable. Now more ready-made systems are being discussed, including roof, ventilation, and solar installations.

The goal for the “Sol over Thy og Morsø” campaign, [Appendix 11](#), is 50 systems (from the planned 100-200 systems). Deliveries are made through Djurs Solvarme. So far, the campaign has sold about 20 systems, 8 of which are larger systems and the others mainly small systems.

Contacts with KFS Houses (a housing developer) have now resulted in KFS including solar systems as an option when they sell their houses. For medium-sized solar systems, contacts have also been established with a burger restaurant chain. The contacts with the NGOs have not yet resulted in any concrete actions.

There is also interest in Denmark in a “virtual” selling possibility, and here the planned work in Switzerland is of interest, see the material from Torben Esbensen, included in the Pre-Meeting Documentation and also included here as [Appendix 12](#). Iben Østergaard presented the plans for the Danish procurement buyer group on the Internet, see [Appendix 13](#). The project will consist of two parts: a competition and a price list. The project aims are to increase price and quality and to reduce sales costs. There will be four competitions in four regions and the competition will be for 2 – or perhaps 3 – categories. The winning systems will be described and marketed on the web site and the non-winning systems will be stated on a price list.

### 7.3 Sweden

The Swedish representatives informed about the projects for the large and small systems. The project for the *large systems* is aiming at installing 10,000 m<sup>2</sup>. The ongoing procurement has the goal of reaching binding orders for a minimum of 4,000 m<sup>2</sup>. So far, orders for a little more than 2,000 m<sup>2</sup> have been received. It has been difficult to find good projects. The standards are now being set and consulting support has also been offered. If the goal cannot be fulfilled, a decision may be taken not to continue the project. However, good results have been achieved and the specifications may be used in the future. There are discussions to have some sort of recognition in the way of naming some companies that have fulfilled the required criteria. The difficulty for the evaluation is of course to set the exact manpower used since this has not been included in the tenders. Since it is now possible to have a 20% subsidy, the above-mentioned 2,000 m<sup>2</sup> should be followed up with further contacts.

In Sweden, there are also some interesting *projects through* the utility *Vattenfall*, who has however decided not to join the Task. The liberalisation of the electricity market can mean that the different utilities want to prove that they have a more competitive approach than their colleagues have.

As for the *small systems*, the winner of the competition was announced at a press conference 16 March 2001, see [Appendix 14](#). The winning system “*Uposun HW 300*” is a new light-weight, corrosion-free construction, which to large parts can be made of recycled plastics. There was also an article about the competition and the winning solution in “*Svenska Dagbladet*”, one of the major daily newspapers in Sweden, [Appendix 15](#), and in some other magazines, [Appendix 16:1-2](#).

Hans Isaksson informed that the competition was met with a large interest. About 13 tenders were received, and 10 of them were given the opportunity of sending in prototypes for testing of their systems. The testing was carried out by the Swedish official testing institute, SP, Swedish National Testing and Research Institute located at the town of Borås in Southern

Sweden. It was possible to reach the goals: system cost of 16,000 SEK, a performance of 40-50 % of the total energy and easier to install the system. An important issue in the competition was that the winner should be capable of delivering the systems all over the country.

The winning company, Uponor, is a large organisation, who aims at reducing the manpower for the installations. They have the capacity of delivering systems to the whole of Sweden. They have earlier been working in similar areas with heat pumps, and they have good contacts with many installers. Later during the Experts meeting, at the Workshop on 22 March, Uponor was given a special statue as a symbol of winning the competition. There is a list of 1,800 interested buyers, and Uponor has agreed to deliver 1,000 systems in the coming year. The installation is to be carried out within two man-days. A payback time of between 7-8 years has been shown, which will go down to 3-5 years with the subsidy that is offered at the moment. There will be a follow-up of installations in five houses before the serial production will start. The deliveries will start before the summer.

#### 7.4 The Netherlands

Peter Out informed about the ongoing national activities and the status of the buyer groups. Copies of Peter Out's presentation are attached as [Appendix 17](#). There are now buyer groups for domestic systems - for existing dwellings and new housing development - and also for medium-sized systems. As to domestic systems in existing dwellings, Peter Out informed about the *SOL\*id*, the *ASN Bank* and the *WWF* projects and the *SOLHAS* project for housing associations.

