We aim to organize the 14th Austrian Photovoltaics Congress according to the criteria of the Austrian Ecolabel “Green Meetings”.

14th Austrian Photovoltaics Congress
Photovoltaics Technology Trends – Business Perspectives
Congress Center Villach, Europaplatz 1, 9500 Villach
The cost decrease in recent years has enabled photovoltaics - 15 years after the world-wide introduction of support schemes - to develop from a niche technology for special applications to a real player in the energy market; currently, photovoltaics contributes around 3% to the EU-28’s electricity mix. This development will continue, with almost all experts predicting photovoltaics to become even more important in the coming years. The discussions on climate change and energy security will further accelerate the energy transformation in the bear future; together with wind, hydropower and bioenergy, photovoltaics will become a major driver of the energy transition. Components and systems therefore require further development. Especially the issues of integrating photovoltaics into buildings and combining active and passive uses of solar energy as well as daylight systems will also continue to gain importance, as will the question of energy storage. Likewise, various systemic and technical network challenges need to be solved. Austrian researchers have been well positioned in this technology field for years. Some Austrian companies already successfully operate internationally throughout the value chain, and some start-up companies are just about to enter the market. However, the internationally extremely dynamic development demands even greater efforts in order to remain competitive. For the domestic industry, a regulatory environment that encourages innovation and research and enables close collaboration between various actors, ranging from basic to applied research, will be crucial to further strengthen the Austrian expertise and safeguard Austria’s position as an attractive business location. The Austrian Technology Platform PV can contribute significantly by supporting the participation of companies and researchers in national research programs and through participation in international research networks, such as the International Energy Agency (IEA), the „Photovoltaic Power Systems Programme“ (PVPS) or „SOLAR ERA NET. The annual Austrian Photovoltaics Congress has since become the number one networking event for the innovative domestic photovoltaics scene. This year, the congress is organized by the Austrian Technology Platform Photovoltaics in cooperation with the Province of Carinthia, the Climate and Energy Fund and the Federal Ministry for Transport, Innovation and Technology (BMVIT) and the Federal Association Photovoltaic Austria.

Day 1    Monday, 28 November 2016

OPENING SESSION „It is not only for what we do that we are held responsible, but also for what we do not do.“ Molière

Moderation  Ernst Josef Sandriesser, Environment Unit Diocese Gurk

17.00 Welcoming words: Vice-Governor Beate Prettner; Rolf Holub, Federal Government Member of Carinthia; Günther Albel, Mayor of Villach

17.15 Presentation Sun Song, Music School Villach

17.25 European Strategic Targets for PV and the role of ETIP PV Prof. Marko Topic, Chair European Technology and Innovation Platform Photovoltaics (ETIP PV)

17.55 COP 21 Paris – implications for the energy transition Jürgen Schneider, Federal Environment Agency

18.25 The Energy Vision Carinthia – eMAP, Rolf Holub, Federal Government Member of Carinthia

18.50 Photovoltaics in Slovenia, Prof. Marko Topic, Chair European PV Technology Platform, Slovenia

19.05 Photovoltaics in Italy, Wolfram Sparber, EURAC research, Bolzano, Italy

19.20 Photovoltaics in Austria, Hans Kronberger, Photovoltaic Austria

followed by Get-together: Organic Buffet, music with accompanying company and poster exhibition

Programme subject to change
Day 2  Tuesday, 29 November 2016

Moderation Christina Hirschl, Carinthian Tech Research AG

9.00 Welcoming words: Štefan Merkač representing Rolf Holub, Federal Government Member of Carinthia; Petra Oberrauner, Vice-Mayor of Villach; Ulrike Rohrmeister, BMVIT; Theresia Vogel, Climate- and Energy Fund; Hans Kronberger, Photovoltaic Austria; Hubert Fechner, Austrian Photovoltaic Technology platform, TPPV

9.20 Solar power in Carinthia, Štefan Merkač, Carinthia

9.40 PV as the key to the energy revolution
Stefan Janz, Fraunhofer Institute for Solar Energy Systems ISE, Germany

10.10 The new Austrian PV Technology Roadmap
Hubert Fechner, TPPV/UAS Technikum Wien and Gerhard Peharz, JOANNEUM RESEARCH

