

2015台达杯国际太阳能建筑设计竞赛获奖作品集

Awarded Works from International Solar Building Design Competition 2015

# 阳光与美丽乡村

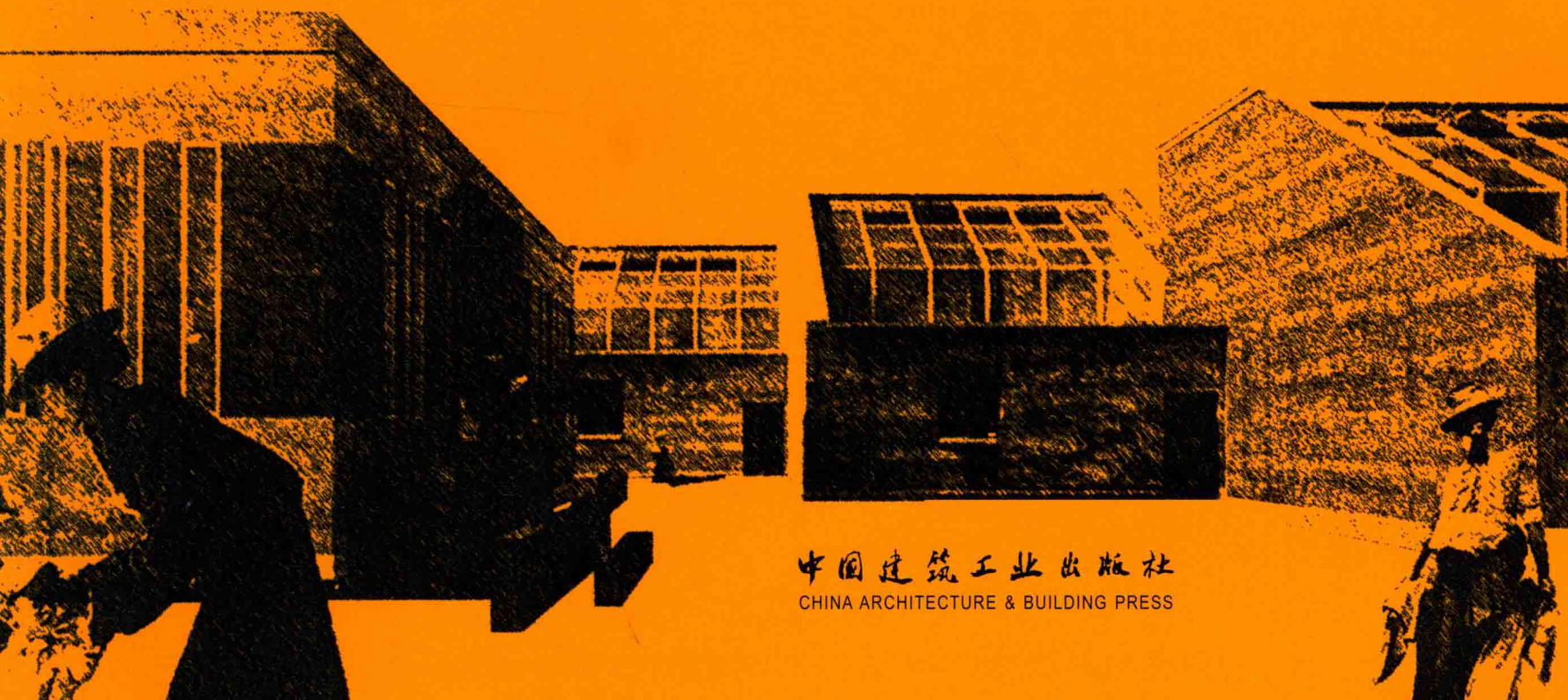
## Sunshine and Beautiful Village

中国可再生能源学会太阳能建筑专业委员会 编

Edited by Special Committee of Solar Buildings, CRES

执行主编 仲继寿 张 磊

Chief Editor : Zhong Jishou, Zhang Lei



中国建筑工业出版社

CHINA ARCHITECTURE & BUILDING PRESS

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乡村孕育了城市，为城市提供劳动力、土地、产品、生态的保障。研发经济型宜居农村住房，让太阳能等清洁能源和绿色建筑技术应用到广大的新农村建设中，不仅是本次竞赛的关注点，更是今后城市反哺农村、促进人居可持续发展的重点。我们期待以竞赛为契机，和业内各界人士携手共建“美丽乡村”，实现“让城市融入大自然，让居民望得见山、看得见水、记得住乡愁”。