The *SOLHAS survey project* started together with the umbrella organisation of all housing associations in The Netherlands and its counterparts in nine other European countries. It aims at providing solar water-heating products and services for European housing associations. Enquiries in different languages will be sent out and procedures will be taken to approach the housing association sector, branch and housing associations. The first results of the *SOLHAS* survey in The Netherlands showed that solar water heating is important for saving energy and the environment. More than 80% of the persons answering the survey thought that solar energy will improve the image. The acceptable life payback-time is 12 years (+/- 5 years). There are some "bottlenecks": payback-times, initial investment, uncertainty about quality and lifetime. Other "bottlenecks" not yet perceived may be reluctance from tenants and installers and questions about building permits. Important marketing requirements will be guaranteed energy performance, payback-time within 10-15 years and some government subsidies or tax credits. Important marketing propositions are: CO<sub>2</sub> and energy reduction, guarantees on quality and performance and reasonable payback-times. 80% of the survey answers stated that they want more information, 66% want workshops and information meetings, and 41% want to join buyer groups for procurement.

For domestic systems in new housing development there is the *Essent SolarBuild* project. This ongoing project is an approach for the complete Essent supply region. The goal is to install 1,200 systems. Up to now, 599 systems have been contracted, and 808 are "in the pipeline". Expected results will be 47 projects, and 1,400 solar water-heaters.

As to the medium-sized systems, the "*Space for Solar*" initiative is running. It is a project for housing associations and rest homes with 59 participating organisations and a portfolio of

more than 100 projects with a total of 20,000 m<sup>2</sup>. Phase 1 included a turnkey tender of 10,000 m<sup>2</sup> which was published in December 2000 and which is now being evaluated.

Peter Out also informed about the *Soltherm Programme*. In this Dutch government programme there is also participation from *Belgium* (the Walloon parts and Brussels). The goal is to realise 50,000 solar water heaters until the year 2010, 3,000 of which until 2002. Important things are quality control, subsidies, and promotion. Procurement is planned for the social housing sector in the next years.

Information was given about *EPA – Energy Performance Advice* – which is planned in The Netherlands and which will be coupled with a new incentive bonus system. Standardised advice will be given at a fixed cost of 160 Euro. When the advice has been applied, the cost for the EPA will be returned, and a bonus will be given for each of the following measures: installation of solar water heaters, PV installation, and ventilation or floor insulation.

## 7.5 Updated overviews

Updated overviews of the different national projects are included in [Appendix 18](#).

## 7.6 Summary of Subtask A activities including planning of coming work

Peter Out made a summary of the different national activities and the planning of the activities in 2001, see [Appendix 19](#). It is important to decide about “go or no go” and what Subtask A activities to realise during the Second Round. For Subtask B, the work will include the Midterm Evaluation and updating of the Book of Tools.

For the realisation of projects synergy can be achieved for:

- *Domestic systems for existing buildings*: Sweden, Denmark, The Netherlands, Switzerland, Canada and Belgium show a clear interest and can work with solar water-heater campaigns.
- *Domestic systems for new housing development*: Projects in The Netherlands and Belgium.
- *Medium-sized systems*: Projects in The Netherlands, Sweden, Belgium and perhaps Switzerland.
- *Internet buyer group projects*: Switzerland and Denmark and based on experiences in Sweden.

## 8. ALTENER APPLICATION FOR FUNDING

An application to the *Altener/SAVE programme* for funding will be prepared. Peter Out will be responsible for this application. The deadline for submissions is 31 May 2001. Hopefully, with the “Solar Boost Plan”, which will include the web site sales and SOLHAS survey, the application will be met with success this time.

## 9. WORK IN WORKING GROUPS

After discussions, the Experts decided that the *Evaluation of the First Round* would be the main theme for the work in different working groups. It was decided that it is important to use this time to get national input for the evaluation formats. Klaus Ellehauge made a presentation about the elements to be included in the Evaluation Report, see [Appendix 20](#).

There would also be *discussions about questionnaires and manuals* for housing organisations.

It was decided that another working group theme would be the *Second Round buyer groups*, which would include web site sales and Swiss manual.

After the working group activities, the Experts decided as follows:

Regarding the *web site sales*:

- Denmark will start developing the project.
  - All Experts would comment on the plans and send relevant information to each other.
  - All Experts were urged to send relevant Internet links to each other.
- Addition:* Some Internet web site addresses were distributed by Peter Out 2 April, see [Appendix 21](#).

