



## Solar Certification Fund Projects

### *Reports and deliverables*

ID	Project name	Deliverables	Documents
1C02a	Check 12976-Fraunhofer	Final project report	<a href="#">1C02-SCF_Check 12976-status_2012_March.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Physical Inspection report for compact systems</li> <li>• D.2 Physical Inspection report for compact system families</li> <li>• D.3 Physical Inspection report for split systems (store, collector, other parts)</li> <li>• D.4 Factory inspection report</li> <li>• D.5 Physical Inspection report for FPC</li> <li>• D.6 Physical Inspection report for ETC</li> <li>• D.7 Physical Inspection report for FPC-families</li> <li>• D.8 Physical Inspection report for ETC-Families</li> </ul>	<a href="#">1C02-D-SKN_N0106R5annexA2-R1 [procedures for physical inspection of products]</a>
			<a href="#">1C02-D-SKN_N0132R1 [inspection report]</a>
			<a href="#">1C02-D-SKN_N0204R0 [Guide to the Solar Keymark Factory Inspection Report]</a>
1C04a	EN13203-3 solar-SWT	Final project report  <ul style="list-style-type: none"> <li>• D.1 An evaluation report of the current standard</li> <li>• D.2 An evaluation report of the Eco-design lot 1</li> <li>• D.3 Action plan for the revision/addition of the EN 13203-3</li> <li>• D.4 Simulation model for the energy consumption of the gas-fired appliances</li> <li>• D.5 Simulation model for the energy consumption of the thermal solar system</li> <li>• D.6 First draft proposal of the revised standard including the new procedure</li> <li>• D.7 Presentation of the first draft proposal to ESTIF/SKN</li> <li>• D.8 Second/final draft proposal of the revised standard</li> <li>• D.9 Presentation of the final drafts to the CEN/TC 109</li> </ul>	



1C07a	Legio2010- vAConsult	Final project report	<a href="#">1C07-SCF_Legio2010-status_2012_March.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Review of the risk of Legionella growing in solar heated water systems</li> <li>• D.2 Outline of a technical report and a letter of recommendation to the TC164</li> <li>• D.3 Outline of relevant (extra) criteria aimed at thermal solar systems</li> <li>• D.4 Recommendations on how to proceed including consideration of the need for any further research</li> </ul>	<a href="#">1C07-A-Legio2010_CoP Solar thermal Legionella Final Draft</a>
1C09a	SK 12977- PlanEnergi	Final project report	<a href="#">1C09-SCF-SK12977-Final-report2012-October.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Draft of specific Solar Keymark scheme rules to be presented to ESTIF S&amp;C WG</li> </ul>	<a href="#">Proposal for Specific CEN Keymark Scheme Rules for Solar Thermal Products: SKN_N0192R6.pdf</a>
		<ul style="list-style-type: none"> <li>• D.2 Webinar with ESTIF S&amp;C WG (September 2011)</li> </ul>	<a href="#">Final draft of specific Solar Keymark scheme rules to be presented to CEN Certification Board: SKN_N0106R17.pdf</a>
		<ul style="list-style-type: none"> <li>• D.3 Elaborated draft of specific Solar Keymark scheme rules to be presented to SKN (October 2011)</li> </ul>	<a href="#">Assortment file for the range of custom build systems available: Draft Assortment file.pdf</a>
		<ul style="list-style-type: none"> <li>• D.4 Final draft of specific Solar Keymark scheme rules to be presented to CEN Certification Board (CCB) (Autumn 2011 or spring 2012)</li> </ul>	<a href="#">Draft performance test report: Draft EN12977-2 QPLP 1.2.pdf</a>
1C10b	CE 2010-SWT	Final project report	<a href="#">1C10B_CE 2010-status_2013_February</a>
		<ul style="list-style-type: none"> <li>• D.1 First draft proposal for criteria/requirements for structural loads (snow, wind); fire safety; weather tightness</li> </ul>	<a href="#">D.1 and D.2 EN 12975-1 DRAFT 20110202</a>
		<ul style="list-style-type: none"> <li>• D.2 First draft proposal for harmonised "Annex ZA" for EN 12975</li> </ul>	<a href="#">D.3 and D.7 Meetings with ESTIF S&amp;C WG</a>
		<ul style="list-style-type: none"> <li>• D.3 Webinar/meeting with ESTIF S&amp;C WG on the two drafts above</li> </ul>	<a href="#">D.4 SKN_N0191R0</a>
		<ul style="list-style-type: none"> <li>• D.4 Presentation to SKN</li> </ul>	<a href="#">D.5 and D.6 EN 12975-1 DRAFT</a>
		<ul style="list-style-type: none"> <li>• D.5 Second draft proposal for criteria/requirements for structural loads (snow, wind); fire safety; weather tightness</li> </ul>	<a href="#">D.8 and D.9 EN 12975-1 DRAFT 2012-12-08</a>
		<ul style="list-style-type: none"> <li>• D.6 Second draft proposal for harmonised "Annex ZA" for EN 12975</li> </ul>	<a href="#">Extra Deleiverable solar-collector-ped-common-understanding-final rev lowpressure.pdf</a>
<ul style="list-style-type: none"> <li>• D.7 Presentation of the drafts to the QAISt project</li> </ul>			
<ul style="list-style-type: none"> <li>• D.8 Final draft proposal for harmonised "Annex ZA" for EN 12975</li> </ul>			
<ul style="list-style-type: none"> <li>• D.9 Presentation of final drafts to the CEN TC 312 WG1</li> </ul>			