感谢台达环境与教育基金会资助举办2015台达杯国际太阳能建筑设计竞赛。

谨将本书献给致力于美丽乡村建设的设计者、建设者和践行者。

Villages are the lifeblood of cities; they provide cities with labor, land, products and ecological protection. An important aspect of this competition is to analyze the research done on economical livable rural housing, so that solar and other clean energy as well as green building technology can be applied to the majority of new rural construction; equally important, however, is the return of this clean energy and technology to rural areas and the promotion of sustainable development within rural settlements. We see this competition as an opportunity for industries from all walks of life to go hand in hand in building “Beautiful Villages”; to make sure we achieve our motto of “Integrating nature into cities, so that residents can see mountain-tops and water; and remember the pleasures of living in the countryside”.

**A warm thanks to the Delta Environmental & Educational Foundation for sponsoring the International Solar Building Design Competition 2015.**

**This book is dedicated to the designers, builders and practitioners of “Beautiful Village”.**

# 阳光与美丽乡村

## Sunshine and Beautiful Village

2015年,正值国际太阳能建筑设计竞赛活动步入第十个年头,关注最具现实意义的热点问题,通过设计手段和工程实践传播低碳节能环保的生活理念是这项赛事不变的宗旨。本届竞赛聚焦新农村建筑,以“阳光与美丽乡村”为主题,设置农牧民定居青海低能耗住房项目和农村住房产业化黄石住宅公园项目两个赛题,面向全球征集作品,希望将太阳能等清洁能源和绿色建筑技术运用于广大农村建筑当中,推进中国新型城镇化、城乡一体化发展进程。

两个赛题均注重农民住房品质的提升,具有较强的现实意义。青海赛题强调农牧民定居及生态保护的问题;黄石赛题更突出工业化建造在推进新农村建设中可能发挥的作用。较之往届竞赛作品,本届作品的质量和数量都有很大提升。在关注绿色低碳、安全健康的设计要求的同时,充分考虑了太阳能利用技术对降低建筑使用能耗的作用,并在经济和技术层面更加突出实用与可操作性。特别是两个一等奖作品“风土再生”和“日光·笙宅”更是充分考虑了不同区域的气候特征和人们的生活方式,融入了当地的建筑文化,合理地采用了主被动太阳能技术,具有较强的可实施性。

让人备感欣喜的是,本届竞赛收到了一份来自中国人民大学附属中学高二年级同学提交的作品,她们是历届竞赛中最年轻的参赛者。虽然她们的作品未能进入终评,但年轻人广泛参与节能、环保建筑事业的行动和理念获得了评审专家的关注和肯定,组委会在终评会上特别安排了三名参赛者与国际评审专家面对面交流了她们的设计理念。

十年之间,竞赛影响力不断扩大,竞赛的平台效应日益凸显,正逐步成为行

业智慧共享、新能源应用服务、获奖作品实践、创新人才培养和低碳理念传播的综合平台。本项赛事已经成为一个持续性的活动,先后有90余个参赛国家、5537个参赛团队参赛,提交了1032项有效作品。竞赛的参赛作品质量不断提高,并实现了竞赛之后的持续示范建造,“5·12汶川地震”后已经投入使用的杨庄镇台达阳光小学、目前完成主体建设的中达低碳示范住宅,以及即将建设的青海农牧民定居农宅……这些项目正在发挥着良好的工程示范和理念传播作用。在总结和验证了多种实用、高效的创新技术方案的同时,竞赛培养了大批专业人才,不断为太阳能建筑事业注入新的力量。可以说,竞赛本身已经成为一个重要的绿色建筑行动。