For the web site sales, the “who has what” is as follows:

- The Netherlands and Belgium: Mysolar, Soltherm and Space for Solar projects
- Denmark: Solenergi (components, systems, installers, dimensioning) and installation prices.
- Switzerland: SOFAS (manufacturers), SSES (information), Swiss Solar, SPF (system and dimensioning), Solarpooler (buyer groups).
- Sweden: Värmland, SEAS (suppliers and installers), SP (systems, installers).
- France: Do-it-yourself, information and dimensioning.

Regarding the *Swiss manual*:

- Comments would be sent in before 15 April.

For the *SOLHAS* survey project the following actions were decided.

- Send enquiries.
- Switzerland will decide by 15 April whether they will participate or not.
- Hans Westling will send material to a group of housing associations in Sweden (will be distributed during a meeting on 20 April).
- Denmark will also check participation by 15 April.
- Peter Out will send a last version for comments by the end of April.

For the *medium-sized systems*, the *Space for Solar* initiative will continue as follows:

- Continued co-operation in Belgium and in The Netherlands.
- The other countries were urged to keep this initiative in mind for possible further collaboration.

For the *Midterm Evaluation* it was decided:

- National reports have to be sent in to Klaus Ellehauge and Iben Østergaard by 20 April at the latest.

For the “*Solar Boost Plan*” it was decided:

- Web site sales and Solhas will be integrated in the plan.
- Peter Out will contact Michael Rantil about the possibility for Sweden to join.
- Peter Out will also contact Klaus Ellehauge and Iben Østergaard.

Hans Westling raised the question whether the *Danish Electricity Saving Trust* and the “*A-Club*” could be interesting formats for work and inspiration.

In the Second Round of Procurements, there will be some similarities in structures of the projects and some parts of the documentation and Requests For Proposals (RFP) should be identical or similar.

Denmark plans 5 competitions in 5 regions. Also the Danish consumers' organisation would be of interest.

## **10. SUBTASK B**

Klaus Ellehauge made a short presentation about Subtask B activities, see [Appendix 22](#). The main activity is the Midterm Evaluation, which was discussed as a major working group item.

As mentioned earlier, the national reports for the *Midterm Evaluation* should be sent in by 20 April at the latest to Klaus Ellehauge for his compiling of the Report. The Evaluation Report is then to be sent to Hans Westling by 4 May at the latest to be included in the Task Status Report to the Executive Committee.

*Addition:* Work on the Evaluation Report was delayed. The final version, [Appendix 23](#), was ready 7 June 2001. It was distributed the same day by e-mail to the Executive Committee Members and Task 24 Experts.

The *Task 24 web site* should be updated. Some new cases are asked for as a result of the experiences from questions and answers about Task 24. Parts of the Evaluation Report will be put on the web site later.

## **11. IEA SHC AWARD OF EXCELLENCE**

Hans Westling informed that he had made a presentation about the Award at the last Executive Committee Meeting in November 2000. The Executive Committee then decided that this could be an Award for the whole SHC Agreement and that Task 24 could be the first Task to use the Award. Furthermore, it was decided that the SHC Information and Marketing Group would prepare a new proposal for the upcoming Executive Committee Meeting. There were also discussions whether sponsors could be used for the funding of the Award. Now there is lack of funding. A decision must be taken in June 2001, at the latest, in order to make preparations possible for an Award Ceremony at the “*ISES World Solar Congress 2003*” in Gothenburg, Sweden.

Hans Westling will discuss this item with Michael Rantil, who will then contact Fritjof Salvesen and Peter Out will speak to Lex Bosselaar about this. There will be an exchange of information around 15 May and a proposal will be made to the Executive Committee.

## **12. WORKSHOP “SOLAR HEATING 2001 – EXAMPLES FROM EUROPE AND SWEDEN”**

On the afternoon of 22 March there was a special Workshop “Solar Heating 2001 – Examples from Europe and Sweden” with attendance of among others representatives of Swedish solar organisations and county councils, energy advisors and the Task 24 Experts.

The programme including a list of the participants is attached as Appendix 24. Presentations were held by Jan-Olof Dalenbäck, see Appendix 25, Peter Out, Hans Isaksson, see Appendix 26, and Michael Rantil, Sweden’s Executive Committee representative. Peter Kovács, SP, the Swedish National Testing and Research Institute, who was the leader of the Task 24 tests of the small systems also presented the outcome of the testing, see Appendix 27.

It was decided that the workshop presentations were to be gathered by Matti Nordenström and that Peter Out would burn a CD.

