

2017 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 2017

阳光 · 颐养

SUNSHINE & CARE FOR THE ELDERLY,
FOR THE FUTURE

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

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银龄化背景下, 在何种建筑中, 以何种方式安度晚年为大众所关心。2017 台达杯国际太阳能建筑设计竞赛以“阳光·颐养”为主题, 分别选取陕西西安和福建泉州赛题, 针对生态颐养服务中心进行设计, 面向全球征集作品, 希望通过优化建筑设计手段, 整合适宜的可再生能源技术, 让老人沐浴幸福的阳光, 让建筑为老人创造安全、健康、舒适、便利、绿色的新生活。

本书可供高等学校建筑设计相关专业本科生、研究生及建筑师参考阅读。

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“老有所养、老有所依、老有所乐”是国人对幸福生活的追求，老龄服务是对中华民族孝、亲、敬、养等传统文化的传承、转化和更新。银龄化背景下，在何种建筑中，以何种方式安度晚年更为大众所关心。本次竞赛以生态颐养服务中心设计为契机，希望通过优化建筑设计手段，整合适宜的可再生能源技术，让老人沐浴幸福的阳光，让建筑为老人创造安全、健康、舒适、便利、绿色的新生活。

感谢台达环境与教育基金会资助举办2017台达杯国际太阳能建筑设计竞赛。

谨以本书献给致力于颐养产业的设计、建设和践行者。

The concept of “looking after elderly people carefully, providing them with dependence and assistance, and making them enjoy happy life” demonstrates Chinese pursuit of happiness, so the elderly service develops into the inheriting, transformation and renewal of traditional Chinese culture including filial piety, intimate relations, respect and living support. Under the background of aging, everyone is paying attention to what kind of building they will live in, and how to spend their twilight years. Through optimizing architectural design means and integrating appropriate renewable energy technology, solar energy can bring sustainable energy for buildings and the buildings can create a safe, healthy, comfortable, convenient, green new life for the old.

Gratitude is given to the Delta Environment and Education Foundation for hosting the International Solar Building Design Competition 2017.

The book aims to pay tribute to those designers, builders and practitioners who are dedicated to the industry of elderly care.

阳光·颐养

Sunshine & Care for the Elderly, For the Future

当今，我国人口老龄化的趋势日益加快，已经成为世界上老年人口总量最多的国家，未来 20 年是我国老年人口增长最快的时期，养老服务需求日益提升。我国已初步形成以居家为基础、社区为依托、机构为支撑的养老服务体系，但养老设施数量、环境、结构等方面都尚有不足。不断增长的养老服务需求与相对缓慢的养老服务业发展引起社会各界的高度关注。



西安生态颐养服务中心项目地表景观
Earth Landscape of the Ecological Elderly Care Service Center in Xi'an City Project

国际太阳能建筑竞赛关注当下最具现实意义的热点问题，聚焦“养老服务产业”这一时代的命题，以“阳光·颐养”为主题，组委会分别选取陕西西安和福建泉州赛题，针对生态颐养服务中心面向全球征集作品，希望通过优化建筑设计手段，整合适宜的可再生能源技术，让太阳能为建筑带来永续的能源的同时，为老年人创造安全、健康、舒适、便利、绿色的新生活。两个赛题均定位为养老设施，分属不同气候区，对于竞赛成果在不同地区落地具有较强的现实意义。西安生态颐养服务中心项目结合生态田园养老社区的建设需求，建设适用于寒冷地区的生态颐养服务中心。泉州生态颐养服务中心项目结合德化瓷都印象生态园的定位，建设适用于中亚热带气候区的生态颐养服务中心。

本届竞赛收集到的作品质量较之往届有很大的提升，两个一等奖作品结合赛题，充分考虑老年人的需求，并用与当地气候特点相匹配的主被动技术，具有极高的建筑可实施性和技术经济性。为更好地总结太阳能建筑的设计、教学与实践方法，竞赛组委会首次增设了优秀设计方法奖，鼓励参赛团队从设计方法学角度不断提升，并根据赛题的实际情况设计出最契合的作品。