感谢2015台达杯国际太阳能建筑设计竞赛的参与者,感谢所有关心与支持太阳能建筑发展的人们。

In 2015, the International Solar Building Design Competition celebrates its 10<sup>th</sup> anniversary. It maintains its ever unchanging purpose to focus on the hottest issues in modern architecture, spreading knowledge of design tools and engineering ideas for the practice of low-carbon green energy living. The focus of the competition is new rural construction, with “Sunshine and Beautiful Village” as the theme; The 2 competition topics are: Low Energy-Consumption Housing for Farmers in Qinghai Province; and Rural Housing Industrialization in the Residential Park, Huangshi City. With entries coming in from all around the world, it is our hope to integrate solar energy, clean energy and green building



农牧民定居青海低能耗住房项目场地实景图 Site of Low Energy-Consumption Housing for Farmers in Qinghai Province



technology into rural construction; which will promote China's urban-rural integration development process.

The 2 competition topics have strong practical significance and focuses on improving the quality of farmers' houses; The Qinghai theme emphasizes farmer settlements and ecological protection, while the Huangshi topic focuses on the role that industrialization plays in the construction of new rural areas. Compared to the work of previous competitions, the quality and quantity of this contest has seen great improvement. While focusing on low-carbon green building and safe design requirements, we also take into account solar energy technology and its role in reducing building energy use; all this is kept in mind as we analyze the practicality and feasibility in terms of economic and technical aspects. This is especially true when we look at the 2 top ranked works: "Regeneration of Vernacular Settlements" and "Solar Bamboo House"; They fully take into account the climatic characteristics of different regions and the way people live their lives. They've also assimilated with local building culture and reasonably use active and passive solar technology. The ability to implement these 2 works has a very strong chance of success.

It gives us great joy to announce that the current competition has an entry from a group of The High School Affiliated to Renmin University of China grade 2 students, making them the youngest group to ever participate in this competition. Although they were not able to enter the final round of assessment, the fact that these young adults were so enthusiastic and involved in energy-saving and environmental protection has caught the attention and recognition of our expert

judges. During the final evaluation meeting, the organizing committee made special arrangements to set up a face-to-face between the 3 contestants and our international evaluation experts to discuss their design ideas.

Throughout the last decade, the influence of this competition has grown rapidly. It is now an integrated platform that shares industry wisdom, provides new energy services, finds new innovative talents and spreads the concept of low-carbon. This tournament has become an ongoing continuous event, with more than 90 participating countries, 5537 teams and 1032 submitted valid entries. The quality of works submitted by participants is getting better every year, and has achieved sustained demonstrations after the competition. After the "Wenchuan Earthquake of 5·12" these works were implemented into the Delta Sunshine Elementary School in Yangjia Town; up to now, they've completed the main construction of the Delta low-carbon demonstration project. Another example is the upcoming construction of Qinghai Low Energy-Consumption Housing for Farmers. These types of construction play a crucial role in the spread of demonstration projects and ideas. In the process of summarizing and verifying a large variety of practical, efficient and innovative technological solutions, the competition has cultivated many professionals, and continues to fill the solar building cause with strength and vitality. In other words, the competition itself has become a vital part of green building initiatives.

A heartfelt thanks to all the participants of the International Solar Building Design Competition 2015; and to all those out there who care about and support Solar Building Development.



农村住房产业化黄石住宅公园项目实景图 Site of Rural Housing Industrialization in the Residential Park, Huangshi City

# 过程回顾

## General Background

本届竞赛由国际太阳能学会和中国可再生能源学会联合主办；国家住宅与居住环境工程技术研究中心、中国可再生能源学会太阳能建筑专业委员会承办；台达环境与教育基金会独家冠名。在相关单位的通力配合和社会各界的大力支持下，竞赛组委会于2014年1月成立，先后组织了竞赛启动、媒体宣传、校园巡讲、作品注册与提交、作品初评与终评、技术交流等一系列活动。这些活动得到了海内外业界人士的积极响应和参与。

### 一、竞赛筹备

开展美丽乡村建设，是推进生态文明和城乡一体化建设、全面建成小康社会的需要。

筹备之初，竞赛组委会将赛题锁定为美丽乡村农宅，并对竞赛实地建设场地进行了认真的考察。竞赛组委会得到了住房和城乡建设部建筑节能与科技司、青海省科学技术厅、湖北省黄石市房地产管理局等单位的大力支持，本届竞赛题目最终确定为“阳光与美丽乡村”，共设置两个赛题，包括农牧民定居青海低能耗住房项目和农村住房产业化黄石住宅公园项目。通过组织专家实地考察，确定了设计竞赛的场地建设条件，并编制了竞赛设计任务书。



