



Japaner am Flugplat

Software aus Kyoto

Ins Solar Info Center an stein russer Flugplatz zieht er 7 7 2 ein ausländisches Unternation der Schaffen der Schaffen der Schaffen der Schaffen der Schaffen der Erneuerbaren Energie "Die passen hervorragent Standort Preiburg", sagte Dallmann, Geschäftsführer der Freiburg Wirtschaft und Touristik, die die Ansiedlung mit eingefädelt hat. Drei Laplace-Mitarbeiter aus Japan werden die Redein auslähm der Rechaffen der Rech

Für Laplace war die Ansiedlung in Freiburg vor allem wegen der jährlich veranstalteten, internationalen Fachmesse Intersolar attraktiv. Geschäftsführer MaLocation-Tour für Drehbuchautoren

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Gesteller und gasmelffung von Zellere den deutschaper

"Softwareschmiede"

Laplace System Co., Ltd.
On Various Media

Our products and business are attracting a lot of attentions in and outside Japan.

We have featured in various media like newspapers, magazines and TVs.

This handout introduces the latest news of our company in the media.

Japaner am Flugplat

Software aus Kyoto

burger Flegplatz zieht en 東 八を cin ausländisches Unterne ein: das japanische Softwe 2 2 2 aus Kyoto eröffnet eine 社会計 nannte Repräsentanz. Liebenstellt Simulations- und Me tem-Software für die Bt der Brmeuerbaren Energie "Die passen hervorragene Standort Freiburg", sugte Dallmann, Geschäftsführer der Freiburg Wirtschaft und Touristik, die die Ansiedlung mit eingefädelt hat. Drei Laplace-Mitarheiter aus Japan werden die Repräsentane aufbauen.

Für Laplace war die Ansied

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Ansiedlung eines japanisches Top-Unternehmens

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worldwide market survey simulation software



Solar Pro had a good reputation as "the best software" comparing to other simulation software by PHOTON International The January 2001 issue)

Virtual assistants

Market survey of PV design and simulation software

teresting programs available in English worldwide are list-ed in the table. According to

in English worldwide are listed in the table. According to our research no companies that design English-language PV simulation software could be found in South America, Africa, or India. In Africa most hits led to the Energy and Development Research Centre in Cape Town, South Africa (w.w., ed. c. u.c., a.e., s.a.) default.htm). In the world's largest PV market, Japan, only Kyotobased Larl'ace Systems seems to offer an English version of its PV simulation software. Most English-anguage software, Most English-anguage software, most English version of its PV simulation software Most English-anguage software, interestingly, is available in Europe, particularly in Germany, which reflects the dominant market situation there. However, a few features of the «German programs» are only of use for investors in Germany: so Luxea's SOLINVEST and others offer calculations of financing possibilities on national or regional funding schemes only for the German market.

Simulation of grid-connected PV

Simulation of grid-connected PV

systems

Most installed grid-connected PV systems are smaller than 10 kW, and with these, simulation software is mainly of use in the planning and acquisition period. Investors in a PV system may be interested, for example, in predictions of annual energy yields, and analysis of shadowing. Especially convenient software tools include finding an inverter with the optimum MPP area for a particular PV generato, and calculating the profitability of a system – which becomes even more important if the investor can obtain subsidies, special low-interest loans for V, or feed-in artifis, PVSOL 2, 1 by Valsubsidies, special low-interest loans for V, or feed-in artiffs, PVS0.1, 2.1 by Valentin Energlesoftware of Berlin, Germany, and IVS2.000 by econcage to Freiburg. Germany, include a complete database of the subsidies available in Germany, is of the subsidies available in Germany. So that an integrator can calculate costs for the subsidies which will be subsidies different system sizes while taking into consideration the optimum financing. The use of such software is not only a helpful and convenient tool for individualized or complicated system deserms. It helpful and convenient tool for individualized or complicated system designs. It also aids with standardized systems; while these may not need any design simulation for modules and BoS, cost calculations are almost as fast and economical as with thumb-rules. In addition, the often-attractive visual designs can be a convincing argument during sales talks with potential customers. Hard copies of simu-

lation results are also helpful for acquisi-

ion.