“梦想照进现实”，获奖作品实地建设是竞赛的一大亮点。在社会各界的支持下，往届竞赛的优胜作品通过深化设计后得以实际建设，其中包括杨家镇台达阳光小学、龙门乡台达阳光初级中学、吴江中达低碳示范住宅和青海农牧民定居农宅等。值得一提的是，自 2015 届竞赛起，竞赛获奖作品首次实现了成组示范建设。目前，项目的一、二、三等奖和优秀奖获奖作品即将在青海省湟源县兔耳干村建设完成，组委会将组织力量对这些建成项目进行运行测试，为青海乃至全国的新农村建设提供技术支撑。

经过十余年的发展和完善，国际太阳能建筑设计竞赛已经步入到一个新的发展期。竞赛作为行业智慧共享、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的定位也不断地深入推进。新的时期，竞赛将承载绿色希望，肩负绿色使命，成就绿色梦想。

Currently, the increasingly rising trend of aging population enables China to become the country with the largest population in old age. The next two decades will witness rapid increase of China's aging population and more demands for elderly care service. China has preliminarily developed into the residence-based elderly care service system supported by communities and institutions. However, there are still some shortages in such aspects as the amount of elderly care service facilities, environment, structure and other facilities. As a result, both the increasing demands for elderly care service and relatively slow development of elderly care service industry arouse intensive attention in various fields of the society.

International solar building competitions focus on current hot issues with the most practical significance and the theme of the era of “elderly care service industry”. Themed on “Sunshine and Care for the Elderly”, the Organizing



Committee of International Solar Building Design Competition adopts contest themes of Xi'an, Shaanxi Province, and Quanzhou, Fujian Province, and collects works worldwide with respect to ecological elderly care service centers. The move, through optimizing architectural design means and integrating appropriate renewable energy technology, aims to create a safe, healthy, comfortable, convenient, green new life for the old while ensuring that solar energy is able to bring sustainable energy for buildings. The two contest themes, oriented towards facilities for the elderly, standard for different climate regions, which enjoys substantially practical significance for contest results in different regions. The Ecological Elderly Care Service Center in Xi'an City project spares no efforts to build a service center appropriate in cold regions concerning the demands for building ecological communities for the elderly care. While the Ecological Elderly Care Service Center in Quanzhou City project strives to build a center appropriate in subtropical climatic regions based on the positioning of Dehua Porcelain Impression Ecological Park.

Quality of the works collected in this competition has made remarkable progress than those of previous years, as the two works winning the first prize are highly operable in construction and economical in technology by giving full consideration to the needs of the elderly given the contest themes, and adopt both active and passive technologies matched with local climate. To draw a better conclusion of designing, teaching and practice methods of solar buildings, the Organizing Committee adds the prize for excellent designing methods for the first time, encourages the teams to make constant improvement from the

perspective of designing methodology, and designs the best-quality works according to actual conditions of the contest themes.

Actual construction based on award works highlights the competition with the slogan of "putting the dream into practice" . Thanks to support from all sectors of the society, those excellent works from previous competitions have been constructed after in-depth design, including the Delta Sunshine Primary School in Yangjia Town, Delta Sunshine Junior High School in Longmen County, Zhongda Low-carbon demonstration residence in Wujiang City, and farm houses for farmers and herdsmen of Qinghai Province. To be mentionable, it was the first time that the award works have been able to be constructed by groups for demonstration since the competition in 2015. At present, the building projects in Tuer gan Village, Huangyuan County, Qinghai Province are going to be completed on the basis of the works winning the first prize, second prize, third prize and excellency award, and the Organizing Committee will join efforts to conduct operation tests for those completed projects, providing technical support for construction of new rural areas in Qinghai and even China.

