BACH KHOA INVESTMENT & DEVELOPMENT OF SOLAR ENERGY CORPORATION (Head Office)

No 47, Le Van Thinh Street, Quarter 5, Binh Trung Dong Ward, District 2, HCMC, Vietnam

Email: info@solarbk.vn | Website: solarbk.vn

REPRESENTATIVE OFFICE OF BACH KHOA INVESTMENT & DEVELOPMENT OF SOLAR ENERGY CORPORATION

A18, Villas My My, Nguyen Hoang Street, An Phu Ward, District 2, HCMC, Vietnam

• No 310, Street 30/4, Chanh Nghia Ward, Thu Dau Mot City, Binh Duong Province, Vietnam Tel: (+84.28) 6255 8092 I Ext: 7000

• No 70, Le Hong Phong Street, Phuoc Hai Ward, Nha Trang City, Khanh Hoa Province, Vietnam

• No 349, Hoang Hoa Tham Street, Lieu Giai Ward, Ba Dinh District, Hanoi, Vietnam Tel: (+84.28) 7305 8687

CENTRAL REGION SOLARBK INVESTMENT AND DEVELOPMENT CORPORATION

No 400, Street 2/9, Hoa Cuong Bac Ward, Hai Chau Dist, Da Nang City, Vietnam

Email: info@solarbk.vn

IREX ENERGY JOINT STOCK COMPANY

No 47, Le Van Thinh Street, Quarter 5, Binh Trung Dong Ward, District 2, HCMC, Vietnam

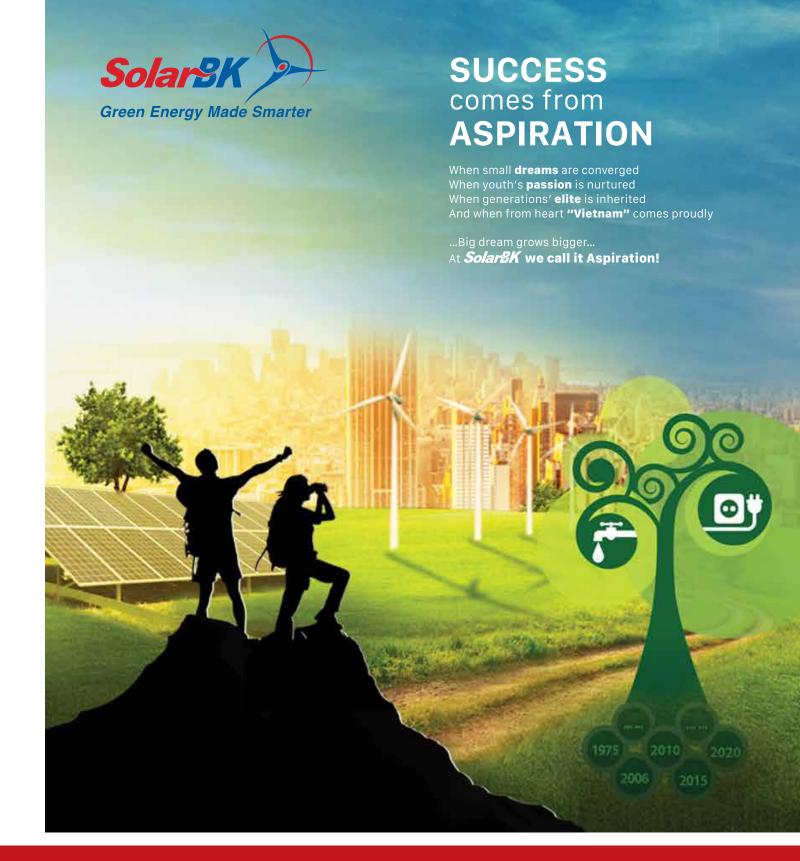
Tel: (+84.28) 7300 1559 | Fax: (+84.28) 6255 8093

Email: info@irex.vn | | Website: irex.vn

Factory: No. 1A Street, Phu My 1 Industrial Zone, Tan Thanh District, Ba Ria - Vung Tau Province, Vietnam

SOLAR ESCO JOINT STOCK COMPANY

A18, Villas My My, Nguyen Hoang Street, An Phu Ward, District 2, HCMC, Vietnam Tel: (+84.28) 6685 4535



THE COMPANY PROFILE

BACH KHOA INVESTMENT & DEVELOPMENT OF SOLAR ENERGY CORPORATION

Hotline: 1900 636 759





Part I THE INTRODUCTION

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Part III **APPENDIX** Dear valued customers,

The application of new energy-saving and renewable energy technologies is not only a top choice for improving competitiveness, but also the best way to demonstrate commitment to environmental protection as well as responsibility for the future generation.

The United Nations Conference on Climate Change (COP) in many years that set the tone for global climate change, including Vietnam. If the new economic trends like participating TPP (Trans-Pacific Economic Partnership Agreement) or joining the ASEAN economic community, which would help to Vietnam GDP growth over 5 %, few people can notice that climate change is causing Vietnam to lose no less than 5 % per year.

Understanding the above, Bach Khoa Investment & Development of Solar Energy Corporation (SolarBK) has the passion in research and development to fulfill its mission of bringing clean energy to life with a variety of applications, convenience and low cost in order to solve the problem not only for businessman but also for individual customers.

Proud of a foundation in 40 years of scientific research; more than 10 years of experience carry out the major projects, the national level topics and pioneering work to show the concept: "Providing energy saving solutions must be accompanied by a commitment"; We believe that Customers will have a firm belief that together with solarBK to build a clean and green living environment and contribute to bringing the Vietnam's brand to the international level.

Wish Customers success and sustainable development.

Respect.

Ho Chi Minh city, 2017 **GENERAL DIRECTOR**

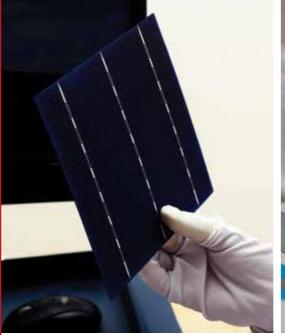






Part 1
INTRODUCE ABOUT COMPANY

















A team of professors from Thai Nguyen University of Engineering and Bach Khoa Hanoi University of Technology started conducting research on renewable energy. Professor, and later SolarBK's co-founder, Nguyen Huu Hung served as Project



The Research Center for Thermal Equipment and Renewable Energy (RECTERE) of Ho Chi Minh City University of Technology conducted a piloting program to install water heating and solar, wind energy equipment to generate electricity for irrigation.

RECTERE was the only agency national projects of this type assigned by the Ministry of and Technology Science (MOST).



RECTERE developed its own specially designed wind turbine. Professor Nguyen Huu Hung took charge of the Ministerial-level project "Darrieus type wind turbine successfully developed by Professor Nguyen Huu Hung under the Ministerial-level project of the same name. The Ministry of Education awarded the project commissioned this project by with Certificate of Merit for Ho Chi Minh city Department Innovative solutions and of Science of Technology. Training.

Our first commercially viable solar water heater Solar-BK-3 came to market as result of the research project "Complete design and technology for solar water heaters in Vietnam for residential and industrial use".

Company co-founder, Professor Duong Thi Thanh Luong



In the year 2004 the Solar Water Heater product, SolarBK® was officially in the Vietnam market. The product attracted great attention of press and news agency.

This period considered the initial phase of the Solar Water Heater industry in Vietnam.



Bach Khoa Investment and Development of Solar Energy Company (SolarBK) was founded to bring research to market. Former professors and researchers of RECTERE served as board of directors and executive advisors. With decades of experience at RECTERE.

SolarBK's purpose is to contribute to the development and widespread use of green energy in Vietnam.



Transformed into Joint Stock Company with bigger ambition and goal.

Received ISO 9001: 2000 certificate.

Implemented Clean Energy project for entire Spratly Islands and DK1 platform.

1975

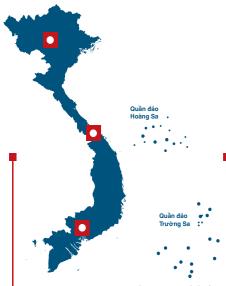
1990

1994

2004-2005

2006

2008



SolarBK's member companies and subsidiaries were established throughout Vietnam

- 8/2009: Establishment of Central SolarBK.
- 10/2009: Establishment of Southern SolarBK.
- 01/2010: Establishment of Northern SolarBK







- Social responsibilities are part of SolarBK's mission through our participation in community projects.
- SolarBK also respects strictly the Labour Law and Tax Law of Vietnam. We were Top 100 Best companies in Vietnam Gold Star Award 2011
- Our own Corporate Quality Development department ensures necessary actions will be taken for sustainable development and maintain corporate values. In the same year, SolarBK awarded Energy Saving certification for Solar water heating products by the Ministry of Industry and Trade and achieved Quality Management System certification ISO 9001:2008.
- March 2012: SolarBK Participated in Vietnam's Earth Hour campaign.
- June July 2012: Awarded Globe Energy Award for "Hybrid power supply system for the Spratly Islands using solar and wind energy". SolarBK also signed the UN Global Pact on Energy and Environment.
- October November 2012: SolarBK and Vietnam Electricity (EVN) successfully deployed ESCO model under the direction of the Ministry of Industry and Trade.
- December 2012: IREX Energy Joint Stock Company established to produce solar panels realizing SolarBK vision to exploit energy for common use.