1C12b	SK Update-SP	Final project report	<a href="#">SCF_12-B-SK Update-SP Final report – February 2013.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 An “advanced” reference list describing briefly the five-ten most relevant standards for seals and gaskets in solar collectors</li> <li>• D.2 A guideline to testing and materials’ selection for seals and gaskets in solar collectors</li> </ul>	<a href="#">1C12b-Guideline for sealings in solar thermal collectors.pdf</a>
1C14c	GloboCert-PlanEnergi	Final project report	<a href="#">1C15-SCF_SK TC164 2010-status_2012_March</a>
		<ul style="list-style-type: none"> <li>• D.1 Proposal for global certification scheme for collectors</li> </ul>	<a href="#">1C14-DEL-Solar Q Mark 01 [Global Certification Scheme for Solar Thermal Collectors – draft rules]</a>
			<a href="#">1C14-DEL-Nielsen_GlobalCertification_SHC_2012 - JG01_LN01 [Abstract SHC2012 - Towards global certification of solar collectors]</a>
1C01c	SK TC164:2010-vAConsult	Final project report	<a href="#">1C15-SCF_SK TC164 2010-status_2012_March.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Contribution the processes in TC164 with respect to Legionella from the interests of the solar thermal community</li> <li>• D.2 Up to date the CEN/TC312 and the solar community on the issues of TC164</li> </ul>	<a href="#">1C15-Final report SK TC164_2010 [Contribution to the processes in TC164 with respect to Legionella from the interests of the solar thermal community]</a>
2C02a	Pcalc-SP	Final project report	<a href="#">2C2A-SCF_Pcalc final 2012_08.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 A new version of the Excel tool enabling energy output calculations for solar air collectors and PVT collectors</li> <li>• D.2 An updated version of the program manual</li> </ul>	<a href="#">2C2A-D1.-ScenoCalc v3.10d.rar</a>
			<a href="#">2C2A-D2.- A Tool for Standardised Collector performance calculations SHC 2012 ver 120412.pdf</a>
			<a href="#">2C2A-D2.-Description of ScenoCalc v3.10d.pdf</a>