农牧民定居青海低能耗住房项目实地考察 On site visit of Low Energy-Consumption Housing for Farmers in Qinghai Province

This competition is organized conjointly by the International Solar Energy Society and Chinese Renewable Energy Society (CRES). The Competition operators are the China National Engineering Research Center for Human Settlements and the Special Committee of Solar Buildings, CRES. It is sponsored solely by the Delta Environmental & Educational Foundation. With full cooperation of all the relevant organizations, the Organization Committee for this competition was set up in January of 2014; they then went on to organize competition start up, media campaigns, campus tours, entry registration and submission, preliminary and final evaluations, technical seminars, etc. These activities have received very positive responses and active participation from industry experts both at home and abroad.

### 1. Competition Preparation

In order to carry out Beautiful Village construction, we needed to promote ecological civilization, urban-rural integration and an all-around healthy society.

During preparation, the organizing committee locked in on the topic of Beautiful Village farm houses, and organized investigation of the competition's location. The competition organizing committee has received great support from: Department of Building Energy Saving and Science and Technology, Ministry of Housing and Urban-Rural Development of the People's Republic of China; Qinghai Science and Technology Department; Huangshi City Real Estate Authority; among other companies. In the end, we decided on "Sunshine and Beautiful Village" as this year's competition topic; including Low Energy-Consumption Housing for Farmers in Qinghai Province; and Rural Housing Industrialization in the Residential Park, Huangshi City. Through vigorous field investigation by our experts, the construction conditions were determined, and a competition design mission statement was compiled.

### 2. Competition Start-up

On May 13<sup>th</sup>, 2014, the International Solar Building Design Competition 2015 launched in Xining City, Qinghai Province. Among the prestigious guests in attendance at the competition launch ceremony were: Shi Dinghuan, Counselor of the State Council and Chairman of China Renewable Energy Society; Han Aixing, Deputy Director of Department of Building Energy Saving and





农村住房产业化黄石住宅公园项目实地考察 On site visit of Rural Housing Industrialization in the Residential Park, Huangshi City

## 二、竞赛启动

2014年5月13日，2015台达杯国际太阳能建筑设计竞赛在青海省西宁启动。国务院参事、中国可再生能源学会理事长石定寰、住房和城乡建设部建筑节能与科学技术司副司长韩爱兴、台达集团创办人暨台达环境与教育基金会董事长郑崇华、中国可再生能源学会太阳能建筑专业委员会主任委员仲继寿、青海省科技厅副厅长周卫星、青海省住房和城乡建设厅党组书记贾应忠、青海省住房和城乡建设厅总工程师熊士泊、湖北省黄石市房地产管理局局长刘昌猛等嘉宾出席并参与了竞赛启动仪式，共同为“2015台达杯国际太阳能建筑设计竞赛”揭幕。

本届竞赛的两个题目在设置上各有侧重，中国青海低能耗农牧民定居项目希望通过太阳能建筑技术和绿色建筑技术的运用，设计出低成本、高性能，满足农牧民居住生活需求的健康性安全和低碳宜居的农村住宅，从而探索城乡统筹、资源集约、生态宜居、和谐发展的城镇发展模式；中国湖北农村低碳住宅产业化项目重点解决产业化构件的设计、施工和应用问题，展示先进适用的住宅设计理念



竞赛启动仪式嘉宾留影 Photographing of honored guests at the competition launch ceremony

Science and Technology, Ministry of Housing and Urban-Rural Development of the People's Republic of China; Zheng Chonghua, Delta Group Founder and Chairman of the Delta Environmental and Education Foundation; Zhong Jishou, Director of the Special Committee of Solar Buildings, CRES; Zhou Weixing, Deputy Director of the Qinghai Science and Technology Department; Jia Yingzhong, Secretary of the Department of Housing and Urban-Rural Development of Qinghai Province; Xiong Shibo, Chief Engineer of the Department of Housing and Urban-Rural Development of Qinghai Province; Liu Changmeng, Huangshi City Real Estate Bureau; Together, we unveiled for the "International Solar Building Design 2015 Competition".