• September 2013: IREX Energy Joint stock company was awarded with IEC 61215:2005 and IEC 61730: 2004 issued

by TÜV Rheinland for solar panels.

- Mr. Nguyen Duong Tuan SolarBK's CEO became Energy Globe Ambassador and special Representative of Energy Globe 2013.
- October 2013: SolarBK announced its official pledge "60% Energy Saving Guarantee" for industrial scale solar water heater systems, became the first company in Vietnam to issue such quantitative commitment.
- Hundreds of Hotel, Factory all over the country using the Industrial scales Solar Water heating system installed by SolarBK



- Since 2014, SolarBK had been the first and only representative of Vietnam's top firms at annual international exhibition of renewable energy - Intersolar and Solar Power International.
- In April 2015, SolarBK has been successfully completed the pilot desalination project in Song Tu Tay -Truong Sa island. This application is spred speading over other islands.
- · Energy Savings Commitment Solar Monay Back Guarantee - which is guaranteed by the banks is a breakthrough in the renewable energy market in Vietnam: "Committed Energy Savings Solutions".
- · Inauguration of SolaireViet Cell factory whose automation rate is up to 100%.



• May 2016

SolarBK won the Energy Globe Award 2016 with the project " Sea water filters with clean energy on Southwest Cay island (Song Tu Tay, Truong Sa)

Khanh Hoa Power Company and the Bach Khoa Investment & Development of Solar Energy Corporation launched the ESCO model that provides comprehensive energy solutions to its customers, including auditing, redesigning and implementing changes to the ways the customer consumes energy, the main goal being improved efficiency.

• July, 2016

Opening the SolarBK showroom at Nha Trang city, Khanh Hoa Province.

Febuary, 2017

IREX energy corporation, member of SolarBK has started to expand investment project "the high-tech renewable energy complex".

- March 2017
- Opening the SolarBK showroom at Binh Thuan nrovince

2011 2009

2012

2013

2014-2015

2016-2017

MADE SMARTER

VISION

Green Utility Company

MISSION

Bring clean energy to life with a variety of applications, close, convenient and lower price.

BRAND PHILOSOPHY

SUCCESS comes from ASPIRATION

Based on the available capacity of science and technology, passion for Research & Development, we always nurture our aspirations and step by step realization of big dream: bring SolarBK - Vietnam become the bright spot on the world clean energy map.



TRUST

With the concept of trust is the foundation of the durable relationship between partners, customers and SolarBK, we always aim to honesty and willingness to commit responsibly.

PERSISTENCE

A unit have a foundation for research and development and the determined clean energy is the world's future energy, we know that persistence companion and sharing of accomplishments with the community is the key to fulfilling our mission.







CREATIVITY

SolarBK always have the right investment in the improvement, the technological application in products, solutions and quality management. Continuous innovation has helped us to improve our reputation and to confirm our position as the leader in the fields.



TEAMWORK

SolarBK is a united body of people with the same ambitions, aspirations. With us, success is always the result of hard working, serious work of



With the spirit of learning from colleagues, customers, partners and practicality is the intensive training programs, which are held regularly in solarBK to maintain and improve the level of personnel department.



Company name (Vietnamese):

CÔNG TY CỔ PHẦN ĐẦU TƯ VÀ PHÁT TRIỂN NĂNG LƯƠNG MẶT TRỜI BÁCH KHOA

Company name (English):

BACH KHOA INVESTMENT AND DEVELOPMENT OF SOLAR ENERGY CORPORATION

Transaction (Acronyms):

SolarBK®

Contacts:

No 47, Le Van Thinh Street, Quarter 5, Binh Trung Dong Ward, District 2, HCMC, Vietnam

Tel: (+84.28) 7300 6759 I Fax: (+84.28) 6255 8093 Website: solarbk.vn Email: info@solarbk.vn

Certificate of business registration:

No. 0304194942 - First issued: 10/16/2008, 7th of revised: 28/08/2017 By Department of Investment Plan Ho Chi Minh city

Name of legal representation:

NGUYEN DUONG TUAN - POSITION: GENERAL DIRECTOR

Company type:

JOINT STOCK COMPANY

Main business sectors:

Consulting, designing and delivering energy saving solutions, clean energy solutions. The production of solar water heating machine, consultant-designer-constructor for the solar water heating solutions with industrial scale. Researching technology and put it to use in life.



SỐ KỂ HOẠCH VÀ ĐẦU TƯ THÀNH PHÓ HỘ CHÍ MINH PHÒNG ĐĂNG KÝ KINH DOANH

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM Độc lập - Tự do - Hạnh phúc

GIÁY CHỨNG NHẬN ĐĂNG KÝ DOANH NGHIỆP CÔNG TY CÓ PHẦN

Mã số doanh nghiệp: 0304194942

Đăng ký lần đầu: ngày 16 tháng 10 năm 2008 Đăng ký thay đổi lần thứ: 7, ngày 28 tháng 08 năm 2017

1. Tên công ty

Tên công ty viết bằng tiếng Việt: CÔNG TY CÓ PHÂN ĐẦU TƯ VÀ PHÁT TRIỂN NANG LUONG MAT TROI BÁCH KHOA

Tên công ty viết bằng tiếng nước ngoài: BACH KHOA INVESTMENT & DEVELOPMENT OF SOLAR ENERGY CORPORATION Tên công ty viết tắt: BK-IDSE CORP

2. Địa chỉ trự sở chính

47 Lê Văn Thịnh, khu phố 5, Phường Bình Trung Đông, Quận 2, Thành phố Hồ Chí Minh, Việt Nam

Diện thoại: (08) 7300 6759 Fax: (08) 6255.8093 Email: info@solarbk.vn Website: www.solarbk.vn

3. Vốn điều lệ

Vốn điều lê: 30.000.000.000 đồng

Bằng chữ: Ba mươi tỷ đồng Mệnh giá cổ phần: 10.000 đồng Tổng số cổ phần: 3.000.000

4. Người đại diện theo pháp luật của công ty

* Họ và tên: NGUYỄN DƯƠNG TUẨN

Giới tính: Nam

Chức danh: Tổng giám đốc

Sinh ngày: 23/06/1976 Dân tộc: Kinh

Quốc tịch: Việt Nam

Loại giấy tờ chứng thực cá nhân: Chứng minh nhân dân

Số giấy chứng thực cá nhân: 022930648

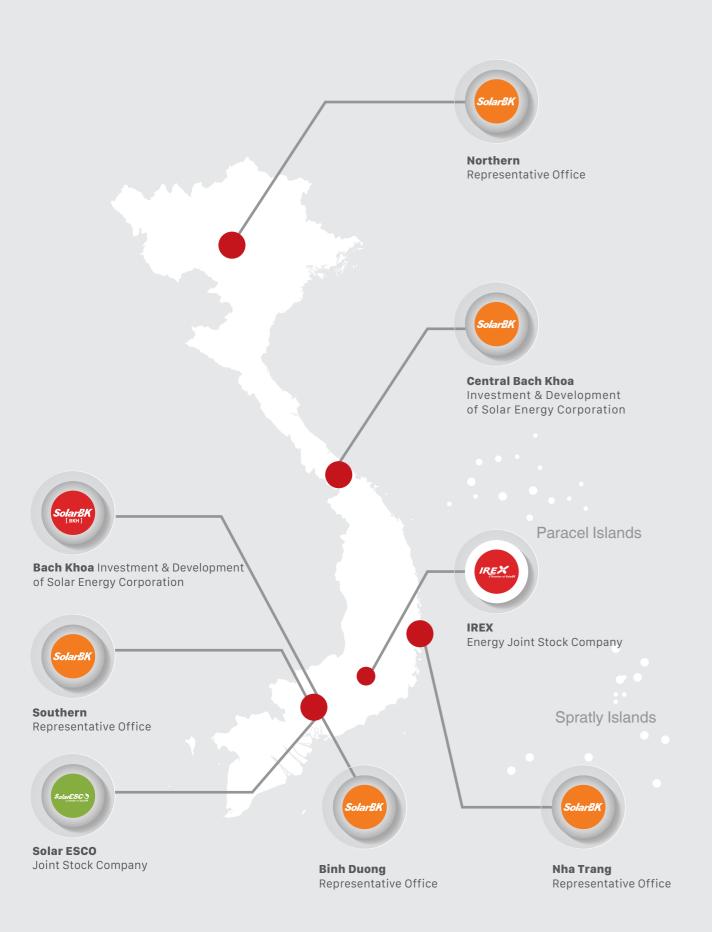
Ngày cấp: 05/08/2008 Nơi cấp: CA TP HCM

Nơi đẳng ký hộ khẩu thường trú: 98/111/19 Cách Mạng Tháng Tám, Phường 5, Quận Tân Bình, Thành phố Hồ Chí Minh, Việt Nam