10.30-11.00 Coffee Break - accompanying poster exhibition

SESSION 1 Quality aspects for PV components and PV systems

Moderation Christina Hirschl, Carinthian Tech Research AG

11.00 Activities in IEA PVPS Task 13 – PV Performance and Reliability,
Karl Berger, AIT and Gernot Oreski, PCCL

11.25 Qualification of PV modules via realistic weathering tests
Michael Köhl, Fraunhofer-Institut for Solar Energy Systems ISE, Germany

11.50 Quality assurance of PV components and systems in the field, Thomas Krametz, AIT

12.10 Nondestructive detection of polymer aging in PV modules using luminescence
Prof. Beate Röder, Humboldt-Universität zu Berlin, Germany

12.35-14.15 Lunch – accompanying poster exhibition

Break-out SESSION Solar power through citizen empowerment

SESSION Develop your own citizen project

WORKSHOP Design and moderation: Hemma Bieser, avantsmart
14.00–18.00 Please note that a separate registration is required for this parallel workshop.

SESSION 2 Applications fields of photovoltaics

Moderation Hubert Fechner, Austrian Photovoltaic Technology platform, TPPV/UAS Technikum Wien

14.15 PV Thin Film Technologies – Perspectives and Potentials
Prof. Ayodhya N. Tiwari, EMPA, Switzerland

Programme subject to change
Day 2  Tuesday, 29 November 2016

14.40  Infinity – Climate Adapted Photovoltaic, Christina Hirschl, Carinthian Tech Research AG

15.00  Structural safety – Requirements for Mounting Systems
       Albert Knotz, Welser Profile Austria GmbH

15.20  The architecture of photovoltaics – Why Design solutions are a better choice
       Dieter Moor, Ertex Solartechnik GmbH

15.40  Bifacial cell and 360 degrees use, Wolfgang Zawrel, PVP Photovoltaik

15.55–16.20  Coffee Break – accompanying poster exhibition

SESSION 3  National and international R&D activities

Moderation  Peter Illich, TPPV/crystalsol GmbH

16.20  Austrian contributions to the PV research program of the IEA
       Hubert Fechner, TPPV/UAS Technikum Wien

16.40  International R&D activities in the field of BIPV, Task 15 – Enabling Framework for the Acceleration of BIPV, Lukas Maul, UAS Technikum Wien

17.00  National, R&D projects in the area BIPV
       • FlexPV 2.0, Theodoros Dimopoulos, AIT
       • PrintPV, Lukas Plessing, crystalsol GmbH
       • PV@Fassade, Gabriele Eder, OFI
       • SynerCIS project, Andreas Zimmermann, Sunplugged
       • MBS+ project, Kurt Leonhartsberger, UAS Technikum Wien
       • ShapePV, Marcus Rennhofer, AIT

18.00–20.30  MARKETPLACE of innovation:

Poster presentation and company interviews, exhibitors, TPPV members
Company presentations, practical experience including following short presentations

• SunnyBAG LEAF+: The world’s first Solar-Hybrid-Panel, Stefan Ponsold, SunnyBAG
• PV and e-mobility, Gerald Miklin, Carinthia

Open Market
followed by  Tour of company and poster exhibition. Poster authors are available for questions by their posters.

20.30–23.30  GALA evening on invitation of the Austrian photovoltaic technology platform TPPV

Music: GROUP SAX; Please note that a separate registration is required for this part.