2C02b	SK-LCMS-Demokritos	Final project report	<a href="#">2C2B-SCF II-Final Report.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Draft of specific Solar Keymark scheme rules to be presented to ESTIF S&amp;C WG</li> <li>• D.2 Elaborated draft of specific Solar Keymark scheme rules to be presented to SKN</li> <li>• D.3 Elaborated draft report on the modeling tools for the prediction of energy output, to be presented to SKN</li> <li>• D.4 Final draft of specific Solar Keymark scheme rules and modeling tools to be presented to CEN Certification Board (CCB)</li> </ul>	<a href="#">2C2B-D1-Scheme rules SKN N0106R19 .pdf</a>
			<a href="#">2C2B-D1-SKN N0192R6.docx</a>
			<a href="#">2C2B-D2-Modelling tools.pdf</a>
			<a href="#">2C2B-D3-Guidelines.pdf</a>
			<a href="#">2C2B-D4-Example of large system performance verification.pdf</a>
2C03a	TC312-WG1-SEAS	Final project report	<a href="#">SCF-CENWG1-Final report-February 2013.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. A 2012 version of the EN 12975 standard. If everything goes well this will in fact constitute an EN ISO 9806 standard ( based on the current EN 12975-2), an EN12975-1 and an EN 12975-3-1 (Collector materials and components: Absorber surface durability)</li> <li>• D2. A draft version of the above standards for a second revision, after 2012</li> <li>• D3. Minutes of 2-3 meetings of WG1</li> </ul>	<a href="#">CEN-TC312-WG1 N10043 EN 12975-1 E.pdf</a>
			<a href="#">CEN-TC312-WG1 N10046 EN ISO 9806 E.pdf</a>
			<a href="#">ISO DIS 22975-3 E.pdf</a>
			<a href="#">CEN-TC312-WG1 N10040 Draft meeting minutes 121204.pdf</a>
			<a href="#">CEN-TC312 N0565 CEN TC312 N565 Decisions 15th meeting.pdf</a>
			<a href="#">CEN-TC312-WG1 N10025 Draft meeting minutes San Francisco 201.pdf</a>
			<a href="#">CEN-TC312-WG1 N10026 Attendance list TC312 WG1 2012-07-05.pdf</a>
			<a href="#">CEN-TC312-WG1 N10039 Participation list TG Berlin 2012-11-12.pdf</a>
			<a href="#">CEN-TC312 N0551 CEN TC312 N551 Draft minutes 14th plenary me.pdf</a>
			<a href="#">CEN-TC312-WG1 N10031 N 10031 Invitation TC312 WG1 TG Meeting.pdf</a>



2C05	SOFLAT-SPF	Final project report	<a href="#">SCF_SOFLAT_Project_Reporting_Alpha_Version_2012_07.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Definition of “Life Time Criteria”.</li> <li>• D.2 Definition of a “laboratory test facility to test degradation of solar fluids under thermal load”.</li> <li>• D.3 Definition of a “laboratory test facilities to test containment material degradation”</li> <li>• D.4 Definition of “relevant geometric, hydro- and thermodynamic parameters in the test synthesised of the field experience in the past years”</li> </ul>	<a href="#">2C05-SOFLAT_Report_final.pdf</a>
2C06	SysIndoor-ITW	Latest status report	<a href="#">SCF_sysIndoor_status_2013-08.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Draft report on the extension of ISO 9459-2 and ISO 9459-5 towards indoor testing</li> <li>• D.2 Test results for thermal performance of a factory made forced circulation DHW system</li> <li>• D.3 Test results for thermal performance of a factory made thermo siphon DHW system</li> <li>• D.4 Final report describing the indoor test procedure for factory made systems</li> <li>• D.5 Presentation of the proposal to the SKN</li> </ul>	