Chỗ ở hiện tại: 98/111/19 Cách Mạng Tháng Tám, Phường 5, Quận Tân Bình, Thành phố Hồ Chi Minh, Việt Nam



Hô Hoành Son





IREX ENERGY JOINT STOCK COMPANY

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Factory: No. 1A Street, Phu My 1 Industrial Zone, Tan Thanh District,

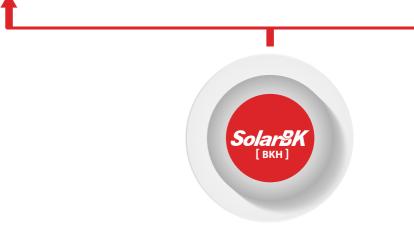
Ba Ria -Vung Tau Province, Vietnam

Tel: (+84.254) 392 3594 | Fax: (+84.254) 392 3594



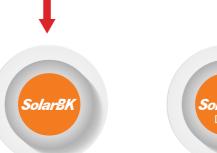
SOLAR ESCO JOINT STOCK COMPANY

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District 2, HCMC, Vietnam
Tel: (+84.28) 6685 4535 | Fax: (+84.28) 6281 8837



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I Website: solarbk.vn



SOUTHERN REPRESENTATIVE OFFICE

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No 400, Street 2/9, Hoa Cuong Bac Ward, Hai Chau Dist, Da Nang City, Vietnam Tel: (+84.236) 374 9279 Fax: (+84.236) 374 9079



NORTHERN REPRESENTATIVE OFFICE

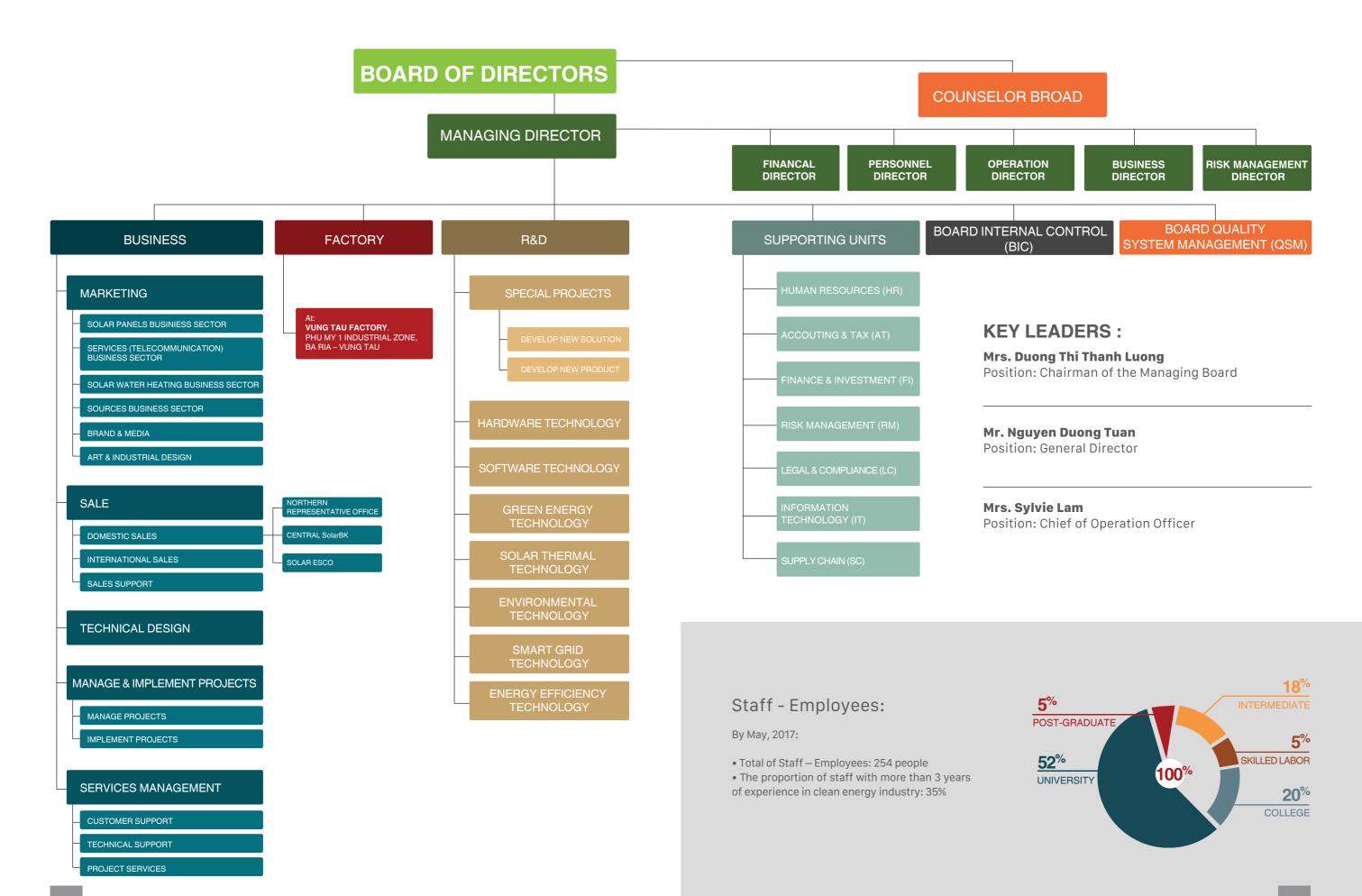
No 349, Hoang Hoa Tham Street, Lieu Giai Ward,Ba Dinh District, Hanoi, Vietnam Tel: (+84.24) 7305 8687

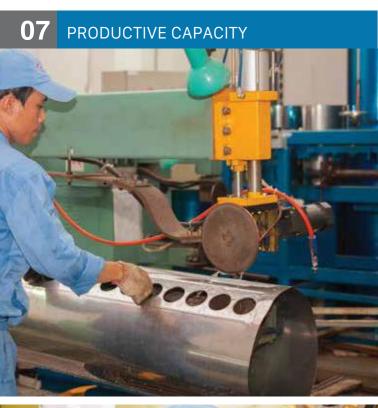


CENTRAL REPRESENTATIVE OFFICE

No 70, Le Hong Phong Street, Phuoc Hai Ward, Nha Trang City, Khanh Hoa Province, Vietnam Tel: (+84.28) 6255 8092 Ext: 6000

13





SOLAR WATER HEATING

PRODUCT FACTORY



Persistence in research and application of new technologies into production, products and solutions, we are always confident and committed to quality, to meet the needs and requirements of domestic and foreign markets.

SolarBK's products and manufacturing processes meet the following criteria:

- Quality management system ISO 9001: 2015
- National standard (TNVC) in the design of control equipment, electrical equipment, safety equipment
- IEC standard on equipment selection
- 5S standard on workplace management and improvement





Always apply modern technology into production, SolarBK has invested:

- Solar water heating production line in Vietnam according to international standards
- Swiss thermal absorption (CFP) production line













The IREX — member of SolarBK found in 2012. The company include skilled personel, factory, the most modern production lines that reach up to a capacity of 300 MW/year. We are proud to be the first Vietnam enterprises that produce solar cells (solar) with international standards at a competitive price.

"Mono" and "Poly" solar panels line with capacity from 35 kWp to 300 kWp per panel that are exported to European and US's market.





By strictly follow the production process, quality, environment, occupational safety. We constantly improve and apply latest technologies such as Multi-busbar, PERC, Anti-PID ... Due to structural changing internal and external of solar cells such as increasing number from 3, 4 to 5 busbar. The latest technology also helps to to counter diffusion of the particles loading to the outside and increases the energy conversion efficiency of the IREX solar panels by 3% (both Poly and Mono). In particular, Mono-Crystalline PV have a high energy conversion efficiency, reaching nearly 20%. We meet international standards:

- Design standards compliance to IEC 61215
- Safety standards compliance to UL 1703
- Safety standards compliance to IEC 61730
- Quality Management System ISO 9001: 2015

Quality Policy

BACH KHOA SOLAR INVESTMENT & DEVELOPMENT CORPORATION

With the goal of using "TECHNOLOGY & INTELLECTUAL PROPERTY", Bach Khoa Solar Investment & Development Corporation (SolarBK) wants to make a difference in product and service business philosophy SMALL CHANGES — BIG DIFFERENCE

The Board of Directors and all employees of SolarBK commit to:

- Constantly researching and developing new solutions.
- Reasonable product price.
- Professional, dedicated customer service.
- Building a professional working environment based on the aspirations, trust, creativity, collective spirit, learning and perseverance of each individual.
- Building, implement, maintain and continually improve the quality management system in accordance with ISO 9001: 2015.