Over a decade of development and improvement sees a new development period for the International Solar Building Design Competition. As a comprehensive platform on sharing industrial wisdom, service of new energy application, practice of award works, new ways of cultivating talents, and spread of low-carbon concept, the competition will adhere to its positioning and step up more efforts to make progress. It will assume the hope, bear the mission, and achieve the results in developing ecological green landscape.

过程回顾

General Background

2017 台达杯国际太阳能建筑设计竞赛由国际太阳能学会、中国可再生能源学会、全国高等学校建筑学学科专业指导委员会主办，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，中国建筑设计研究院有限公司协办，台达环境与教育基金会冠名。在社会各界的大力支持下，竞赛组委会于 2016 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、作品评审等一系列活动。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

面对已经到来的“银色浪潮”，在何种建筑中、以何种方式安度晚年成为大众的关注点，本届竞赛题目最终确定为“阳光·颐养”，通过组织专家实地考察，最终选取陕西西安和福建泉州两个真实项目，针对生态颐养服务中心进行设计，确定了设计竞赛的场地建设条件，编制了两个赛题的设计任务书。

二、竞赛启动

2016 年 6 月 16 日，2017 台达杯国际太阳能建筑设计竞赛在北京启动。中国房地产业协会副会长兼秘书长冯俊，中国建筑学会理事长、中国建设科技集团



2017 台达杯国际太阳能建筑设计竞赛正式启动
The International Solar Building Design Competition 2017 was launched

This competition is sponsored conjointly by the International Solar Energy Society, the Chinese Renewable Energy Society (CRES) and National Supervision Board of Architectural Education (China), organized by the China National Engineering Research Center for Human Settlements and the Special Committee of Solar Buildings, CRES, and co-organized by the China Architectural Design Institute Co., Ltd with the title sponsor of the Delta Environmental & Educational Foundation. With full cooperation of all the relevant organizations, the Organizing Committee for this competition was set up in January of 2016; 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 positive responses and active participation from industry experts at home and abroad.

1. Competition Preparation

In the face of “aging tide”, the competition finally sets its theme as “Sunshine and Care for the Elderly” as people are paying attention to what kind of building they will live in, and how to spend their twilight years. After field trips of experts, it chooses the two actual projects in Xi'an of Shaanxi Province, and Quanzhou of Fujian Province with respect to ecological elderly care service centers, specifies site construction conditions for designing the competition, and produces task books for designing of the two contest themes.

2. Competition Start-up

On June 16, 2016, the International Solar Building Design Competition 2017 was initiated in Beijing. Many guests attended the opening ceremony of the competition, including Feng Jun, Vice President and Secretary General of the China Real Estate Association, Xiu Long, President of the Council of the Architectural Society of China and Chairman of the Board of the China Construction Technology Consulting Co., Ltd, Wu Qiufeng, Inspector of the China National Working Committee Office on Aging and the former Director of



股份有限公司董事长修龙，全国老龄办巡视员、原事业发展部主任吴秋风，中国可再生能源学会秘书长李宝山，中国可再生能源学会副理事长孟宪淦，台达环境与教育基金会董事长郑崇华，世界银行“中国城市建筑节能和可再生能源应用项目”执行主任田永英，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等嘉宾出席并参加了竞赛启动仪式，共同为“2017 台达杯国际太阳能建筑设计竞赛”启动揭幕。

本届竞赛分别选取不同气候区，针对生态颐养服务中心面向全球征集作品。其中，西安生态颐养服务中心项目定位于养老设施，为西安及周边地区的健康和轻度失能老年人提供长期养老养生服务。竞赛题目结合生态田园养老社区的建设需求，充分应用太阳能等可再生能源技术，利用周边优越的自然环境，建设适用于寒冷地区的绿色、低碳、健康的生态颐养服务中心；泉州生态颐养服务中心项目定位于养老设施，为福建及周边地区健康和轻度失能老年人提供长期养老养生服务，并向居住在瓷都印象生态园内的老年人提供社区养老服务。本项目结合德化瓷都印象生态园的定位，充分应用太阳能等可再生能源技术，利用周边优越的自然环境，建设适用于中亚热带气候区的绿色、低碳、健康的生态颐养服务中心。