MAV’s journalist Jan Kallenberg has written a couple of articles (in Swedish) about the workshop, see Appendix 28. They can be found at:

[http://213.180.65.139/www/lopsedel.html?a\\_id=&g\\_id=&e\\_id=&h\\_linkid=134&subid=](http://213.180.65.139/www/lopsedel.html?a_id=&g_id=&e_id=&h_linkid=134&subid=)

## **13. GENERAL INFORMATION ACTIVITIES ABOUT TASK 24**

The Experts decided that presentations and text proposals are to be sent to Iben Østergaard end of May at the latest for her compilation of the *Task 24 Newsletter*.

Information was given about the upcoming “*Northsun 2001*” conference on Solar Energy in Buildings in Leiden, The Netherlands, 6-8 May 2001, see Appendix 29. Jan-Olof Dalenbäck and Peter Kovács will present a paper, “Swedish SDHW System Procurement Competition – Description and Experiences”, see Appendix 30. Peter Out will also have a short presentation.

Presentations about Task 24 could also be given at upcoming *PV events*.

The “*ISES 2001*” conference will be in the autumn of 2001 in Adelaide, Australia. If somebody is planning to go there, please bring information about our activities, brochures, newsletters, posters, or also presentations.

Iben Østergaard will send information about *event calendars* for everybody.

Iben Østergaard, who is a representative of the OPET organisation, will take up further discussion about collaboration with OPET.

*Addition:* Hans Westling has contributed with an article about Task 24 to the upcoming “Solar Update” Newsletter.

## 14. OTHER INFORMATION

A list of new publications from the IEA Solar Heating & Cooling Programme is included as [Appendix 31](#).

## 15. FOLLOW-UP OF TIME-SCHEDULE AND MILESTONES – TASK STATUS REPORT – AND MATTERS FOR EXCO CONSIDERATION

An updated version of the “Book of Tools” ready at the year end 2000/01 which means that the Milestone B3 – Book of Tools – Updated 2<sup>nd</sup> edition in draft - can be said to have been fulfilled - not as a book but updated as a part of the web site.

The next milestone B4 – Evaluation of the First Round – should have been ready in February but should now be ready in May to be included in the Task Status Report for the upcoming Executive Committee Meeting. *Addition:* It was ready early June.

There were also discussions about the updating of the *web site* in the future, whether it should stay with Canada or should go to Denmark. Hans Westling will raise this question for consideration by the Executive Committee. Hans Westling will also express concern about the *national funding* in some of the countries, which is essential to get the most out of the joint project.

*Addition:*

The Task Status Report was sent by e-mail to the SHC Executive Committee Members and Task 24 Experts on 30 May 2001, see [Appendix 32](#). The Evaluation Report was sent separately, see above.

## 16. SCHEDULE FOR FUTURE TASK 24 EXPERTS MEETINGS

The next Experts Meeting will take place 26 - 28 September 2001, in *The Netherlands*.

The following Experts Meeting will be held 20 - 22 March 2002, probably in Denmark, but could also be in Finland, if Finland joins Task 24.

## 17. SUMMING UP

Hans Westling summarised the impression from the meeting and found that there were very good examples of how the collaboration has been inspired. This should definitely be shown in the Evaluation Report in the form of a matrix for certain areas, as is shown in the attached document, [Appendix 33](#). This means that the overall goals have been reached with Task 24.

The interest in solar activities has been raised, but there has also been some concern and some criticism from suppliers. This is however nothing special for the solar field. It has been exactly the same situation in many of the other areas where Hans Westling has been involved in

development activities. In the long run, these activities create new interest from governments, from different kinds of buyers and from society as a whole. This will be in the interest of the whole industry as it also increases the interest in using more renewable solutions.

Action points for the coming Task 24 work is summarised in Appendix 34.

## 18. CONCLUSIONS AND THANKS

Hans Westling thanked Sweden, MAV and especially Matti Nordenström for the excellent preparations and arrangements for the Experts Meeting. The Experts Meeting was then adjourned.