HCMC, June 10, 2017

GENERAL DIRECTOR



NGUYEN DUONG TUAN





The commitment is guaranteed by applying International and Vietnamese standards in producing:

- Quality management system ISO 9001: 2015.
- National standard (TNVC) in the design of control equipment, electrical equipment, safety equipment:
- 1. TCVN 7447: Elictric installations of building.
- **2. TCXDVN 319:** Installation of equipment grounding system for industrial works General requirements.
- **3. TCXDVN 394:** Design and installation of electrical equipment in construction works Electrical safety.
- 4. TCXDVN 263: Installation of cables and wires for industrial works.
- Standards:
- 1. IEC 60269-1: Low voltage fuses-Part 1: General requirements.
- **2. IEC 60364-5-52:** Electric installation of building-Part 5-52: Selection and erection of electrical equipments-Wiring systems.
- 3. IEC 60947-2: Low-voltage switchgear and controlgear-Part 2: Circuit Breaker
- **4. IEC standard** on equipment selection.
- 5S standard on workplace management and improvement.

As a R&D driven enterprise, SolarBK keeps up with the latest trends in technology and services. Some outstanding results:

- Apply information technology to improve work efficiency. Besides investing in network infrastructure, the company also uses software, especially open source code.
- Building Research & Development (R&D)
 Department with modern facilities. Have good relationships with universities, especially Polytechnics, to recruit elite students, and combine new technology training with long-standing partners: Mitsubishi, Outback Power, Ritar, etc.
- Raise the sense of "green culture" in the staff by the activities: Earth Hour, Only air conditioning when needed, saving electricity - water, etc.

SOLAR SYSTEM OPERATION CENTER

SSOC TM

Successfully Researching and applying remote control solution, creating breakthrough and bring big difference in the designs of the company to the market. Currently, most SolarBK systems are available for monitoring and control on websites and applications on mobile. When the Solar System Operation Center detects a error of system, it will send notification. In addition to SSOC visual monitoring function (capacity, voltage, temperature, etc. the system SSOC™ helps customers with actual efficiency evaluation of the system in real time. It is available for exporting excel file, send inspection email.

Research and development of the control devices which combines wifi, Ethernet, GMS for monitoring, control on SSOC, including:

- iStar: a small-scale solar water heater controller
- iSolarBK: The control panel of solar water heating system with industrial-scale
- **iLight**: a light solar controller
- **iBoK**: the monitoring combine remote controller with Base Transceiver Station
- iDesal: a sea water filtering controller combines a remote monitoring via GSM
- **iGenSet**: the controller with an electric generator of the hybrid system between solar and battery of accumulator

Following a requesting project, we will combine or separate a monitoring, controller Belink: the controller and a data collection which use collect, transmit data with the solar water heater or solar power system.









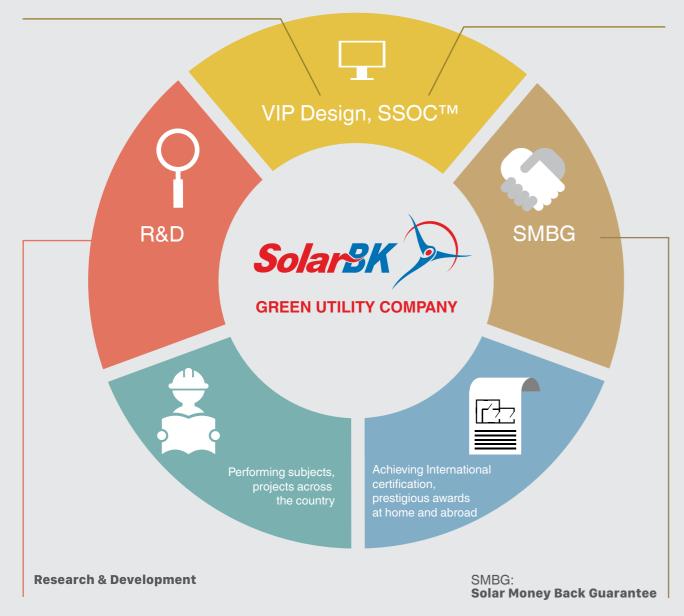
Continuous improvement of the design and materials of the SolarBK water heating product series such as adding 4-corners shoot pad of heat sink, change of foot design, Solar tank can separate the absorption plate, it offers the ability to conceal tanks that meet installation on tiled roofs and still maintain aesthetics, so on.



Water tanks are placed underneath the roof, helping to enhance the aesthetics of the house.

VIP Design & Tailored to every project

Unique & featured design for each project, SSOC: Solar System Operation Center



At SolarBK, we focus on research and application of advanced technology in the world, while improving to reduce costs, advancing the product features.



In the field of water heating product:

- Investing in the production line of heat-absorbing CFP panels using Swiss technology, SolarBK now researches and localizes 100% of this product line.
- Anti-corrosion technology of materials in the saline environment.
- Intelligent control technology, control software is optimized and reprogrammable without replacing hardware devices.
- In designing industrial water heating solutions, we apply advanced technologies such as:
- Analytical solution using the f-chart: F-Chart to help calculate the contribution rate of the solar heating system in the system.
- Powerful solution Φ-Utilisabilité helps to calculate the energy that the system can obtain.
- Adaptive algorithm based on various values to control convection pumps, applied to the device controller.
- Siemens Industrial Communications Network Monitoring and Data Acquisition Control System (SCADA) 2D-3D modeling for error control and monitoring.
- Design & re-model the system on the computer, analyze & optimize the pressure, flow before the actual construction.
- The solution provided the output water heating no more than 5 seconds after the water opened.
- The solution allows 150% overloading compare to the original design.

In the field of clean energy - renewable energy:

By linking with leading businesses around the world, SolarBK offers products that incorporate the latest technologies, representative:

- The solar panel (PV) uses the technology of producing a 4 bus bar which makes the cells smaller, less heat-emitting, and more efficient, and lasts longer than conventional PV panels. Lead-free / non-welding technology (first in Japan) and environmentally friendly silicone material, anti-reflective, BSF surface.
- The MPPT (peak power search) algorithm is used in the charge controller to optimize the charging time while minimizing battery life, overloading for the battery.
- Wind motors use the technology to control the transmitter brake which is considered the safest today. Radio waves monitoring & controlling technology.
- Use of materials and anti-corrosion technology, making the device usable in harsh environments (islands, coasts,etc.)
- Pure sinusoidal inverters technology applied when converting DC power into a stable alternating current that meets the standard for use on all types of electrical equipment.
- DC-AC switching technology, applied in power backup systems, when power outages occur, the system switches to backup power for periods of less than 16 milliseconds, enabling electrical appliances (Computers, lights, etc.) operate normally.
- And many other technological applications.

24

2008 - Now

Many Clean Energy projects (including solar water heating projects) have been implemented and operated effectively.

2009

Certificate of Merit presented by the Marine Command to the company has achieved excellent achievements in participating in the implementation of Truong Sa Clean Lighting and Energy Pilot Project in 2009.

2010 - 2011

A certificate of merit from the head of the HCMC Tax Department. Ho Chi Minh City and well implemented tax policies in 2010 and 2011.

Certificate of Merit and Gold Cup Vietbuild 2010 Solar water heating brand SolarBK.

A Certificate of Merit by the Marine Corps Command to Bach Khoa Investment & Development Corporation for its excellent performance in the implementation of the "Clean Energy and Lighting Project for Spratly Islands and DK Platform" on December 23, 2014.

Certification of energy-saving products.

Certificate of energy saving products issued by the Ministry of Industry and Trade.

TOP 100 VIETNAM BRAND Golden Star Award 2011. ISO 9001: 2008 certification.

Certificate of Merit by the People's Committee of Ben Tre Province "Actively supporting material for Voluntary Youth Movement in Ben Tre Province".

Certificate of Merit and Gold Cup Vietbuild 2009 Solar water heating brand SolarBK.

2012 2013

The Clean Energy and Lighting Project for the Truong Sa and DK Platform won "The Energy Globe Award 2012".

IREX's PV panels are issued "Certificate of Product Quality, International Standard" by TUV Rheinland Shanghai.

2014

SolarBK is the first and only representative of Vietnam participating in the international exhibition on clean energy - InterSolar, Germany.

2015

Inaugurated the solar cell production line with 100% automation.

Continue to participate in InterSolar as an annual activity.

2016

SolarBK won the Energy Globe Award 2016 – with the project "Sea water filters with clean energy on Southwest Cay island (Song Tu Tay, Truong Sa)".

2017

SolarBK's flat plate solar collector CFP-C-200 was certified Solar Keymark issued by TUV. SolarBK's flat plate solar collector CFP-C-200 was certified solar collector issued by SRCC.™

OTHER SOCIAL ACTIVITIES

2010



Sponsored and participated in "Earth Hour" event organized by World Wildlife Fund.

SolarBK Implemented the program "Gathering the sunshine - Lighting the remote countryside" in 2011: sponsoring a clean energy generation system for poor households in Hoa Vang district - Da Nang with a total value of VND 500 million (Co-sponsored by Mitshubishi).