The 2 topics of this year's competition each focus on specific areas. China's Qinghai low energy farming residents project hopes to use solar energy building technology and green building technology to design low cost, high performance farming residents that meet the requirements of agricultural and pastoral lifestyles in these rural areas; all while maintaining health safety and low-carbon standards. This will allow exploration of urban-

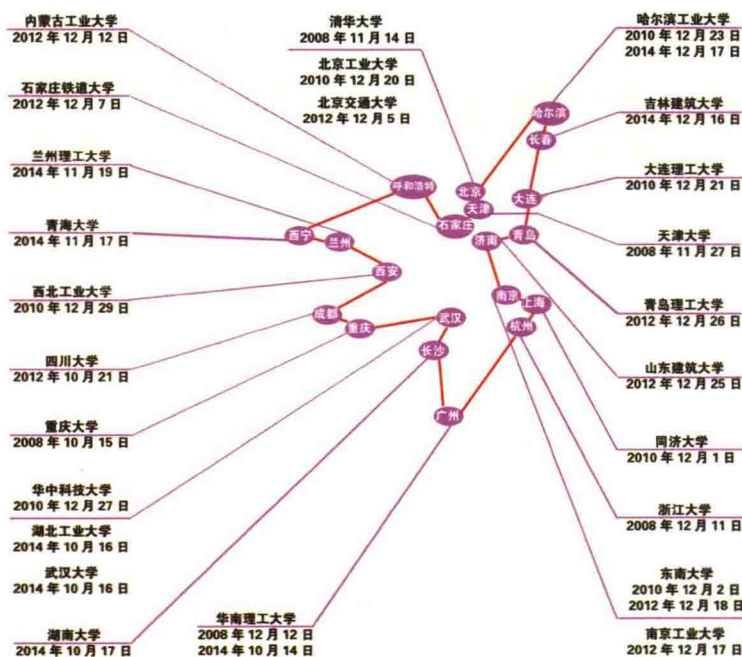


rural planning, intensive resources, ecological livability and harmonious development of urban expansion models. China's Hubei rural low-carbon housing industrialization project focuses on solving the issues of design, construction and application of industrial components; it displays advanced concepts and construction technology for the application of residential designs, and promotes the industrialization of these applications; this in turn improves production efficiency and the quality of rural housing, and achieves low impact development. The Competition Organizing Committee hopes that through these platforms, we can strive to practice the use of solar energy through green, low-carbon and healthy technology; and from which we can research and develop economical and livable rural housing.

### 3. Campus Tours

Campus Tours for the International Solar Building Design Competition are an important part of this event. Since its inception, Tsinghua University, Tianjin University, Southeast University, Chongqing University, Shandong Jianzhu University and many other domestic architectural colleges and universities have given us their support; it has gradually become a very influential activity on campuses and has attracted a large number of passionate young designers to actively participate in the competition.

On October 14<sup>th</sup>, 2014, the “International Solar Building Design Competition 2015 Campus Tour” kicked off its first event at South China University of Technology; following this, it continued to spread its Solar Building design concepts at Hubei University of Technology, Wuhan University, Hunan University, Qinghai University, Lanzhou University of Technology, Jilin Jianzhu University, Harbin Institute of Technology, etc. The speaker on the tour was Zeng Yan, chief architect of the National Residential and Environmental Engineering Technology Research Center; the tour content covered the modern trends of application for solar building technology and analysis of works done by previous competition winners. Through this tour, students and teachers obtained an in-depth understanding of the Solar Building Design Competition and energy-saving technology; this in turn stimulated design inspiration within the competition's teams, and drastically increased registration for the competition.