三、校园巡讲

国际太阳能建筑设计竞赛巡讲是本项活动的重要组成部分，自启动以来，得到了清华大学、天津大学、东南大学、重庆大学、山东建筑大学等国内众多建筑院校的大力支持，逐渐成为一项具有影响力的校园公益活动，也吸引了大批富有激情与梦想的青年设计师积极参与竞赛。

2016 年 9 月 11 日，国际太阳能建筑设计竞赛组委会走进西安科技大学，与师生们围绕国际太阳能建筑设计竞赛进行了交流。竞赛巡讲团一行还前往了西北工业大学、西安交通大学、长安大学和西安建筑科技大学等院校进行校园巡讲。随后，竞赛巡讲团继续前往广西、福建等地，分别在广西大学、桂林理工大学、福州大学、华侨大学、厦门大学开展校园巡讲。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。

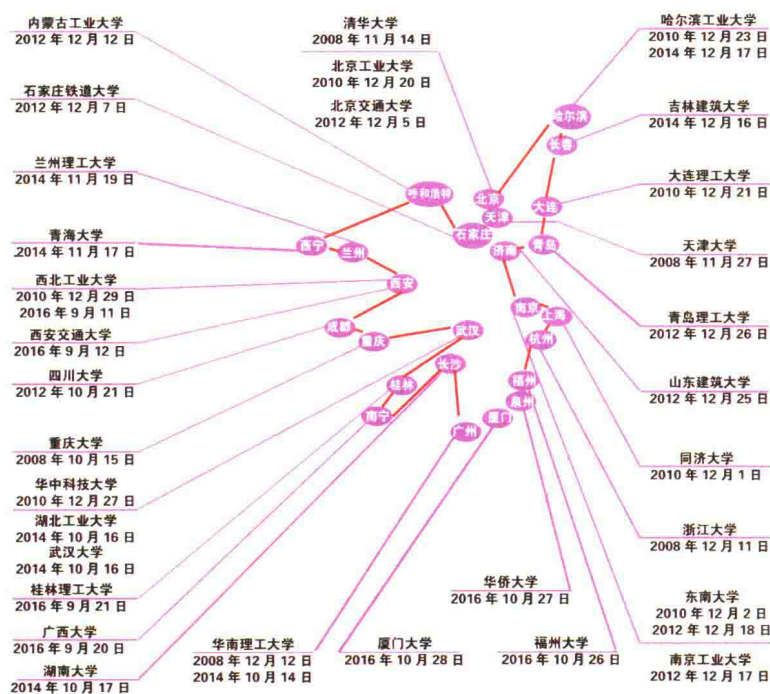
the Business Development Department, Secretary General Li Baoshan and Vice President of the Council Meng Xiangnan of the CRES, Zheng Chonghua, Chairman of the board of the Delta Environmental & Educational Foundation, Tian Yongying, Executive Director of the “Projects on Building Energy Saving and Renewable Energy Application in China’s Cities” of the Word Bank, and Zhong Jishou, Chairman of the Special Committee of Solar Buildings, CRES, and they launched the inauguration ceremony for the competition.

The competition adopts different climate regions respectively to collect works worldwide specific to ecological elderly care service centers. The positioning of the Ecological Elderly Care Service Center in Xi’an City project is located on facilities for the elderly. It provides long-term care and health services for people’s health and the old with mild disability in Xi’an and surrounding areas. The title of the contest considers the construction demands of ecological rural care community, making full use of solar energy and other renewable energy technologies and surrounding superior natural environment to build a green, low carbon, and healthy ecological maintenance service center that is suitable for the cold regions. The positioning of the Ecological Elderly Care Service Center in Quanzhou City project is also located on facilities for the elderly, which can provide long-term health cultivation service for old people who are health or mild disability in Fujian and the surrounding area and provide community service for the old people living in the Dehua Porcelain Impression Ecological Park. This project is combined with the position of the ecological park, making full use of solar energy and other technologies of renewable energy, utilizing peripheral superior natural environment, to construct green, low-carbon and health service centers for ecological elderly care, which is suitable to subtropical climate regions.