2011



2013



SolarBK joins 350.org to announce the launch of the Vietnam Power Shift campaign to limit the use of clean energy, limiting CO, emissions in everyday activities and production.

SolarBK and the Energy Development MAN Center (EDEC) sponsored Nguyen Ba Ngoc Primary School, Quana Hoa Commune, Dak Giong District, Dak Nong Clean energy generation system with a total capacity of VND 320 million (Co-sponsored by others)

2015



2016



SolarBK awards a scholarship to the best talent students who are entering Manufacturing Engineering, Power Delivery for Industrial, Faculty of Electrical & Electronics Engineering and Thermal Engineering at Cao Thang Technical College and Nguyen Tat Thanh University.

SolarBK celebrates Green Summer. The company has donated 50 sets SolarBK lights and solar batteries for people in remote areas without electricity to trawl in Thanh Phu District – Ben Tre Province.

Annual Years





















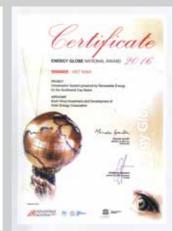






























































































1. Typical state projects

1991 - 1992

State level project:

"Researching, designing, manufacturing high-pressure headwater pump" (1991). The project has been excellently evaluated by the State Council for Pre-acceptance Test on 28/3/1991.

"Slow Wind Generator" (1992). This topic was excellently evaluated and awarded the Certificate of Merit by the Council of Ministers in Official Letter No. 375-CT dated 02/11/1991.

1994 - 1996

State level project:

"Completing the technology of wind power generation and wind power pumping engine" - in 1994. The project was excellently evaluated by the Council for Pre-acceptance Test.

State level project:

"Soft-axis vertical wind turbine engine" (1994-1995). The project was excellently evaluated by the Council for Pre-acceptance Test.

City level Science project:

"Constructing a wind energy village model for Thieng Lieng-Can Gau - Can Gio" (1995). The project has installed 50 PD-170-6 wind turbine generators.

Ministerial level project:

"Darrenus soft-axis wind turbine engine" (1994). The project was excellently evaluated by the Ministry of Education and Training for the creative solution of the topic.

Science and Technology supporting project:

"Building wind energy village model for Vinh Nguyen island ward - Nha Trang". The project installed 50 PD-170 wind turbine generators (1995). The project was excellently evaluated by the Council for Pre-acceptance Test.

The project is sponsored by a number of international organizations such as the Switzerland-Vietnam Friendship Association:

The French-speaking community organization (ACCT) provided financial support for the installation of 200 PD-170-6 wind turbine generators and soft-axis vertical wind turbine motors for some southern provinces (1995-1996).

1997 -1999

State level project:

"Research on the ability to exploit the use of wind energy in mountainous areas and islands in the South" (1997).

Ministerial level project:

"Experimental research of vertical soft-axis wind turbine engine for shrimp farming" (1998). The project was fairly evaluated by the Council for Pre-acceptance Test.

Ministerial level project:

"Research on the application of the 100 kW Wind - Diesel Combination" (1999). The project was fairly evaluated by the Council for Pre-acceptance Test.

2001 - 2004

Ministerial level project:

"Researching on electrification of Vietnamese islands by 50 kW - 500 kW Wind - Diesel combination" (2001-2002). The project was fairly evaluated by the Council for Pre-acceptance Test.

KC-07-04 State level project:

"Researching on selection of technologies and equipment for exploiting and using renewable energy in agricultural, forestry and fishery processing, living and environmental protection in rural areas" (2001-2003). The project was excellently evaluated by the Council for Pre-acceptance Test and Won 3rd place at Science and Engineering Fair (VIFOTECH).

Province project:

"Building wind power model for life and activities for Vinh Chau District, Soc Trang Province" (2002-2003). The project was fairly evaluated by the Council for Pre-acceptance Test.

State level project:

"Power Solutions for remote areas of the Mekong Delta" (2002). The project was excellenty evaluated by the Council for Pre-acceptance Test.

Project funded by the World Bank (WB):

"Evaluation of Wind Source Quality of Phu Quoc Island District" (2003-2004).

Project in CT-04 program of the Department of Science and Technology Ho Chi Minh City:

"Technology and design improvement for solar water heating in Vietnam for family and industrial scale" (2003-2004).

2007 - 2009

Project key Ho Chi Minh City National University:

"Technology improvement, diversification of products for mass deployment of solar water heating" (2007-2008).

2012 - 2015

Project:

"Complete technology for localization of 1 kW - 3 kW rechargeable / grid-connected wind turbine combined with remote monitoring capabilities over GSM and anti-corrosion variants," under the Sector Development Scheme Vietnam's environmental industry to 2015 with a vision to 2025 " (2012-2013).

Project:

"Research on the application of technologies for saltwater and brackish water into mobile water using wind energy and solar energy", under the program "Scientific research, application and technology transfer development. Environmental industry "to implement the project" Development of Vietnam's environmental industry to 2015 with a vision to 2025 " (2013-2014).

Project:

"Research on technology to improve the used battery life to reduce environmental pollution" under the program "Scientific research, application and technology transfer development of environmental industry" The project "Development of Vietnam's environmental industry to 2015 with a vision to 2025" (2013-2014).

Project:

"Experimental production of solar water heating for industrial scale", under the project "Development of Vietnam's environmental industry up to 2015, vision to 2025" (2014-2015).

2. Survey and evaluate projects to the potential wind

1991 - 1992

Survey on potential wind in Can Gio

Tool: The Second Wind – USA.

Researching Time: 1 year / survey height: 20 - 30m / project sponsored by: Federation of Science in South California.

State-level project management "Production of wind turbines for water pumps and generators serving rural areas of Vietnam". This project was awarded by the Council of Ministers, under Decision No. 370-CT dated November 2, 1991. State-level project management for rural areas in Vietnam".

1993 - 1996

Project management at the state level in the application of renewable energy (wind energy) to provide energy to remote, mountainous and island areas of Vietnam. So far, more than 800 wind turbine power supply systems have been installed and installed in more than 40 provinces in Vietnam. Direct the establishment of the wind village on the islands of Nha Trang, Khanh Hoa, Thieng Lieng, Can Gao Island, Can Gio District, the remote area of Cuu Long Delta.

Project management installed 100 wind generators for farmers in remote and island areas of 10 provinces in Vietnam with the support of the Swiss-Vietnamese Association.

Project Management "Wind Energy Development for Southern Rural Areas" with the installation of 100 wind turbines for water pumps and generators in 20 regions supported by ACCI / IEPF (Canada).

1997 - 1999

Evaluated on potential wind at Bach Long Vy island

Tool: NRG 9200 PLUS - USA.

Researching Time: 1 year / Survey height: 20 - 30m / Project sponsored by: DANIDA (Denmark).

Survey and evaluated on potential wind at Ca Na

Tool: NRG 9200 PLUS – USA.

Researching Time: 1 year / Survey height: 20 - 30m / Project sponsored by: DANIDA for NEG Micon.

Survey and evaluated on potential wind at Mui Ne

Tool: NRG 9200 PLUS – USA.

Researching Time: 1 year / survey height: 20 - 30m / project funded by the Ministry of Education and Training.

Together with Song Da Construction Company, carry out a pre-feasibility research for the wind farm project in Ca Na, Ninh Thuan province.

Management of the Ministry-level project "Feasibility Study of the Wind-Diesel Project for Electrification of Vietnamese Islands".

Collaborate with Denmark energy consultants (DPC / ELSAM Project) to develop a feasibility research of "100kW Wind-Diesel Power Station" for Thanh An Island, Can Gio District, Ho Chi Minh City and Bach Long Vy Island, Hai Phong.

State-level project management of rural energy supply in the Mekong Delta.

2000 - 2006

Project Management at Ministry level "Longitudinal wind turbine system for shrimp feeding".

RECTERE Center deploys 2 survey stations in Phu Quoc: at Ganh Dau Post Office (height: 30 - 40m) and at Ham Ninh Post Office (height: 40 - 50m).

Tool: NRG 9200 PLUS - USA.

Researching Time: 3 years / survey height: 30 - 50m.

State-level project management "Wind energy for rural areas". Cooperate with Electricity Company 3 to consult Wind-Diesel Project for Phu Quoc Island.

City-level project management "Solar water heating with commercial scale".

RECTERE Center deploys 3 survey stations in Phu Quoc: 1 in Dam Bay (height: 40m), 1 at Apple Garden (height: 40m).

Tool: NRG Symphony 9300 Plus – USA.

Researching Time: 2 years / survey height: 40m / project funded by World Bank RECTERE Center works as a national consultant partner.