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华南理工大学巡讲现场 Campus Tour in South China University of Technology



武汉大学巡讲现场 Campus Tour in Wuhan University



湖北工业大学巡讲现场 Campus Tour in Hubei University of Technology



湖南大学巡讲现场 Campus Tour in Hunan University





青海大学巡讲现场 Campus Tour in Qinghai University



吉林建筑大学巡讲现场 Campus Tour in Jilin Jianzhu University



兰州理工大学巡讲现场 Campus Tour in Lanzhou University of Technology



哈尔滨工业大学巡讲现场 Campus Tour in Harbin Institute of Technology

2014年10月14日,“2015台达杯国际太阳能建筑设计竞赛校园巡讲”活动在华南理工大学首站拉开序幕,随后分别走进湖北工业大学、武汉大学、湖南大学、青海大学、兰州理工大学、吉林建筑大学和哈尔滨工业大学等院校传播太阳能建筑设计理念。巡讲主讲人为国家住宅与居住环境工程技术研究中心曾雁总建筑师,巡讲内容涵盖了太阳能建筑技术应用趋势和现状、历届竞赛获奖作品分析和本届竞赛介绍。通过巡讲,师生们对太阳能建筑设计竞赛和节能技术有了更深入的了解,激发了参赛团队的设计灵感,巡讲后注册人数明显上升。

#### 四、媒体宣传

自竞赛启动伊始,组委会通过多渠道开展媒体宣传工作,包括:竞赛双语

#### 4. Publicity through the Media

Since the start of the competition, the Organizing Committee propagated media through many channels, including: a bilingual website that reported real-time competition progress and popular science propaganda for solar buildings; set keyword searches on Baidu, making public searches much more convenient and much easier to log into the competition website; published special edition advertisements in China's "Architectural Journal", "Architecture Technique" and other professional magazines; published the competition's organization and advertisement situations in "Science and Technology Daily", "China Construction News", "Global Times" and more than 30 other printed media platforms; set up links and relevant information for the competition on Xinhua Net, Tencent, ABBS, Top



竞赛官方网站和宣传报道 Official website and media reports





网站实时报道竞赛进展情况并开展太阳能建筑的科普宣传；在百度设置关键词搜索，方便大众查询，从而更快捷地登陆竞赛网站。在中国《建筑学报》、《建筑技艺》等专业杂志刊登了竞赛活动宣传专版；在《科技日报》、《中国建设报》、《环球时报》等30余家平面媒体上发布了竞赛的组织与宣传情况；在新华网、腾讯网、ABBS、筑能网等50余家网站上报道或链接了竞赛的相关信息；同时，组委会与加拿大蒙特利尔大学、巴西麦肯锡教会大学、西班牙加泰罗尼亚理工大学等30余所国外院校取得联系并发布了竞赛信息。

### 五、竞赛注册及提交情况

本次竞赛的注册时间为 2014年6月1日至2015年1月1日，共1232个团队通过竞赛官网进行了注册，其中，境外注册团队36个，包括日本、德国、法国、西班牙、加拿大、美国、瑞典、巴西、埃及、意大利、韩国等国家和中国港澳台地区。截至2015年3月1日，竞赛组委会收到德国、巴西、意大利、加拿大、埃及、中国香港和中国内地等国家和地区提交的参赛作品265个，其中有效作品250个。

### 六、作品初评

2015年3月5日，组委会将全部有效作品提交给初评专家组。每位专家根据竞赛办法中规定的评比标准对每一件作品进行评审，各自选出60份作品进入中评。经过竞赛评审专家的严格审查，3月10日组委会对所有专家的评审结果进行统计后，获得评审专家半数以上投票的共60份作品进入终评阶段。

### 七、作品终评

竞赛终评会于2015年4月8日在北京召开。经专家组讨论，一致推选M. Norbert Fisch教授担任本次终评工作的评审组长。在他的主持下，评审专家组按照简单多数的原则，集体讨论和公正客观地评选作品，通过四轮的投票，共评选出42项获奖作品，其中一等奖2名、二等奖4名、三等奖6名、优秀奖30名。

Energy and more than 50 other similar websites; at the same time, the Organizing Committee reached out to the University of Montreal, Universidade Presbiteriana Mackenzie, Universitat Polytechnic University of Catalonia in Spain, as well as more than 30 other foreign Universities to publish and promote the competition.

### 5. Registration and Works Submission

Registration for this competition was from June 1<sup>st</sup>, 2014 to January 1<sup>st</sup>, 2015; A total of 1232 teams registered via the competition's official website; among these, 36 teams were outside mainland China's borders, including Japan, Germany, France, Spain, Canada, USA, Sweden, Brazil, Egypt, Italy, Korea and China's Hong Kong, Macao and Taiwan regions. As of March 1<sup>st</sup>, 2015, the Organizing Committee has received 265 competition entries from Germany, Brazil, Italy, Canada, Egypt and Hong Kong and mainland China; among these, 250 were valid entries.