For systems being placed on roofs with many chimneys, dormer windows, or arge trees in a garden, the use of simulation software is advantageous. LaPlace, assed in Kyoto, offers probably the best oftware for such applications, allowing bree-dimensional modeling of shading of shading.

and projection of individual project features (like PV-SYST, from the Université de Genève. Switzetland). This program also offers optional 3D-shading analysis, mismatch analysis, and a toolbox that describes the solar parameters of different locations with tables and graphs.

Simulation of stand-alone

PV systems even an inverter, a battery, and different loads (and thus include more components than grid-connected PV applications), are much more difficult to design, and since the loads' energy requirement defines the size of the components, each system is somewhat unique. Consequently, software is usually even more helpful in designing stand-alone systems.

An example of a badily de-signed system is given in graphic 1. The module ca-pacity of this stand-alone system, which was installed to power some agricultural

equipment for animal hus-bandry in llavaria, Germany, is far too great for the load's re-quired energy, while the bat-tery capacity is too small for the modules and too large for the load. The integrator, who designed this particular sys-tem on his own, would have been forewarmed if he had used simulation and design software, and the whole in-software, and the whole in-tovestment would thus have been much chaper for the customer.

been much cheaper for the cities.

In general, installers designing or optimizing PV systems — particularly standalone systems—have to take hot oa count that the service security, the efficiency and the economy depend on system size (graphic 2).

1. The larger the system, the greater the service security, since at a certain point generated energy exceeds energy needs. With less sunlight being directly used, system efficiency begins to decrease.

2. If the system is too small, energy needs can only be satisfied at a low level, and the system is too small, energy needs can only be satisfied at a low level, and the system is too small, energy needs can only be satisfied at a low level, and the system is too small, energy needs can only be satisfied at a low level, and the system is too small, energy needs can only be satisfied at a low level, and the system of result in penalties for installers, which are often included in installation contained.

included in installation con-tracts.

3. If the system is too large, efficiency decreases, leading to an increase in the price of electricity generation.
Ultimately, it is up to the installer to design an econom-ical system based on optimal-ly fitting components.

simulation software fore-casts how a real system is ex-pected to operate. Statistical (table-based) procedures - like ISE 1.0 or NSO. 3.13 – are based on statistical data, mak-ing such calculations fast, but not very reliable. Time-step simulation programs and sim-ulation programs and sim-ulation programs and sim-ulation systems, however, usually employ models of the different system components, exchange data during the sim-ulation, and thus work like real FV system. Time-step simulation pro-grams generally use databases with average monthly data for global radiation falling on a horizontal surface and with

Freiburg, Germany, seven years ago and is distributed by econcept, a company based in the same city. The software is a menu-led time-step program for the simulation and design of common configurations, for DC and AC stand-alone and grid-connected systems. For stand-alone systems, the software allows users to define how often batteries' state of charging is displayed, for example. The software was completely redesigned in December 1999; it now offers an easiet user interface and pravides more detailed solar module and inverter curves for the simulation. Also, the editor that simulates system shading was improved, and results for shading was improved, and results for Also, the editor that simulates system shading was improved, and results for system loads can now be visualized. As of May 2000, the tool for calculating system 100,000 Roofs Program and Renewable Energy Law. An interesting feature is the opportunity to update the software's interpretable control of the Windows interface, and a new file with module data is downloaded from econzept's web site. The price for PVS 2000 is 404 Euro (\$360).



One program that is increasing its Ger-man market share is PV*Sol, developed and distributed by Berlin-based Valentin Energiesoftware. It is intended for profes-sionals planning and installing on-grid and distributed by Berlin-based Valentin Energiscoftware. It is intended for professionals planning and installing on-grid and off-grid (as well as PV-diesel hybrid) PV systems. The softwares user interface is well-designed; the simulation works upon the professional profession

covers only grid-connected systems and costs 702 DM (\$315), while the more ex-

pensive PV*Sol Professional also includes databases for the simulation of stand-alone systems (955 DM; \$430). If the user wants to change languages during opera-tion, a language update costs 234 DM (\$105).