Become a leading corporation in providing utility services from clean energy





"CONFIRMED BRAND IN VIETNAM"

- Professional solutions
- Complete quality
- Sophisticated personnel
- The structure is compact and consistent
- Optimal cost
- Careful about service
- Synchronization across the system
- Standardization of Regulatory System - Charter

2010

Solar§K



- Strategic investor team
- Partner Network in potential markets outside Vietnam
- Establishment of Green energy in Vietnam
- Participate in the development and planning of Vietnam's Green energy
- The corporation system operates effectively
- Establish relationships with commercial banks



"EXPLORE NEW AREA"

- Products meet International standard
- Execution of projects outside Vietnam
- Exporting products
- Establish a distribution system outside Vietnam
- Establish an office / joint venture company in potential markets
- Complete International Sales Department



- Improve the SolarBK brand image
- Distributed network system and interactive showroom (SolarBK Experience Space)
- Develop a remote energy management solution
- Promote and integrate business activities with environmental and social responsibility (through the "Save the environment" campaign)
- Inaugurated SolarBK Clean Energy Building
- Extend the plant, scale production

- Expand the international market

Plan to prepare the IPO

- To begin construction of a the investing extension project: the invested renewable energy production complex
- The project consists of two categories: Clean energy factory and Research & Development Center of Renewable energy product. The solar cell manufacturing plant with 150 MWp and the solar cell manufacturing plant with 200 MWp

2014

2016 - 2017

"STRAIGHT TO THE OCEAN"

2011

"INVESTMENT IN TECHNOLOGY AND INTELLECTUALS"

- Modern technology
- R&D investment affirms its position in Vietnam. Raise technical range
- Make the most of the gray matter from universities
- Certified Solar Keymark
- Leading provider of Clean Energy in Vietnam
- Make the most of the support from the government

2013

"DOMINATE DOMESTIC MARKET"

- International Standard LAB Solar Room
- Prestigious investment consultant on CE
- Involved to invest in wind / solar power plantEstablish standard system for CE equipment
- The leading Nurse Consultancy and Design
- Training Center in Vietnam

 Manufacturer of wind, solar cell & SWH
- Collector in Vietnam
- Products with reasonable price and good quality
- Diversify product support for CE

2015

"IMPROVEMENT TO INTEGRATION"



- Continue to boost investment in R&D
- Modernization and upgrading and expansion of the plant
- Acquire & develop talents
- Synchronization standardize information management system



Build international working environment & keep learning:

SolarBK is a company with an international working environment, regularly cooperating with foreign businesses to exchange knowledge and technology, and create conditions for international students to practice and work in the company.









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Part 2
BUSINESS SECTOR

SOLAR WATER HEATING SOLUTION



For residential and industrial water heating systems designed by SolarBK in modular form and optimally according to the needs and habits of customers, highly compatible with many types of surfaces, easy to upgrade and expand.

The system is controlled and can be monitored remotely by the system solar operation center (SSOC).

STANDARD

STANDARD

SOLAR WATER HEATING

OF MODERN FACILITIES











CFP-X solar water heater is designed with advanced technology. In addition, it still ensures strict aesthetic requirements in modern architecture.

The collector is a pure copper design that is protected by a low-iron tempered glass that is resistant to external impact. In addition, the CFP-X solar water heater can separate the heat sink and the sink. The system's hot water tank can be installed anywhere in your home, ensuring architectural aesthetics.

The collector has been tested and certified by the German certification body DIN CERTCO according to the Solar Keymark standard DIN EN 12975-1: 2011-01 and DIN EN ISO 9806: 2014-06.



- Culprit buried beneath the house
- Easy to install and easy to use
- Powerful pressure, rapid heating speed

CDEOLEIGATION	ТҮРЕ		
SPECIFICATION	CFP-X 220	CFP-X 320	
Dimensions (LxWxH) (mm)	2500 x 1400 x 1300	2500 x 2600 x 1300	
Capacity (liter) / users	220 liters /5-8 users	320 liters /10-12 users	
Water temperature output	45 ⁰ –	75 ⁰ C	
Collector	 Heat absorbing component: 100% pure copper pipes and plates, high durability. Chrome-plated front panel & rear nickel plate help to absorb heat Frame: The die-cast aluminum has high durability and aesthetics, with an antioxidant protective coating Insulating and protection glass: Low-Iron glass 		
Collector dimensions (LxWxH) (mm)	1960 x 1200 x 65	1960 x 1200 x 65 x 2 panels	
Hot water tank	 Inner: SUS 304 stainless steel (1.2 mm thick) Outer: powder coated steel (0.45 mm thick) Insulation: PU Foam (Polyurethane Foam) 50 mm thick using the pumping technology of High pressure foaming, good heat insulation, heat retention capacity up to 48 hours. Withstand water pressure up to 3 bars 		
Footframe	Powder coated steel		
ISTAR intelligent Resistor / Controller	Optional		
Circulation pump system	Option	al	













SMART

SOLAR WATER HEATING

NEW TECHNOLOGY

MEANS HIGH QUALITY

• Smart control application

E-Life solar water heater is designed to ensure 3 indespensable factors for the high-end applicated product line: convenient, technology, aesthetic. Moreover, hiding tub feature, increasing the aesthetic for the house, E-life is also capable of with standing the strong water pressure and rapid heating that guaranteed for customers the most relaxing



	ТҮРЕ		
SPECIFICATION	E-Life 220	E-Life 320	
Dimensions (LxWxH) (mm)	2500 x 1400 x 1300	2500 x 2600 x 1300	
Capacity (liter) / users	220 liters /5-8 users	320 liters /10-12 users	
Water temperature output	450-	75 ⁰ C	
Collector	 Heat absorbing component: 100% pure copper pipes and plates, high durability. Chrome-plated front panel & rear nickel plate help to absorb heat Frame: The die-cast aluminum has high durability and aesthetics, with an antioxidant protective coating Insulating and protection glass: Low-Iron glass 		
Collector dimensions (LxWxH) (mm)	1960 x 1200 x 65	1960 x 1200 x 65 x 2 panels	
Hot water tank	 Inner: SUS 304 stainless steel (1.2 mm thick) Outer: Powder coated steel (0.45 mm thick) Insulation: PU Foam (Polyurethane Foam) 50 mm thick using the pumping technology of High pressure foaming, good heat insulation, heat retention capacity up to 48 hours. With stand water pressure up to 3 bars 		
Footframe	Powder coated steel		
ISTAR intelligent Resistor / Controller	Integrated intelligent controller helps ensure continuous the hot water supply under all weather		
Circulation pump system	Opti	ional	











SMART

SOLAR WATER HEATING

NEW TECHNOLOGY

MEANS HIGH QUALITY

• Smart control application

Anti-corrosion technology

• Strong water pressure, rapid heating

SE-life solar water heater is a high-end, multi-technology, high-tech product in its product line. In addition to the aesthetic hiding feature of the home, the water tank is specifically designed with an enamelled technology and with anti-corrosive magnesium bars. Suitable for installation in areas near the ocean or where contaminated inputs are present.

SOLAR WATER HEATING



OPERIFICATION	ТҮРЕ			
SPECIFICATION	SE-Life 220	SE-Life 320		
Dimensions (LxWxH) (mm)	2400 x 2100 x 1070	2400 x 2900 x 1070		
Capacity (liter) / users	220 liter/5-8 users	320 liter/10-12 users		
Water temperature output	45 ⁰ –	75 ⁰ C		
Collector	 Heat absorbing component: 100% pure copper pipes and plates, high durability. Chrome-plated front panel & rear nickel plate help to absorb heat Frame: The die-cast aluminum has high durability and aesthetics, with an antioxidant protective coating Insulating and protection glass: Low-Iron glass 			
Collector dimensions (LxWxH) (mm)	1960 x 1200 x 65	1960 x 1200 x 65 x 2 panels		
Hot water tank	 Inner: SUS 304 stainless steel (1.2 mm thick) Outer: Powder coated steel (0.45 mm thick) Insulation: PU Foam (Polyurethane Foam) 54 mm thick using the pumping technology of High pressure foaming, good heat insulation, heat retention capacity up to 48 hours With stand water pressure up to 6 bars 			
Footframe	Powder coat	Powder coated steel		
ISTAR intelligent Resistor / Controller	Integrated intelligent controller helps ensure continuous the hot water supply under all weather			
Circulation pump system	Option	al		

QUICKLY ENJOYING

NATURAL

HOT WATER SOURCES

Life solar water heater provides customers with hot water right from the first minute. Vacuum tube collectors are designed with a stable performance for short-term water heating even in cloudy days. In addition to the Life 200 series, Life 300 also equipped with the intelligent iStar controller to help customers customize the parameters of temperature, water volume, time use.