3. Campus Tours

Campus Tours for the International Solar Building Design Competition constitute an integral part of this event. Since its inception, Tsinghua University,

国际太阳能建筑设计竞赛校园巡讲



巡讲地图 Map of campus tours

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》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 等 50 余家网站上报道或链接了竞赛的相关信息；同时，组委会与诺丁汉大学、谢菲尔德大学等 30 余所国外院校取得联系并发布了竞赛信息。

Tianjin University, Southeast University, Chongqing University, Shandong Jianzhu University and many other domestic architectural colleges and universities have given us their support. As a result, the tours have gradually become public benefit activities with much influence on campuses and attracted a large number of passionate young designers to actively participate in the competition.

On September 11, 2016, the Organizing Committee of International Solar Building Design Competition went to Xi'an University of Science and Technology, and made exchanges and communication with teachers and students there centered on the competition. The members of campus tours for the competition also left for several colleges and universities, such as Northwestern Polytechnical University, Xi'an Jiaotong University, Chang'an University, and Xi'an University of Architecture and Technology. Later, they continued to start their trips to some places including Guangxi Province and Fujian Province, and delivered campus tours respectively in Guangxi University, Guilin University of Technology, as well as Fuzhou University, Huaqiao University, and Xiamen University. Zeng Yan, Chief Architect of the China National Engineering Research Center for Human Settlements, worked as the keynote speaker of campus tours, and made an speech centered on trend and status quo of applying solar building technologies, analysis of award works from previous competitions, and introduction to the competition of this year. The campus tours in which teachers and students enjoyed in-depth understanding of solar building design competitions and energy saving technologies, stimulated aspirations of designing for participant teams, and increasingly more people registered the competition later.

4. Media Campaign

Since initiation of the competition, the Organizing Committee has been making efforts to popularize its media influence through many channels, including a bilingual website that reported real-time competition progress



华侨大学巡讲现场
Scenes of campus tour in Huaqiao University



桂林理工大学巡讲现场
Scenes of campus tour in Guilin University of Technology



厦门大学巡讲现场
Scenes of campus tour in Xiamen University



福州大学巡讲现场
Scenes of campus tour in Fuzhou University



西安交通大学巡讲现场
Scenes of campus tour in Xi'an Jiaotong University



西安科技大学巡讲现场
Scenes of campus tour in Xi'an University of Science and Technology

五、竞赛注册及提交情况

本次竞赛的注册时间为 2016 年 6 月 16 日至 2017 年 1 月 1 日，共 1193 个团队通过竞赛官网进行了注册，其中，中国大陆以外的注册团队 25 个，包括日本、加拿大、英国等国家和中国港澳台地区。截至 2017 年 3 月 1 日，竞赛组委会收到德国、美国、韩国等国家和中国港、澳、台地区提交的参赛作品 239 份，其中有效作品 232 份。

and spread scientific knowledge for solar buildings, set keyword searches on Baidu, enabling public searches much more convenient and much easier to log into the competition website, published special edition for advertising the competition in China's *Architectural Journal*, *Architecture Technique* and other professional magazines, published the information about competition's organization and advertisement in more than 30 printed media platforms including the *Science and Technology Daily*, *China Construction News*, delivered the report or set up links of relevant information for the competition on more than 50 websites, such as Xinhua Net, Tencent and ABBS. Meanwhile, the Organizing Committee reached out to more than 30 foreign Universities, including the University of Nottingham and the University of Sheffield, and release information about the competition.