Programme subject to change
Day 3  Wednesday, 30 November 2016

SESSION 4  PV in the energy system

9.00  **PV in the power grid – role of PV in security of supply**  
Michaela Leonhardt, APG in debate with Angela Berger, Technologieplattform Smart Grids Austria

9.30  **PV and storage – EStore-M, energy management in PV storage systems**  
Philipp Rechberger, University of Applied Sciences Upper Austria

09.50-10.20  Coffee Break - accompanying poster exhibition

10.20  **Grid Parity for PV and storage systems**, Herbert Pairitsch, Infineon

10.40  **Impact of PV on the electricity market – Supply and Demand Side Management**,  
Hans Auer, Vienna University of Technology

11.00  **TwinPV EU project and PV grid integration**  
Venizelos Efthymiou, FOSS Research Centre, University of Cyprus

11.25  **On the need for education in the BIPV sector: the Dem4BIPV project**  
Wilfried van Sark, Utrecht University, Netherlands

11.50  Poster award ceremony

– Followed by an introduction to the excursions and the e-Mobility Test – END OF CONGRESS

12.00–13.15  Lunch

13.30  Departure for excursions

- **Kioto Solar**, St. Veit/Glan
- **CTR, Carinthian Tech Research AG**, Villach

Return to the Congress Center Villach (last train Villach–Vienna around 17:14 railjet)  
Please note that a separate registration is required for this part.

13.30  e-Mobility Test – car manufacturers present their e-vehicles on site

Programme subject to change
Confirmed participants for the MARKET PLACE of Innovation

KIOTO SOLAR
PVP Photovoltaik
Unser Kraftwerk

ATB BECKER
www.atb-becker.com

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY
TOMORROW TODAY

ALTEC Metalltechnik

AT-SOLUTIONS CARINTHIAN TECH RESEARCH

ERTEX SOLAR Ein Unternehmen der Erth Glas-Gruppe

FACHHOCHSCHULE TECHNIKUM WIEN

Fronius
SHIFTING THE LIMITS

Jinko Solar
Building Your Trust in Solar

JOANNEUM RESEARCH

OFI ZURICHFABRIK PULLEN

PCCL Polymer Competence Center Leoben

PVPHOTOVOLTAIC INSTALLATIONS

SCHLETTER GmbH

SonnePARK österreich

SunnyBAG®

SCHULTZ Solar Technologies

Welser Profile

TECHNOLOGIE PLATTFORM PHOTOVOLTAIK
In addition to the programme, the 14th Austrian Photovoltaic Congress also hosts a poster exhibition for research projects. Research projects funded by the official Austrian support schemes for research on photovoltaics as well as academic research conducted by students with a focus on photovoltaics are hereby of interest. All project leaders of such research projects are welcome to submit their results, information or publication in the form of an academic poster.

A jury will select the best posters, which will be presented at the congress. Please find all relevant criteria for submission below.

CRITERIA

1 | Submission of poster (format A4) until 4 November
Please prepare your academic poster and upload it to www.pvaustria.at/pv-tagung. Alternatively, you can also choose to send you electronic draft via e-mail to office@energiekommunikation.at (max. size 10 MB). Please prepare your poster in way that it is legible in the format A4.

2 | Feedback by 17 November
All authors who submitted contributions will receive feedback from the jury by 17 November at the latest. The successful authors will be invited to showcase their projects in presentations of 2-3 minutes.

3 | Poster submission until 28 November, 4 pm
Please print your poster in the format A0 (portrait format, 841x1189 mm) and submit it on the first day of the congress (28 November 2016) by 4 pm at the latest at the registration desk. There, you will be given detailed information on where your poster spot in the exhibition. Please use appropriate adhesive tape or other means to attach you poster, which do not leave permanent marks on the wall.

4 | Reduced admission fees for poster authors
For every poster that was admitted to the poster exhibition, we offer you an admission fee reduction of 50%. Please note this on your participation registration form.

5 | Presentation on 29 November
The poster presentations will be held at the market place, on 29 November beginning at 6 pm (second congress day). During you short presentation your poster in the format A4 will be shown as a PowerPoint presentation picture.

6 | Poster Award on 30 November
A jury will rate all posters, additionally there is also an audience price. All congress participants are invited to award points to their favourite posters. The two winners of the jury and the audience price will be invited to the poster award on the third congress day at around 11.40 am and are kindly asked to remain at the moderator’s disposal for questions.
We aim to organize the 14th Austrian Photovoltaic Congress according to the criteria of the Austrian Ecolabel „Green Meetings“. Sustainability and a responsible use of natural resources is of great importance to us.