PVSYST 3.1

neva, Switzerland, released the updat Geneva, switzerland, released the updat-ed version of PySST, a design and simu-lation program for on- and off-grid sys-tems. The software offers more functions than any other listed in this market sur-vey, and the new version has overhauled the chaotic and user-unfriendly operat-ing structure, which often led to software

The update is structured according to a multi-level approach that offers three levels with different contents adapted to the users system sking for installers, project design for engineers, and measured data analysis for secientists. The redesigned software also has improved interfaces to import data – for example, meteorological data from the Meteonorm software – and exporting to Microsoft Swell seesion and exporting to Microsoft Swell seesion. cal data from the Meteonorm software – and exporting to Microsoft Excel is easier as well. Other interesting features are a 3-D-tool for calculating shading of PV sys-tems, and the importing of data for re-mote PV system control. The price is CHF 700 (\$415).



Where to look for insolation date.

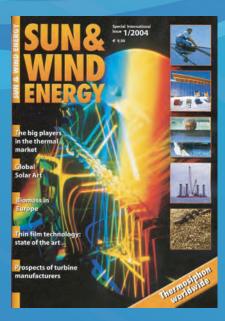
One cannot simulate a PV system's operational behavior without incolation data, which is usually available on the horizontal level, and needs to be calculated to inclined levels of the module surface.

A good source for weather data is radiation atlaises like the third edition of the European Solar Radiation Atlas – Solar Radiation on Horizontal and Inclined Surfaces, by M. Palz and J. Greit, published in 1996 by Springer Verlags which provides meteorological data for all of Europe and also included streams, which provides most horizontal control to the control of the provided within the next few months. Similar adlases exist for other regions of the words, like the "Solar Radiation Atlas of Africas by E. Rackher, R. Stuhlmann, W. Palz, and T.C. Steremers, published in 1991 A. A. Balleman, Rotterdam.

The most interesting software offering vortidwide weather data is Meteonorm, version 4,0 (see article). Data of stest reference years of these countries, average houly values of different climate data are even included. For the U.S. similar data are even included, For the U.S. similar data are aven included. For the U.S. similar data are aven included. For the U.S. similar data are avenuable, here called stypical meteorological years (TMY).

Sometimes, local meteorological institutes offer radiation data on their web sites, though these data are not soughly free. An excellent list of sources.

institutes offer radiation data on their web sites, though these data are not usually free. An excellent list of sources for weather data services can be found at www.magma.ca/-intermet. Some good, free options are the web sites of Switzerland's Meteotest (www.meteotest.ch/prog/ vetterstation.html), NASA (http:// wetterstation.html), NASA (http:// ecowseblarcn.asp.ow/), and the World Radiation Data Center in the US (www.redc.net) gol). The best new place for European weather data will be the web site of Stilled-Light (www.satellight.com), which offers radiation data for every spot in Europe as time rows, maps, statistical variances, or average values in different time resolutions (monthly to hourly), mz







PV*SOL

The PV*SOL time-step simulation program was created by Dx Valentin Energie Software GmbH in Berlin, which has also developed the well-known T*SOL program for thermal solar plants, PV*SOL enables interpretation and simulation of grid-parallel and grid-independent PV systems. The current 2.4 edition is available in two versions. The viversional lows only simulation of grid-linked plants, while the #Professionals version also contains the models and libraries for simulating stand-alone PV systems. This also allows integration of a backup generator in the system. The major functional range of PV*SOL makes the program a practical and useful tool for professional PV work. The simulation processes deliver the most important results relatively quickly and many useful program features are also provided. The PV system for simulation can, for instance, be divided into sub-generators with different modules and inverters. This

enables the analysis of differently arranged su nerators, mismatch effects and sample strew. The program has direct interfaces with the METEONORM program for weather data synthesis, to the horizon line and to the ArCon-STUDIOLINE program for building planning and visualization. The billingual German and English version of PYSOL allows the languages to be changed as desired while the program is running.