Product characteristics

- Rapid heating speed, suitable for low solar radiation
- Keep heat longer, providing hot water up to
- Intelligent control technology
- Cost savings

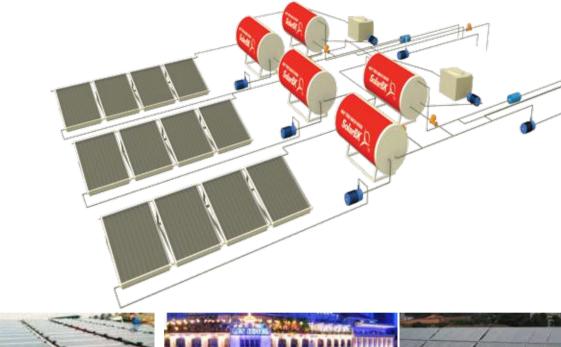


	ТҮРЕ			
SPECIFICATION	Life 150	Life 200	Life 300	
Dimensions (LxWxH) (mm)	2140 x 1495 x 1050	2140 x 1695 x 1050	2140 x 2700 x 1050	
Capacity (liter) / users	150 liters / 3- 5 users	200 liters / 4-6 users	300 liters / 8-10 users	
Water temperature output		45° – 85°C		
Dimensions of vacuum tubes	Ø58mm, ler	ngth 1.8m. Can be replaced inc	dividually.	
Number of vacuum tubes	15 tubes 20 tubes 30 tubes			
Vacuum tubes characteristics	 Material: high-quality borosilicate glass, good heat shock resistance Two-layer structure, special material coating (SS-CU-TI-N/AL), optimizes the absorption capacity by 10% Vacuum up to 5 bars (100%) Thickness: 1.8 mm 			
Hot water tank	 Inner: SUS 304 stainless steel (0.6mm thick), in direct contact with water (certified by Ministry of Health - Vietnam) Outer: SUS 430 stainless steel Insulation: Insulation: PU Foam (Polyurethane Foam) 50 mm thick using the pumping technology of High pressure foaming, good heat insulation Plastic tank cover PP CO 			
Footframe	Reflective panels help increase the efficiency of heat absorption SUS 430 stainless steel.			
ISTAR intelligent Resistor / Controller	Optional			
Circulation pump system	Optional			

EXPERIENCE THE DIFFERENCE OF SOLAR WATER HEATER FROM SolarBK

OUTSTANDING ADVANTAGES

- The quality of products meets TCVN standards and is strictly managed according to ISO 9001: 2015.
- Superior technical features with intelligent control system ensures 24/24-hour hot water, even in the water Weather conditions are not favorable.
- Competitive price.
- Meet the complexity of every building.
- Warranty for over 5 years, after-sales service, with customer care centers and agents throughout. Ensure that the problem is resolved within 24 to 48 hours after receiving the notification.
- Products obtained Energy Saving Certificate from Ministry of Industry and Trade.
- Applying the program "Providing energy saving solutions must be accompanied by commitments" (SMBG - Solar Money Back commitment Guarantee). With this program, customers will be guaranteed to compensate for the difference between committed saving sand the fact.



PRODUCTS

Boostek INVERTER CABINET





In order to meet the constant pressure requirements of the water supply, the output pressure is always stable for high-grade industrial water heater projects, specially designed FC202 inverter series. Water supply and waste water treatment, rotary / boost pump control up to 8 pumps, protection up to IP68, Display 5 graphic parameters with capacity up to 1400kW. Origin: Denmark - European Imports High quality. PID control feature that can be applied to closed-loop control systems. The application of this inverter in the water supply system will bring many advantages such as low cost, high level of automation, full of protection functions, easy to operate and effective. Clearly save on water and energy consumption.

In addition to the Modularization design of each component, the upgrade and control of each component is very flexible, easy. High security is a hallmark of the system, by designing and manufacturing to industry standards, focusing on the ability to warn and protect themselves when there is an error.

CONTROL PANEL FOR BlogiK® INDUSTRIAL WATER HEATING SYSTEM



Control panel for BlogiK industrial water heating Is an outstanding achievement in the design and operation of solar water heating systems with a capacity of 5.000 liters / day or

- BlogiK[®] consists of 2 versions:

 . BlogiK [®] Pro: Using PLC Siemens Germany
 . iSolarBK[®]: Using microcotroller ATMEL Germany
- **CONTROL PANEL** FOR SOLARBK BKOMMANDER WATER HEATING SYSTEM



Control panel for SolarBK BKommander Solar water heating systems Is an outstanding achievement in the design and operation of solar water heater systems with small scale, simple, high economic efficiency.

Bheatek Plus WATER HEATING PRODUCT CONTROLLER



- Bheatek Plus V6.0 is an upgraded version of the Bheatek Plus controller that improves the quality and performance of the
- The product was born to meet the needs of industrial water heaters projects with complete expansion of the hardware, which requires high stability.
- The product was born to demonstrate the initiative in SolarBK's system control solutions, to better prepare for Water Heating Product projects, to actively utilize the technology, components and features desired.

HEAT PUMP SYSTEM





Operating principle of Heat Pump:

Operating principle of Heat Pump:

• Heat Pump water heating device is the solution to provide safe hot water with high efficiency up to 400%, saving from 70 - 80% of energy consumption..

The main task:

- Heating for hot water when solar energy does not provide enough the required temperature, ensuring constant hot water under all weather conditions..
- Heat pump heating system is suitable for Insudtrial Scale.

Use hot water / heating for production or business with MAXIMUM COST IS 80% COMPARED TO CURRENT COST

ESCO MODEL

It is the form of investor completely invested machine system solar water heater at the production base of the customer, and collect money based on the efficiency of electricity savings due solar water heating system brings back.

EFFICIENCY SAVING

- ✓ Invest100%
- Quality service
- Saving efficiency

ESC JOINT VENTURE







ESCO joint venture between the Electricity Corporation South (EVN SPC) and SolarBK are established based National policy (*) to support Vietnamese enterprises keep up the international trend on energy usage saving & efficiency, improving competitiveness by how to apply the ESCO model in business production activities

(*) Document No. 10315 / BCĐ-TKNL guiding the Group electricity of Vietnam in cooperation with Bach Khoa investment and Development of Solar Energy Corporation develops the ESCO model.

VB 3262 - SPC - ESCO Electricity of Vietnam assigned to the general southern Power Company jointly launched ESCO with the Sun encyclopedia adopts a business cooperation

Business Co-operation Contract No. 01.2014 / HDTVKD dated 22/9/2014 about the capital contribution to the ESCO partnership

BENEFITS FOR BUSINESS

Do not invest

No worries about technology

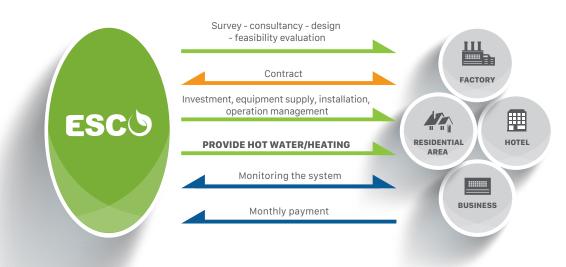
No operating costs

Use clean energy

Increase brand value

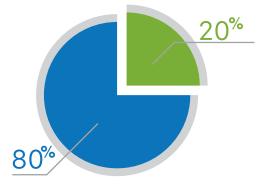
Increase competitiveness

ESC MODEL



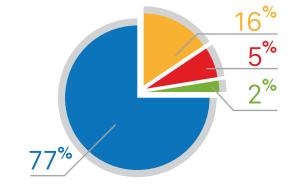
Typical projects: CASEAMEX - Can Tho

Contribution rate



Heatpump system Solar system

Energy distribution



Rate of power consumption of the heat pump

The rate of power consumption of pumps (return, pressure)

The rate of energy loss

Energy saving rate of SolarBK system





Other Projects



CLEAN ENERGY SOLUTION



Meet the benefits of the environment and reduce operating costs (OPEX) for businesses.

With a series of large projects (buildings, residential clusters, etc.) with high efficiency when using SolarBK solar power system providing solutions and construction, we are proud to be the leading brand in this field.

THE OFF-GRID

STANDALONE PV POWER SYSTEM

An off-grid standalone PV Power system suitable for remote areas as islands where there arr limited access to electricity from the national power grid. This solution can be designed with renewable energy resources such as solar or wind energy combined with diesel generators and back-up batteries for continuous electricity supply 24/7.

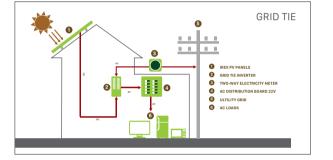
THE GRID-TIE

PV POWER SYSTEM

A grid-tie PV Power system is especially suitable for areas where the national power grid is available. This system will use the photovoltaic power as the first priority pwer supply for the electrical appliances. If the electric power comes in excess, this surplus of energy will be transferred to the national power grid. When the system is short of electricity, it will take power from the national grid as a supplementary power source.

- The grid-tie system's advantages are the lowest investment cost compared to the other PV solutions, sustainability and longevity.
- The grid-tie system's drawback is the shutdown of the system when the electricity from the national power grid is cut off.

OFF-GRID IREX PV PANELS CHARGE CONTROLLER BATTERY MEETER A C DISTRIBUTION BOARD A C LOADS

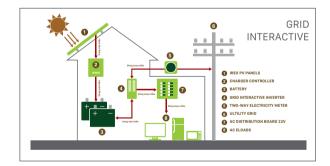


THE GRID-INTERACTIVE

PV POWER SYSTEMTEM

A grid-interative PV power system is the same as a grid-tie PV power system but the former comes equipped with back-up batteries.