2C07	CEN/TC312 Secretariat 2012	<p>Latest status report</p> <ul style="list-style-type: none"> <li>• D.1 Communication, in daily basis, with/             <ul style="list-style-type: none"> <li>o CEN/TC312 chairman, convenors, members</li> <li>o ISO/TC180 for the elaboration of VA WIs</li> <li>o CCMC</li> </ul> </li> <li>• D2 Minutes of plenary meetings</li> <li>• D.3 Resolutions (plenary meetings/ correspondence)</li> <li>• D.4 Update of CEN/TC312 livelink</li> <li>• D.5 Report on the progress of CEN/TC312 activities and resolutions execution</li> </ul>	<p><a href="#">SCF-N0008-R2-SCF_3rd Reporting_2013_August.docx</a></p> <p><a href="#">CEN TC312 N580 Registration form 16th plenary Freiburg.pdf</a></p> <p><a href="#">CEN TC312 N582 EN ISO 22975_3 draft for FV.zip</a></p> <p><a href="#">CEN TC312 N581 Form TC Composition 16th plenary Freiburg.pdf</a></p> <p><a href="#">CEN TC312 N579 Notice 16th plenary meeting Freiburg.pdf</a></p> <p><a href="#">CEN TC312 N569 15th meeting Programme Manager Presentation.ppt</a></p> <p><a href="#">CEN TC312 N570 Liaison report on liaisons with TC128 TC254.pdf</a></p> <p><a href="#">CEN TC312 N571 WG1 Convenor report for 15th meeting.pdf</a></p> <p><a href="#">CEN TC312 N572 Liaison report ISOTC180 IECTC82 for 15th meeting.pdf</a></p> <p><a href="#">CEN TC312 N573 Draft minutes 15th plenary meeting.pdf</a></p> <p><a href="#">CEN TC312 N574 Vote by correspondence on draft Decision 12_2013.doc</a></p> <p><a href="#">CEN TC312 N575 Vote by correspondence on draft Decision 13_2013.doc</a></p> <p><a href="#">CEN TC312 N576 Results of Vote by correspondence on (574) draft Dec_12_2013.doc</a></p> <p><a href="#">CEN TC312 N577 Results of Vote by correspondence on (575) draft Dec_13_2013.doc</a></p> <p><a href="#">CEN TC312 N578 Draft Agenda 16th plenary meeting Freiburg_rev1.pdf</a></p>
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3C01	SK-Trade-ESTIF	Latest status report	<a href="#">SCF-3C01-SK-Trade-status-2013-09.pdf</a>
		<ul style="list-style-type: none"> <li>• D1 Roll-up</li> <li>• D2 2 posters (1 on SK and 1 on Standards &amp; Certification)</li> <li>• D3 Participation with 1 person in 2 trade fairs</li> <li>• D.4 Participation in one conference to promote SK</li> </ul>	
3C02	SK-Database-SolarKey	Final project report	<a href="#">SCF-SK-Database-SolarKey-final-05-2013.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Harmonized “CEN weather data sets” available for download</li> <li>• D2. National/regional weather data sets available for download</li> </ul>	<a href="http://www.estif.org/solarkeymarknew/members-intranet-home/28-members-intranet-sub-pages/94-solar-keymark-weather-database">http://www.estif.org/solarkeymarknew/members-intranet-home/28-members-intranet-sub-pages/94-solar-keymark-weather-database</a>
3C03	T43Sup12-SolarKey	Final project report	<a href="#">3C03-SCF-T43Sup12-Final-2012-12.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Work programme and annex text for an extension of the Task 43 with 1½ years</li> <li>• D.2 Presentation at IEA-SHC ExCo meeting</li> <li>• D.3 One task meeting organised and held</li> <li>• D.4 One workshop</li> </ul>	<a href="#">3C03-D1.zip</a>
			<a href="#">3C03-D2.zip</a>
			<a href="#">3C03-D4.zip</a>
3C04	GlobCert12-AENOR	Final project report	<a href="#">SCF-N0008-R2-SCF Reporting for GlobCert12 final report august 2013.docx</a>
		<ul style="list-style-type: none"> <li>• D1.Report and comparison with other international certification schemes (in food sector: Global Gap, IFS, BRC, in electrical sector</li> <li>• D2. Comparison of KEYMARK Scheme rules with SRCC</li> <li>• D3. Study of world markets regarding national certification schemes for solar thermal</li> <li>• D4. Study of world markets regarding growth of market based on IEA-SHC “Solar Heat Worldwide”. Find most promising markets</li> </ul>	<a href="#">3C04-D1-4-Global Certification for Solar Thermal Products - FINAL DOCUMENT R.1.pdf</a>