PVSYST

Thanks to its broad range of functions, the PVSYST program developed at the University of Geneva, Switzerland, is one of the most effective and power-ful programs in this overview. However, detailed





PHOTOVOLTAICS



The free-of-charge program can thus at least provide initial, simple yield estimates as a basis for subsequent, more detailed analyses.

The SOLAR PRO program from the Japanese company Laplace System Co. Inc. is characterised by very powerful shadowing analyses for PV system operation on and around buildings. The surroundings of a PV system can be represented three-dimensionally and displayed in CAD mode with shadow projections for selected days or as an animation through the course of a day. This in itself gives a good impression of when shadowing can be expected. In the IU characteristic curve mode it is possible to calculate and graphically represent the characteristic curve for any desired module circuit arrangements and shadowing situations and to calculate the reduced power yield. Through changes in the module circuit arrangements it is possible to maximise the system yield. On the basis of the optimised circuit arrangement or the previously defined surroundings of the PV system it is then possible to calculate the system in the graphic of the PV system is to the property this in graphic or a system is careful for specific days, months or a system is and to present this in graphic reposit or and the present this practical in the property of th The SOLAR PRO program from the Japanese com

tem yield for specific days, months or a year and to represent this in graphic or

tabular form. Unfortunately SOLAR PRO can Untortunately SOLAR PRO can analyse only grid-linked systems and lacks other calculation possi-bilities such as economic viabili-ty analysis and balance of emis-sions. The use of SOLAR PRO can thus be recommended when one needs to calculate and manies the vield of partially shadowmise the yield of partially shado ed, building-integrated PV systems, fo instance in areas with a high settlement density. In this area of use the perform ance of SOLAR PRO cor siderably exceeds that of the other program sented here – with the exception of PVSYST.

Miscellaneous

The NSOL (6) descriptive program from the company Orion Energy of Frederick, Maryland (USA), is a good example of programs with which one can calculate Remote Area Power Supply Systems (RAPS). NSOL Remote Area Power Supply Systems (RAPS), NSOL can be used for quick project planning of stand-alone PV systems or for acquisition. It provides statements on the balance of energy (BoE) of systems, on loss of load probability (LOLP) and a matrix with the battery state of charge (SOC) on the basis of varying daily and monthly profiles. If required a lossil-power ed axoilary generator can also be calculated for. There are a number of programs which can be used to calculate more complex stand-alone hybrid systems. Some of these are tabher cumbersome to use, such as HYBBIDE [7] or SOMES (B), or are very powerful but expensive to procure, such as SOLSIM

use, such as HYBRID2 [7] or SOMES (B), or are very powerful but expensive to procure, such as SOLSIM [9]. An interesting program alternative for calculat-ing these systems is the Remote Area Power Supply Simulator (RAPSIM), developed at the Murdoch Uni-versity Energy Research Institute (MUERI) in Australia 10.1 The RAPSIM simulation package enables users to calculate PV systems, small wind power plants and dissels stand-alone systems, or any desired com-bination of these systems, RAPSIM allows a detailed analysis of the system performance to be expected. analysis of the system performance to be expected with various load profiles and the interplay of the different generators. One of the most interesting program properties is the estimate of the long-to-

gam properties is the estimate of the long-term energy generation costs, taking into account the life expectancy of components and the running costs. Various interpretation programs are provided free of charge by manufactures of inverters. Some of these programs are based on EXCEL or utilise the Internet. These include GENUA from SMA [11], KON-FIGURATOR from Fronius 12], SITOPSELECT-40 from Siemens [13] and PV SIZING TOOL from Xantrex (formerty Tarce Fronius 12]. merly Trace Engineering) [14].

