

REFERENCE LIST / REFERENZLISTE |

PV SYSTEMS AND SOLAR COLLECTORS / PV-ANLAGEN UND SOLARKOLLEKTOREN

**Wind tunnel studies for the determination of wind loads for:
Ermittlung der Windlasten durch Windkanaluntersuchungen für:**

1. Solar PV racking systems mounted on flat roofs / PV-Flachdachsysteme (ohne Tracker)

- ▶ Hanwha Q CELLS, 2018
- ▶ B+V Energie Services GmbH, 2018
- ▶ SunPower Energy Solutions France SAS, 2018
- ▶ Premium Mounting Technologies GmbH & Co. KG, 2013–2018
- ▶ AmbiVolt GmbH, 2011–2018
- ▶ Centroplan GmbH, 2017
- ▶ SUNAVI Systems GmbH, 2017
- ▶ PROFINESS GmbH, 2016 und 2017
- ▶ B&K Solare Zukunft GmbH, 2013, 2016 und 2017
- ▶ SolarWorld AG, 2008–2009 und 2017
- ▶ Paul Bauder GmbH & Co. KG, 2016
- ▶ voestalpine Sadev nv, 2016
- ▶ PROFINESS GmbH, 2016
- ▶ Esdec B.V., Niederlande, 2016
- ▶ T.Werk GmbH, 2015–2016
- ▶ SOLARMONTAGE-DISCOUNT, 2010 und 2016
- ▶ KRAFTWERK-Solutions GmbH, 2015
- ▶ Mounting Systems GmbH, 2014, 2015
- ▶ Aerocompact GmbH, 2014, 2015
- ▶ SolarCity, 2014 – 2015
- ▶ ENTEGRO Photovoltaik-Systeme GmbH, 2010, 2015
- ▶ REM GmbH, 2011–2014
- ▶ Jurchen Technology GmbH, 2013
- ▶ M5-Metall Profiltechnik GmbH, 2013

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1. Solar PV racking systems mounted on flat roofs / PV-Flachdachsysteme (ohne Tracker) – Fortsetzung

- ▶ Mounting Systems GmbH, 2013
- ▶ Kleinhelleforth GmbH, 2013
- ▶ hb Solar Belgium PGmbH, 2013
- ▶ TOP Green Trade GmbH, 2012–2013
- ▶ Elektro-Union Hannover GmbH, 2012–2013
- ▶ S.S.T. Solar System Technic GmbH, 2012–2013
- ▶ Solidenergie GmbH, 2012
- ▶ IBS Energieconsulting, 2012
- ▶ SOLON Energy GmbH, 2012
- ▶ Aixtra Solar AG, 2012
- ▶ ProSystem Solar GmbH & Co. KG, 2012
- ▶ VIVATSOLAR AG, 2012
- ▶ Ilzhöfer GmbH Lasertechnik, 2012
- ▶ SunPower Corporation, California, 2012
- ▶ BELECTRIC Solarkraftwerke GmbH/Jurchen Technology GmbH, 2011, 2012
- ▶ Palme Solar GmbH, 2011–2012
- ▶ D&D Deli GmbH & Co. KG, 2010–2012
- ▶ RHENAC Systems GmbH, 2011
- ▶ FISCHER Licht & Metall GmbH & Co. KG, 2011
- ▶ M. Münch Elektrotechnik GmbH & Co. KG, 2011
- ▶ Scheffer Energy Systems GmbH, 2011
- ▶ W. Hartmann & Co. (GmbH & Co. KG), 2011
- ▶ Greenfield Solar Europa GmbH & Co. KG, 2011
- ▶ SULFURCELL Solartechnik GmbH, 2011
- ▶ PUK-Werke KG, 2011
- ▶ Egner GmbH Bedachungen, 2011

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1. Solar PV racking systems mounted on flat roofs / PV-Flachdachsysteme (ohne Tracker) – Fortsetzung