### 6. Preliminary Evaluation

On March 5<sup>th</sup>, 2015, the organizing committee submitted all works for preliminary evaluation. Each expert reviewed and assessed the criteria for the entries according to the rules of the competition, and selected 60 entries that they deemed worthy of further evaluation. On March 10<sup>th</sup>, after rigorous review from our competition experts, the Organizing Committee gathered all the data from the review and voted to select 60 entries for final evaluation (a majority vote was necessary).

### 7. Final Evaluation

The competition's final evaluation was held in Beijing on April 8<sup>th</sup>, 2015. During the final evaluation, Professor M. Norbert Fisch was unanimously elected as the leader for the final assessment review. Under his leadership, the expert review group collectively discussed and selected works objectively and fairly; using a simple principle of majority rule, they went through 4 rounds of voting and selected 42 winning entries; including 2 first place awards, 4 second place awards, 6 third place awards and 30 excellence awards.



终评会现场 Scenes of final evaluation conference



讨论作品 Discussion

终评专家组合影 Members of final evaluation jury



## 2015台达杯国际太阳能建筑设计竞赛评审专家介绍

### Introduction of Jury Members of International Solar Building Design Competition 2015

#### 评审专家

#### Jury Members



**Deo Prasad:** 国际太阳能学会亚太区主席，澳大利亚新南威尔士大学建筑环境系教授

Mr. Deo Prasad, Asia-Pacific President of International Solar Energy Society (ISES) and Professor of Faculty of the Built Environment, University of New South Wales, Sydney, Australia



**Peter Luscuere:** 荷兰代尔夫特大学 (TU Delft) 建筑系教授

Mr. Peter Luscuere, Professor of Department of Architecture, TU Delft, the Netherlands



**M. Norbert Fisch:** 德国不伦瑞克理工大学教授 (TU Braunschweig)，建筑与太阳能技术学院院长

Mr. M. Norbert Fisch, Professor of TU Braunschweig, president of the Institute of Architecture and Solar Energy Technology, Germany



**Mitsuhiro Udagawa:** 国际太阳能学会日本区主席，日本工学院大学建筑系教授

Mr. Mitsuhiro Udagawa, President of ISES-Japan and professor of Department of Architecture, Kogakuin University



崔愷：国际建协竞赛委员会委员、中国建筑学会常务理事、中国工程院院士、中国建筑设计院有限公司名誉院长、总建筑师

Mr. Cui Kai, Commissioner of International Union of Architects, Standing Director of Architectural Society of China, Academy of China Academy of Engineering, Honorary President and Chief Architect of China Architecture Design Group



喜文华：甘肃自然能源研究所所长，联合国工业发展组织国际太阳能技术促进转让中心主任，联合国可再生能源国际专家，国际协调员

Mr. Xi Wenhua, Director-General of Gansu Natural Energy Research Institute; Director-General of UNIDO International Solar Energy Center for Technology Promotion and Transfer; expert in sustainable energy field from United Nations, international coordinator



林宪德：台湾绿色建筑委员会主席，台湾成功大学建筑系教授

Mr. Lin Xiande, President of Taiwan Green Building Committee and Professor of Faculty of Architecture of Success University, Taiwan



冯雅：中国建筑西南设计研究院副总工程师，中国建筑学会建筑热工与节能专业委员会副主任

Mr. Feng Ya, deputy chief engineer of Southwest Architecture Design and Research Institute of China; deputy director of special committee of building thermal and energy efficiency, Architectural Society of China



仲继寿：中国可再生能源学会太阳能建筑专业委员会主任委员，国家住宅工程中心主任

Mr. Zhong Jishou, Chief Commissioner of Special Committee of Solar Building, Chinese Renewable Energy Society and Director of China National Engineering Research Center for Human Settlements



黄秋平：华东建筑设计研究院副总建筑师

Mr. Huang Qiuping, vice-chief architect of East China Architecture Design & Research Institute



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