5. Registration and Works Submission

The registration time of the competition ranged from June 16, 2016 to January 1, 2017, and a total of 1,193 teams made registration via the competition website. Among them, there were 25 registered teams outside the mainland of China, including such countries as Japan, Canada and UK, as well as Hong Kong, Macao and Taiwan regions of China. As of March 1, 2017, the Organizing Committee had received 239 participation works from such countries as Germany, US, and South Korea, as well as China's Hong Kong, Macao and Taiwan regions, 232 of which were valid.

6. Preliminary Evaluation

On March 5, 2017, the Organizing Committee would submit all the valid works to the jury of preliminary evaluation. Each expert would review all the works according to the evaluation requirements regulated in the Competition Evaluation Methods, and select 100 works into the next evaluation process by an order of decreasing number of votes for works. After strict review of those experts, the Organizing Committee would deliver the statistics of evaluation



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

六、作品初评

2017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,按照作品票数由高到低,共有100份作品进入中评。经过竞赛评审专家的严格审查,组委会对所有专家的评审结果进行统计后,按照作品票数由高到低,共58份作品进入终评阶段。

七、作品终评

竞赛终评会于2017年4月18日在北京召开。在终评会上,经专家组讨论,一致推选喜文华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,通过三轮的投票,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。



results from all the experts, and select 58 works for the final evaluation in accordance with the vote orders from high to low.

7. Final Evaluation

The final evaluation conference was conducted in Beijing on April 18, 2017. Through the discussion of expert groups at the conference, Professor Xi Wenhua was unanimously selected to assume the group leader of evaluating the works in this competition. During his presiding over the conference, the evaluation jury made collective discussion and fair evaluation about the works according to the principle of simple majority. Three-round votes saw 42 award works selected, two of which won the first prize, four of which won the second prize, six of which won the third prize, and 30 of which won the excellence award.



终评会现场 Scenes of final evaluation conference



终评专家组合影 Members of final evaluation jury

2017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 2017

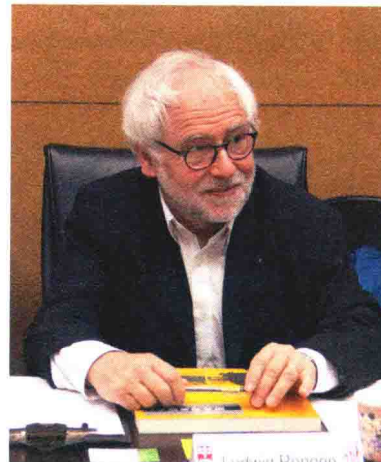
评审专家（终评）

Jury Members (Final Evaluation)



杨经文：汉沙杨有限公司（马来西亚）
总裁

Kenneth King Mun YEANG, President
of T. R. Hamzah & Yeang Sdn. Bhd.



Ludwig Rongen：德国埃尔福特应用
科技大学教授

Ludwig Rongen, Professor of University
of Applied Sciences, FH Erfurt



M. Norbert Fisch：德国不伦瑞克理工
大学教授，建筑与太阳能技术学院院长
M. Norbert Fisch, Professor of TU
Braunschweig and President of the
Institute of Architecture and Solar
Energy Technology, Germany



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

Lin Xiande, Professor of Cheng Kung
University, Taiwan



庄惟敏：清华大学建筑学院院长
Zhuang Weimin, Dean of School of
Architecture, Tsinghua University



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，国家住宅与居
住环境工程技术研究中心主任
Zhong Jishou, Chief Commissioner of
Special Committee of Solar Building,
CRES and Director of CNERCHS



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
Xi Wenhua, Director-General of Gansu
Natural Energy Research Institute



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
Feng Ya, Deputy Chief Engineer of
Southwest Architecture Design and
Research Institute of China



黄秋平：华东建筑设计研究院副总建
筑师
Huang Qiuping, Vice-Chief Architect
of East China Architecture Design &
Research Institute

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