Der Sonntag on May 9, 2004

Japaner am Flugplatz

Software aus Kyoto

Ins Solar Info Center am Freiburger Flugplatz zieht erstmals ein ausländisches Unternehmen ein: das japanische Softwareunternehmen Laplace System Co. aus Kyoto eröffnet eine so genannte Repräsentanz. Laplace stellt Simulations- und Messsystem-Software für die Branche der Erneuerbaren Energien her. "Die passen hervorragend zum Standort Freiburg", sagte Bernd Dallmann, Geschäftsführer der Freiburg Wirtschaft und Touristik, die die Ansiedlung mit eingefädelt hat. Drei Laplace-Mitarbeiter aus Japan werden die Repräsentanz aufbauen.

Für Laplace war die Ansiedlung in Freiburg vor allem wegen der jährlich veranstalteten, internationalen Fachmesse Intersolar attraktiv. Geschäftsführer Masayuki Horii sieht hier einen Zugang zu potenziellen Kunden und Absatzmärkten. (ds) Badische Zeitung on May 10, 2004

Software-Haus aus Japan in Freiburg

FREIBURG (hos). Das japanische Software-Unternehmen Laplace System mit Sitz in Kyoto hat im Freiburger Solar-Info-Center ein Vertriebsbüro eröffnet. Nach Angaben von Laplace-Geschäftsführer Masayuki Horii geht die Vertretung in Freiburg mit drei Mitarbeitern aus Japan an den Start. Die Schaffung weiterer Stellen für Arbeitskräfte aus Deutschland sei geplant. Außerdem sei vorgesehen, das neue Büro, welches zugleich den ersten Schritt von Laplace nach Europa darstelle, langfristig zur Zentrale für den ganzen Kontinent auszubauen. Laplace System wurde 1990 gegründet und entwickelt Software für die Simulation und die Überwachung von Solar- und Windkraftanlagen.

Kommunalintern in June 2004



Wirtschaftsregion Freiburg

Neue Partnerschaft

Location-Tour für Drehbuchautoren

Seit neun Jahren ist das Freiburger Drehbuchcamp fester Bestandteil in der bundesweiten Filmautorenlandschaft. Erstmals waren in diesem Jahr die Freiburg Wirtschaft und Touristik GmbH (FWT) und das location office region freiburg als Partner mit von der Partie. Sie hatten alle Teilnehmer zum Auftakt des Camps zu einer "Location-Tour" durch Freiburg eingeladen. "Freiburg hat als Filmkulisse viel zu bieten, was nicht zuletzt die in den vergangenen Monaten hier gedrehten Filme beweisen. Wir möchten den Teilnehmern eine kleine Auswahl der zahlreichen Motive zeigen und würden uns natürlich freuen, wenn die kleine Tour neue Anregungen für zukünftige Drehbücher liefert", so Dr. Bernd Dallmann, Erster Geschäftsführer der FWT.

Veranstalter des Drehbuchcamps sind die MFG-Filmförderung Baden-Württemberg, die Zentrale Fortbildung von ARD und ZDF (ZFP), das Goethe-Institut Freiburg und die Hessische Filmförderung mit Unterstützung der Degeto Film GmbH. Bis zu 60 Fachleute nehmen jedes Jahr an dem Seminaren

Ansiedlung eines japanisches Top-Unternehmens

"Softwareschmiede" aus Kyoto in Freiburg

Als einen "Volltreffer" für die Wirtschaftsförderung in der Region bezeichnete der Erste Geschäftsführer der Freiburg Wirtschaft und Touristik GmbH (FWT), Dr. Bernd Dallmann, die Ansiedlung des in Japan renommierten Software-Unternehmens "Laplace System Co., Ltd." aus Kyoto im Gebäude des Solar Info Centers in der Nähe des Freiburger Flugplatzes. Im Verlauf einer Eröffnungsfeier sprachen der geschäftsführende Gesellschafter der japanischen "Softwareschmiede", Masayuki Horii, und der örtliche Repräsentant der Firma, Masaki Fujisawa, von einem "ersten Schritt" auf dem Weg zum Aufbau eines europäischen Vertriebsnetzes, dessen Mittelpunkt Freiburg sein werde.