- ▶ Thermic Energy RZ GmbH, 2011
- ▶ Solartekt GmbH, 2011
- ▶ Mounting Systems GmbH, 2010–2011
- ▶ Tornado Flachdach Systeme GmbH & Co. KG, 2010–2011
- ▶ SCHÜCO International KG, 2007, 2009, 2011
- ▶ SunPower Corporation (previously: PowerLight Corporation),
- ▶ US-Sunnyvale, 2006–2011
- ▶ Beck Energy GmbH, 2010
- ▶ VM Edelstahltechnik GmbH, 2010
- ▶ Oelschläger Metalltechnik GmbH, 2010
- ▶ Ilzhöfer GmbH Lasertechnik, 2010
- ▶ AP Elektro Service GmbH, 2010
- ▶ ALEXPO Aluminium GmbH & Co. KG, 2009–2010
- ▶ Thissen & Klein GmbH, 2009
- ▶ heroyal Johann Henkenjohann GmbH & Co. KG, 2009
- ▶ SUNOVA AG, 2009
- ▶ Kösslinger Energy GmbH, 2008–2009
- ▶ S.A.G. Solarstrom AG, 2008

2. Roof-parallel („flush-mounted“) solar PV systems / PV-Schrägdachsysteme

- ▶ BayWa r.e. Solar Energy Systems GmbH, 2016
- ▶ Viessmann Faulquemont S.A.S., 2016
- ▶ Premium Mounting Technologies GmbH & Co. KG, 2015
- ▶ SolarCity, 2014
- ▶ Ernst Schweizer AG, 2014
- ▶ Euro Consult LTD, 2014

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2. Roof-parallel („flush-mounted“) solar PV systems / PV-Schrägdachsysteme – Fortsetzung

- ▶ Ilzhöfer GmbH Lasertechnik, 2013
- ▶ SUNOVA AG, 2008

3. Solar PV tracking systems / Trackersysteme (Freiland- und Aufdach-Systeme)

- ▶ TecnoSun Solar Systems AG, 2011
- ▶ a+f GmbH, 2008–2011
- ▶ IDEEMATEC Deutschland GmbH, 2010
- ▶ Ilzhöfer GmbH Lasertechnik, 2010
- ▶ Solar Integrated Technologies GmbH, 2008–2009

4. Ground-mounted solar PV racking systems / PV-Freilandsysteme (ohne Tracker)

- ▶ Aerocompact GmbH, 2017
- ▶ Mer Renewable Energy Ltd, Israel, 2017
- ▶ IDEEMATEC Deutschland GmbH, 2010 und 2016
- ▶ BELECTRIC Solarkraftwerke GmbH, 2013
- ▶ SOLprime Power Systems GmbH, 2012–2013
- ▶ Gehrlicher Solar AG, 2009–2013
- ▶ BELECTRIC Solarkraftwerke GmbH / Jurchen Technology GmbH, 2012
- ▶ Greenfield Solar Europa GmbH & Co. KG, 2012
- ▶ MAGE SunFIXINGS GmbH, 2011–2012
- ▶ Solarpark Gnötzheim, 2011
- ▶ PUK-Werke KG, 2011
- ▶ Montagebau Karl Göbel, 2010

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5. Carports and greenhouses fitted with PV systems / Carports und Gewächshäuser mit PV

- ▶ **Premium Mounting Technologies GmbH & Co. KG**, 2015
- ▶ **Wierig Solar**, Carports, 2014
- ▶ **Gehrlicher Solar AG**, Carports, 2010
- ▶ **Gewächshäusern in Sizilien**, 2009–2010

6. Wind loading codes and standards (non-exhaustive) / Internationale Windlastnormen (Auszug)

Projects for more than 10 countries / Projekte für mehr als 10 Länder

- ▶ **MBC**, 2017 und 2018
- ▶ **GiB Gesellschaft für innovative Bautechnologie mbH**, 2017
- ▶ **Premium Mounting Technologies GmbH & Co. KG**, 2011–2015
- ▶ **Mounting Systems GmbH**, 2010–2015
- ▶ **Vaillant GmbH**, 2012

Due to current Non-Disclosure-Agreements, in particular with clients from the USA, a large number of wind tunnel studies is not mentioned on this list.

Aufgrund bestehender Geheimhaltungsvereinbarungen ist eine Vielzahl an weiteren Windkanalstudien, insbesondere für US-amerikanische Kunden, in dieser Referenzliste nicht aufgeführt.