## APPENDICES

1. Task 24 Address List, updated 22 April 2001.
2. Preliminary Agenda for the Experts Meeting in Sunne, Sweden 21-23 March 2001. Draft dated 28 february 2001.
3. Information about *die Deutsche Energi-Agentur GmbH (DenA)* from Pressestelle UmweltBundesAmt 29.12.2000.
4. Letter from Teun Bokhoven, ASTIG, 12 April 2001, to Hans Westling.
5. *Solar Thermal Markets in Europe (State of the Art and Projections)*, folder from ASTIG, January 2001.
6.
  1. E-mail from Peter Out 3 April with draft quality documents:
  2. *Solar Water Heaters – Suggested Code of Conduct for High Quality Installation*
  3. *Quality Charter for the Supply of solar water heaters – Suppliers Declaration.*
  4. *Solar Keymark – Kicking off the good circle.* Presentation by Jan Erik Nielsen, Solar Energy Centre, Technological Institute, Denmark, about the EU quality label project.
7. *Dutzendweise Solaranlagen*, Energie Innvation, information material from the Swiss “Energie 2000” Action Programme.
8. *MussWunsch* /mandatory and desired criteria/, examples of the Swiss Declaration of Criteria.
9. *Leistungs-Garantie zu unserer Offerte*, information leaflet from the Swiss “Energie 2000” Action Programme.
10. *Installed solar heating systems in Denmark*, copies of transparencies presented by Klaus Ellehauge at the meeting.

11. *Thy Morsø Utilities*, copies of transparencies presented by Iben Østergaard at the meeting.
12. *Overview of Danish Projects*. Torben Esbensen, 08.03.2001.
13. *Plan for organisation of Danish procurement buyer groups on the Internet*, copies of transparencies presented by Iben Østergaard at the meeting.
14. *Nu är "folksolfångaren här! Västgötaföretaget Uponor vann tävlingen. /Now the "popular" solar collector is here! / Press release about the winner of the competition for small systems in Sweden. 2001-03-16.*
15. *Nytt system kan göra solfångare heta /New system can make solar collectors hot/*, article in Svenska Dagbladet, one of the major Swedish daily newspapers, 20 March 2001, about the winner of the competition for small systems in Sweden.
16. Articles about the winner of the competition for small systems in Sweden:
  1. *Lätt solfångare vann tekniktävling /Light-weight solar collector won the technology competition/* in Energi & Teknik, no. 2, 2001.
  2. *"Folksolfångare" för villaägare /The popular solar collector for house owners/* in Byggindustrin 12/2001.
17. *Sub task A: Work until now – National activities*, copies of transparencies presented by Peter Out at the meeting.
18. *IEA SHC Task 24 Solar Procurement – Overview of National Projects*, from Task Status Report, May 2001.
19. *Planning 2001*, copies of transparencies by Peter Out from the meeting.
20. *Presentation about the Evaluation*, copies of transparencies presented by Klaus Ellehauge at the meeting.
21. E-mail from Peter Out 2 April 2001 with his contribution of *website sales links*.
22. *Activities Subtask B*, copies of transparencies presented by Klaus Ellehauge at the meeting.
23. *IEA task 24 Active Solar Procurement – Evaluation after the 1<sup>st</sup> round 1998-2001*, report drawn up by Klaus Ellehauge, dated May 2001.
24. *IEA Workshop Programme 2001-03-22 "Solar Heating 2001, Examples from Europe and Sweden"*.
25. *Swedish solar heating in a European perspective*, copies of transparencies presented by Jan-Olof Dalenbäck, Chalmers, at the Workshop 22 March 2001.
26. Copies of transparencies (in Swedish and English) about the *Swedish competition for small systems* presented by Hans Isaksson at the Workshop 22 March 2001.

27. *SP Swedish National Testing and Research Institute – System testing of the solar DWH systems* (from the Swedish competition), copies of transparencies presented by Peter Kovács, at the Workshop 22 March 2001.
28. First page of the *web site with articles about the Workshop 22 March 2001* written by MAV's journalist Jan Kallenberg.
29. *Northsun 2001*, information about the conference 6-8 May 2001 in Leiden, The Netherlands.
30. *Swedish SDHW System Procurement Competition – Description and Experiences*, paper by Jan-Olof Dalenbäck, Chalmers, and Peter Kovács, SP, presented at the Northsun 2001, 6-8 May 2001, Leiden, The Netherlands.
31. *New Publications from the IEA Solar Heating & Cooling Programme*.
32. *Task 24 Solar Procurement – Task Status Report, May 2001*, drawn up by Hans Westling.
33. *Matrix – Areas for Task 24 Collaboration*, drawn up by Hans Westling at the meeting.
34. *Action Points* (including Working Group Themes) drawn up by Peter Out at the meeting.

## **DISTRIBUTION**

These Minutes are distributed to the Experts on the Task 24 Address List, [Appendix 1](#).