Die Gäste aus Fernost hatten Freiburg beim Besuch der Fachmesse "Intersolar" kennen gelernt und hatten dabei ein besonders günstiges Umfeld für ihre Firmenaktivitäten ausgemacht.

In Japan ist Freiburg nach den Worten Horiis als deutsche "Umwelthauptstadt" bekannt und genießt vor allem als "führender Standort in der Solartechnologie" einen ausgezeichneten Ruf.

Die stark expandierende Firma "Laplace System" ist ein interna-



Repräsentanten der japanischen Firmen, Masaki Fujisawa, der geschäftsführende Gesellschafter Masayuki Horii, und FWT-Geschäftsführer Dr. Bernd Dallmann (v. l. n. r.) bei der Firmeneröffnung.

tional tätiger, führender Hersteller von Simulations- und Messsystem-Software im Bereich der
erneuerbaren Energien und entwickelt innovative Produkte für
Solar-, Photovoltaik- und Windkraftanlagen. Das Interesse, das
den Produkten aus Fernost auf der
Freiburger "Intersolar" von einem
sachverständigen Publikum entgegengebracht worden ist, bestärkte die Unternehmensleitung
in dem Entschluss, in Freiburg einen Stützpunkt für den europäischen Markt einzurichten.

Den ersten Kontakt zu dem Unternehmen aus Kyoto knüpfte die Japan-Beauftragte der FWT, Shigeko Maeda. Zum Standort Freiburg bemerkte Masayuki Horii: "Freiburg hat, was wir suchen: die un-

mittelbare Nähe zur "Intersolar" und damit zu potenziellen Kunden und Absatzmärkten, zu anwendungsorientierten Forschungsund Entwicklungseinrichtungen wie dem Fraunhofer-Institut für Solare Energiesysteme und ein Image, das gut zu unseren Produkten passt und sich international hervorragend vermarkten lässt."

FWT-Chef Bernd Dallmann wertete die Ansiedlung als einen Beleg dafür, wie wichtig international
beachtete Ausstellungen im Rang
einer "Intersolar" für den Wirtschaftsstandort Freiburg sind, da es
sich bei der Ansiedlung der Japaner aus Kyoto wieder einmal gezeigt habe, dass Kontakte in den
Messehallen zu weit reichenden
Verbindungen führen.

Newspapers

THE NIKKAN KOGYO SHIMBUN on November 10, 2009



THE NIKKAN KOGYO SHIMBUN on December 1, 2010





FujiSankei Business i. on December 1, 2010

オフィスのCO2 分かる装置開発

オフィスのCO2分かる実際開発 権大手ゼネコンの戸田聴設は30日、オフィス向けに二 酸化炭素(CO2)の禁用整设は30日、オフィス向けに二 酸化炭素(CO2)の禁用整大一日で分かる装置を開発 したと発表した。事業所のCO2対策に減乏保める中か 全実向けの採用を目指す。普及すれは、国内CO2 排出 撮の15%を占めるオフィス配門の排出解就に役立ちそう。 原発したのは「エYPEO—11」。計劃部の日整理機と システム制発のラブラス・システムと共同で開発した。 順面上でCO2 排出盤のはか、電気とガスの使用量を設 示でき、光満度の形態の目標になる。価格は1セット当 たり50万円。

THE MIYAKO MAINICHI SHIMBUN on June 5, 2011



The Nikkan Kensetsu Kogyo Shimbun on December 1, 2010

届本社ビルのCO₂排出削減 co₂MPAS活用し成果

June 18, 2010

Our system was installed in Brunei.

ネイー

The system monitors the operation status of 6 different types of solar panels.

We were awarded "Top Runner for Environmental Efforts" from Kyoto Prefecture, an award for groups that made great effects on environment-friendly movement, for our products



TVs

■"Ohayo Nippon" (NHK) on April 7, 2010 Our product "CO2MPAS" was introduced in NHK as a carbon management system.





■"Jidai no New Wave" (ASAHI NEWSTAR) on April 30, 2011 Our performance of opening up the field of renewable energy and our future business plan was featured.