3C05	Legio12-AVC	Final project report	<a href="#">Legio12-Report_SCF_Final-2013-04.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. A finalized draft code of practice on the TC164/WG2 technical report N505</li> <li>• D2. If possible, the draft code of practice will be adopted by both or one of the involved TCs</li> </ul>	<a href="#">CoP Solar thermal Legionella - draft final - 2013 04.pdf</a>
			<a href="#">Report SCF Legionella and solar water heaters Final 2013 04.pdf</a>
3C06	EPBD12-AVC	Final project report	<a href="#">EPBD12-Final-2013-04.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Improved calculation method</li> <li>• D2. Description of improved calculation method</li> <li>• D3. Report to TC 312</li> <li>• D4. Reports/presentations for two ESTIF WG meetings</li> <li>• D5. Report/presentation to SKN meetings</li> </ul>	<a href="#">D1&amp;D2-Report EPBD-12 final draft.pdf</a>
			<a href="#">D3 Liaison reports TC164 TC228 TC 371 Jan 2013.pdf</a>
			<a href="#">D5 SKNG 2013 03 13.pdf</a>
3C07a	Liason128_ISE	<p>Final project report</p> <ul style="list-style-type: none"> <li>• D1. Reports to TC 312 about the recent decisions and developments in this working item in TC 128 WG 3</li> <li>• D2. Reports (2) to ESTIF S&amp;C Working group and feedback will be requested to serve as input for the TC128 WG 3 meetings</li> <li>• D3. Report/presentation to SKN meetings</li> </ul>	<a href="#">SCF Liason TC128 final status report 1309.pdf</a>
3C07c	Lias164-12_AVC	Final project report	<a href="#">LiasTC164-12-Final-2013-04.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Discussion/decision in TC164(WG2) on the acceptance of the Code of Practice by the TC164, the TC312 or both.</li> <li>• D2. Report to TC 312</li> <li>• D3. Reports/presentations for two ESTIF WG meetings</li> <li>• D4. Report/presentation to SKN meetings</li> </ul>	<a href="#">D1and2 Liaison reports TC164 TC228 TC 371 Jan 2013.pdf</a>
			<a href="#">D3 Liaison reports TC164 TC228 TC 371 Jan 2013.pdf</a>
			<a href="#">D4 SKNG 2013 03 13.pdf</a>