Let’s think about our future, let’s act sustainably.

- We have printed only the most necessary documents and only use chlorine-free bleached TCF paper for our printed work
- Our congress folders are 100% recyclable.
- During the creation of our programme, we have considered all aspects of gender mainstreaming and diversity. Our catering follows all sustainability criteria such as regional sourcing, seasonality, organic quality and Fair Trade.
- To make the Innovation Congress environmentally responsible, we depend on your help. To help us:
  - If possible, please choose an environmentally friendly means of transport such as public transport or carpools
  - If you cannot or do not want to do without your car, or if you arrive by plane, you can offset the incurred CO2 emissions by compensation payments (e.g. Climate Austria)
  - Take advantage of the environmentally friendly offers of your hotel (e.g. limited change of towels and sheets).
  - Turn off all lights, electronic devices (TV, air conditioning, heating, computer, among other things) when you temporarily leave the hotel room.
- Make use of recycling facilities offered at the hotel and the Congress Center Villach when disposing of your waste (PET, glass, paper, metal, batteries etc.).
- Return your badge / name tag after the event at the registration.
- Please complete the questionnaire available at the registration before your departure.

For questions about the Green Meetings, please contact Mrs. Irene Grünbacher at the Congress Center Villach: irene.gruenbacher@ccv.at
Arrival and accommodation

Venue
CONGRESS CENTER VILLACH
Europaplatz 1
9500 Villach, Carinthia, Austria
T: +43(0)4242 / 22522 5800
F: +43(0)4242 / 22522 5899
E-Mail: office@ccv.at

Hotel recommendation
Hotel Holiday Inn – www.holidayinn-villach.com
The hotel has a direct connection to the congress venue. Please inform the hotel that you are a conference participant.

Getting to Villach
Villach is located at the heart of Carinthia, Austria’s southernmost province. It extends south of the Alps, bordering Slovenia and Italy. Due to its central location and the excellent transport links, Villach is easily accessible from all directions — by train, car or plane. We recommend an environmentally friendly means of traveling, such as public transport or carpooling.

Arriving by train
The Villach station is connected directly to Graz, Vienna, Innsbruck, Salzburg, Italy and Slovenia: Train information Villach: +43 051717

Arriving by car
From all motorways, the Congress Center Villach is reachable in direction of the city center. Villach is a transport hub where the country’s main connections intersect. The fully developed motorway network makes traveling easy in four directions (Klagenfurt–Graz–Vienna; Salzburg–Munich; Udine–Trieste / Mestre–Milan; Ljubljana–Zagreb)

Arriving by plane
Nearby Airports: Klagenfurt – 30 km
Ljubljana – 120 km; Salzburg – 180 km

Detailed information on charter flights from / to Klagenfurt and arrival / departure times:
http://www.klagenfurt-airport.at/
Airport transfer from Klagenfurt to Villach – further information under: www.kaerntenshuttle.at and www.touristik-kaernten-transfer.at
The Austrian Photovoltaics specialist Congress this year takes place for the 14th time, has established itself as the number one even for the domestic photovoltaics scene. As in the past years, the congress will provide incentives for innovation and generate new ideas.

Organizer: Austrian photovoltaic technology platform TPPV

Co-organizer: Federal Association Photovoltaic Austria, Climate and Energy Fund; with the support of the BMVIT (Austrian federal Ministry of Transport, Innovation and technology)

Scientific Board: Nadja Adamovic, Martin Aichinger, Karl Berger, Gabriele Eder, Christina Hirschl, Peter Illich, Albert Knotz, Gernot Oreški, Gerhard Peharz, Philip Rechberger, Marcus Rennhofer, Gregor Trimmel, Andreas Zimmermann

Conference chair: Hubert Fechner, Chairman of the Austrian photovoltaic technology platform TPPV, UAS Technikum Wien | Tel. +43 (0)1 333 40 77-572 | E-Mail fechner@technikum-wien.at

Organization: ENERGY COMMUNICATION on behalf of the Austrian photovoltaic technology platform
Silvia Painer-Eichberger | Tel. +43 (0)1 523 50 80-40 | Mobil +43 (0)664 420 13 10
E-Mail painer@energiekommunikation.at

Simultaneous translation into English will be provided at all German language sessions on day 2 and 3 excluding the Break-out Session and the MARKETPLACE of innovation.

Up-to-date information about the conference: www.pv.austria.at/pv-tagung
**PARTICIPANT-REGISTRATION**

**Event:** 14th Austrian Photovoltaics Congress  
28 – 30. November 2016, Congress Center Villach

**Day 1:** Monday evening 28 November 2016, 17 – 20 hrs  
**Day 2:** Tuesday, 29 November 2016, 9 – 20.30 hrs (Gala eveneing at 20.30 hrs)  
**Day 3:** Wednesday, 30 November 2016, 9 – 13.30 hrs (13.30 hrs departure for excursions)

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee (incl. VAT)</th>
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<tbody>
<tr>
<td>Participation fee (3 days)</td>
<td>360,-</td>
</tr>
<tr>
<td>Participation fee (2nd or 3rd day)</td>
<td>180,-</td>
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<tr>
<td>Panel discussion (evening, day 1)</td>
<td>72,-</td>
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Discounts: 50 % for poster presenters / free for press / 48,- Euro incl. VAT for students (until age 27)

**Binding registration for the 14th Austrian Photovoltaics Congress:**

- Registration for the entire congress (all 3 days)  
- Registration for day 1: Panel discussion, Monday 28 November 2016  
- Registration for day 2: Tuesday, 29 November 2016  
  - incl. Gala evening (Tue., 29 Nov., at 20.30 hrs)  
- Registration for day 3: Wednesday, 30 November 2016 (Please register separately for the excursions, see below)  
- Additional registration for the parallel workshop „Solar power through citizen empowerment“ on day 2, 14 – 18 hrs  
- Additional registration for the Gala evening on day 2, at 20.30 hrs

**Registration for the excursion:** (only one choice):

- Yes, i will participate in the e-Mobility test drive  
- Yes, I will participate in the excursion to Kioto Solar in St. Veit/Glan  
- Yes, I will participate in the excursion to CTR, Carinthian Tech Research in Villach  
- No, I will not participate in any excursion

I am entitled to a discount:

- as student / 48,- Euro incl. VAT for the entire congress  
- as press / participation free of charge (please show your press pass at the registration desk)  
- as poster presenter / 50 % discount (1 person per poster, several posters per company possible)

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Company (Please fill in the exact company name for invoicing, incl. UID no.)

Billing address

Participant (titel, name, first name)

E-Mail and website

Phone  
Signature
Event: 14th Austrian Photovoltaics Congress 
28 – 30. November 2016, Congress Center Villach

Service package: Active participation in the Market Place of Innovations 28 - 30 November 2016
- Exhibition table/small fair booth (maximum 3 m²)
- Time for setup before the start of the congress on the first day (Mon., 28 Nov., until 4 pm)
- Time for dismantling the booths on the third day (Wed., 30 Nov. from 2 pm onwards)
- Placement of the company logo in the Congress folder
- Admission to all 3 Congress days (28 - 30 Nov.) for 3 persons (worth 900,- EUR)

Price: 
For members of TPPV: 950,- EUR, for members of PVA: 1,000,- EUR excl. VAT
For non-members: 1,500,- EUR excl. 20% VAT; sponsoring packages according to prior agreement

Contact: For further information, please contact Energiekommunikation
Silvia Painer-Eichberger, phone: +43 (0)1 523 50 80-40; mobile: +43 (0)664 420 13 10

Registration: Please send the completed registration sheet by fax +43 (0)1 523 50 80-30
or by e-mail to: painer@energiekommunikation.at. You can also register online at www.pvaustria.at/pv-tagung-anmeldung

☐ I hereby register as an exhibitor for the 14th Austrian Photovoltaics Congress:

Company (Please fill in the exact company name for invoicing, incl. UID no.)

Billing address

Present as exhibitor (titel, name, first name)

E-Mail und www-Adresse

Phone

Signature