3C07d	Lias228-12_AVC	Final project report	<a href="#">LiasTC228-12-Final-2013-04.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Discussion/decision in TC228 that EN 15316-4-3 and other relevant TC 228 standards</li> </ul>	<a href="#">D1-Report EPBD-12 draft final.pdf</a>
		<ul style="list-style-type: none"> <li>• D2. Report to TC 312</li> </ul>	<a href="#">D2 Liaison reports TC164 TC228 TC 371 Jan 2013.pdf</a>
		<ul style="list-style-type: none"> <li>• D3. Reports/presentations for two ESTIF WG meetings</li> <li>• D4. Report/presentation to SKN meetings</li> </ul>	<a href="#">D4 SKNG 2013 03 13.pdf</a>
3C07e	Lias371-12_AVC	Final project report	<a href="#">LiasTC3171-12-Final-2013-04.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. List of standards related to EPBD and relevant to solar thermal - with indications if "solar thermal action" is needed.</li> </ul>	<a href="#">D1and2 List of standards relevant for EPBD.pdf</a>
		<ul style="list-style-type: none"> <li>• D2. Discussions/decisions in TC371 to improve relevant standards under the TC371 "umbrella" with respect to solar thermal</li> </ul>	<a href="#">D3 Liaison reports TC164 TC228 TC 371 Jan 2013.pdf</a>
		<ul style="list-style-type: none"> <li>• D3. Reports to TC312</li> <li>• D4. Reports/presentations for two ESTIF WG meetings</li> <li>• D5. Reports/ presentations to SKN meetings</li> </ul>	<a href="#">D5 SKNG 2013 03 13.pdf</a>
3C08	Elab12_tc	Final project report	<a href="#">SCF-3C08-Elab-12-status-1307.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Reference calculation tool in Microsoft Excel</li> </ul>	<a href="#">EnergyLabelling_V2_2.xlsx</a>
		<ul style="list-style-type: none"> <li>• D2. Online calculation tool</li> </ul>	<a href="#">enlab_130710a.zip</a>
		<ul style="list-style-type: none"> <li>• D3. Development of business model</li> </ul>	<a href="#">EnergyLabelling_BusinessModel.pdf</a>
3C10a	SK-Auto_SP	Final project report	<a href="#">SCF-SK_Auto_Status_2013-04-05.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Collector data sheet template with integrated "Collector performance calculator"</li> </ul>	<a href="#">ScenoCalc v4 04 RELEASED - locked.xls</a>
		<ul style="list-style-type: none"> <li>• D2. Guideline for use of the collector data sheet template with integrated "Collector performance calculator"</li> </ul>	<a href="#">Description of ScenoCalc v4.04 - 2013-06-13.pdf</a>



3C11a	HPQual_TUV	Final project report	<a href="#">SCF-HPQual-final report-2013-02.pdf</a>
		<ul style="list-style-type: none"> <li>• D1. Draft test procedure for laboratory tests (WP 1)</li> <li>• D2. Final test procedure for resolution in 13th (preferred) or 14th SKN Meeting (WP 3)</li> </ul>	<a href="#">SCF-HPQual-D1-Draft test procedure-initial proposal freeze test v2.0.pdf</a>
			<a href="#">SCF-HPQual-D2-Final test procedure-roposal freeze test v3.0.pdf</a>
			<a href="#">SCF-HPQual-D3-validation test report ISE-121029_hp-qual-bericht_final.pdf</a>
			<a href="#">SCF-HPQual-D4-validation test report ISFH-b9412q.pdf</a>
			<a href="#">SCF-HPQual-D5-validation test report TEU-21220036_HP-Qual_report.pdf</a>
<a href="#">SCF-HPQual-final report-2013-02.pdf</a>			
3C15a	Uncert-DEM	Final project report	<a href="#">SCF-HPQual-final report-2013-02.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Error analysis, assessment of uncertainty components and elaboration of measurement model [Draft report] for: <ul style="list-style-type: none"> <li>o a) solar collector efficiency (power output) and,</li> <li>o b) predicted annual energy output of solar system</li> </ul> </li> <li>• D.2 Methodology for the estimation of uncertainties of the test results of solar thermal collectors and systems [Draft report]</li> <li>• D.3 Error analysis and uncertainty calculations in thermal solar collector and systems testing [Final report]</li> </ul>	<a href="#">3C15a-UNCERT_Final Report_18-01-2013.pdf</a>
3C16	HarmReq_DINCERTCO	Latest status report	-
		<ul style="list-style-type: none"> <li>• D.1 Document describing the harmonised requirements for testing laboratories.</li> <li>• D.2 Document describing the harmonised requirements for inspectors.</li> </ul>	



3C19b	WWWdata_SRCC	Final project report	<a href="#">3C19-SCF_WWWdata-status_2013_1.pdf</a>
		<ul style="list-style-type: none"> <li>• D.1 Data set for nine climate zones</li> <li>• D.2 Integration of data set into ISO DIS 9459-4</li> <li>• D.3 Provide data set to ISO for placing on the ISO web site</li> </ul>	<a href="http://standards.iso.org/iso/9459/-4/Climate%20Data/">http://standards.iso.org/iso/9459/-4/Climate%20Data/</a>