- The grid-interactive system's advantage is to maintain the power supply to the load even when the national power grid is cut off. It is suitable for the areas where electricity suppliers are unstable.
- The grid-interactive system's drawback is the higher investment cost in comparison with the grid-tie system.



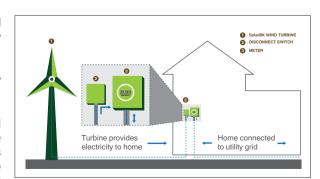
WIND TURBINE

The wind turbine system includes: the wind turbine, the tower and control & connection systems. Some systems also include a battery system to store electricity.

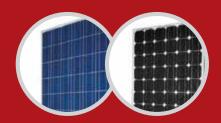
Once impacted by wind, the turbine will spin and generate electricity commensurate with wind speed.

The generated energy is controlled by the wind turbine's integrated controller to provide AC power to the house. This electricity is the first priority for usage by the loads. In cases the load demand is higher than energy from the wind turbine, the electricity from the grid will be added. However, if the load deman is lower than energy from the wind turbine, the excess energy will sell back to the grid. This wind power solution is for areas already connected to the national power grid.

For areas where the national grid is unavailable, batteries are added to the system to store energy from the wind turbine and energy balance control system.

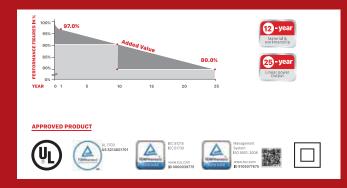


IMPORTANT COMPONENTS OF THE SYSTEM



PHOTOVOLTAIC (PV) PANELS

- These Made-in-Vietnam PV panels are produced by Irex, a member of SolarBK. These panels comply with international standards such as UL (USA) and IEC (Europe).
- Irex PV panels warranty is 12 years for materials or technical faults and 25 years for performance decline.





INVERTER/CHARGER: OUTBACK and SMA

- An inverter converts DC current into AC current and is intergrated with the charge controller and the lagging AC current converter. The intelligent multi-status battery charge function of the controller helps the battery to be long lasting. This product can also be expanded by being connected to other similar products in case more power is required.
- There are 2 types of inverter/charge controllers: the sealed one (FX) and the vented one (VFX). The sealed one can be used in the harsh conditions such as high humidity, high corrosion or dusty environment. The vented one, which is designed with anti-insect net, is available for supply high AC power in high-temperature environments.



THE PROGRAMMABLE CHARGE CONTROLLER FLEXMAX

The programmable charge controller is designed with Maximum Power Point Tracking technology (MPPY) and energy data storage. MPPT algorithm helps to increase the efficiency of the system by 30% compared to non-MPPT one. Temperature management and active cooling system makes this controller available to operate with maximum capacity evenwhen the outdoor temperature is high. FLEXmax can connect to the internet, be programmed and managed remotedly, display and provide complete information about the operating status of the whole system.



THE BACK-UP BATTERY

Inside the solar system of SolarBK are the SEC GEL Deep Cycle batteries, which are designed specifically for the frequent refill, fully discharge and high temperature conditions. This type of battery has a 40% higher life expectancy in comparison with the similar one of AGM. Its special features are: absolutely no need for the maintenance as other kinds of batteries, slow self-discharge, high stability when being discharge completely, extremely long life and being designed as a completely sealed, completely stainless, non-polluting as well as eco-friendly system.

TYPICAL PROJECTS:



Administrative Building Project Binh Duong City



Green One UN House Project Ha Noi Capital



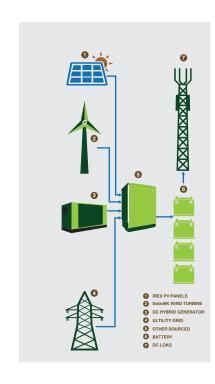
FPT City Da Nang City

GREEN ENERGY POWER SOLUTION FOR BASE TRANSCEIVER STATION - BTS



Designed and constructed by SolarBK based on combination of power, wind power, grid electricity, DC generator and electricity from other power sources, ensuring the continuous operation of BTS stations.

- The Hybrid power solution offered by SolarBK is combined of energy sources from PV Panels, wind power, grid power, hybrid generator HybridGen and Zinc-Air batteries. This solution saves operating costs by prioritizing the use of renewable energy sources for load and charged into the batteries to back up for the energy shortage case. The system works fully automatically and can be monitored remotely via the internet.
- Depending on the conditions of the particular location od the BTS, the system may be set to be used with the most optimal and economical combination of the power supply sources but still ensure enough power to supply for the load 24/7. We offer flexible solutions depending on the actual situations of the installation places.





GLOBAL POSITIONING STATION (GPS) -

AUTOMATIC PLANE SURVEILLANCE AND TRACKING STATION (ADS-B) -

ELECOMMUNICATION TRANSCEIVER STATION (BTS) -

















MICRO/MINI - GRID POWER SOLUTION

Projects for all clean energy and lighting at Spratly islands (locally known as Truong Sa) and DK1 platform

This is one of the largest Vietnam national key constructions, was invested by Naval Command and Petro Vietnam. SolarBK is the project contractor run the process of building, setting up, training and technology transferring. It ran from 2008 to 2010 and kept mantainance and upgraded continuously.

This project uses solution of hybrid system between wind energy and solar energy in large scale. It was run spreadly over 48 islands. So far, it completed more than 5.700 photovoltaic solar panels, 120 wind turbines, 60 lights, and 1.000 LED lights. It helped to save national energy and improve living standard for soldiers and citizens in islands. This project was honor to be awarded by Energy Globe 2012.



MICRO/MINI – GRID POWER SOLUTION



Suitable for areas without electricity such as islands, mountainous areas, remote areas ... The Solution combines solar power, wind power and battery electric storage system, which is ensuring uninterrupted power supply, stable.



FACTS & FIGURES

- 5.167 kWh/day (155 MWh/month) electricity output for the island group
- 2.100 liters of diesel oil saved per day (774.000 liters/year)
- 2.300 tons/year reduction of CO₂ emissions

TYPICAL PROJECTS:







DESALINATION SYSTEM



The desalination system uses wind and solar energy to power salt water filtering equipment to create drinkable water. This system is suitable for areas such as islands where there is a lack of usable water.



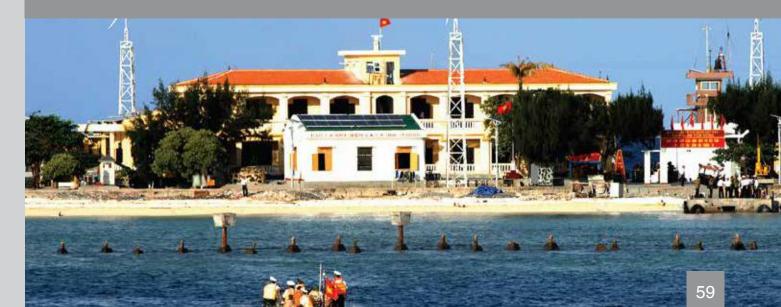






TYPICAL PROJECTS:

THE SYSTEM PURIFIES SEAWATER INTO CLEAN WATER — Pilot project in Southwest Cay island- Spartly Islands



CLEAN ENERGY GADGETS



Developed by SolarBK research and development teams such as iSolBox rechargeable suitcase, solar charging station, solar light, etc., bring clean energy closer to community and society.

















SOLAR

TURN-KEY SOLUTION SOLAR POWER, WIND POWER PROJECTS (EPC Concept – Solar Farm, Wind Farm)



From stage of investment project to design, supply of equipment, technology, construction and operating inspection, handing over package to investors.









Part III
APPENDIX
THE TYPICAL PROJECTS

1 TYPICAL IMPLEMENTED PROJECTS

2.1. Industrial scale solar water heating project

NO.	PROJECT	PLACE	CAPACITY	TIME
1	SAI GON HOTEL	НСМ	10.000 L	2006
2	LONG THUAN RESORT	NINH THUAN	16.000 L	2007
3	LAVENDER HOTEL	НСМ	4.000 L	2007
4	CAT LAI PORT CANTEEN	НСМ	4.000 L	2007
5	MORIN PHASE 1	HUE	10.000 L	2008
6	NORFOLK HOTEL	НСМ	10.000 L	2008
7	WOOSHU HOTEL	DONG NAI	16.500 L	2008
8	MAJESTIC HOTEL	НСМ	27.000 L	2008
9	BECAMEX/NEWHOLIDAY BLOCK H	BINH DUONG	18.000 L	2009
10	CAP SAINT JACQUES	VUNG TAU	11.500 L	2009
11	NORFOLK MASION	НСМ	21.000 L	2009
12	KAYA-HIEP HOA HOTEL	PHU YEN	5.000 L	2009
13	MORIN PHASE 2 HOTEL	HUE	4.000 L	2009
14	THANH VAN II HOTEL	QUANG NAM	3.500 L	2009
15	BAMBOO VILLAGE RESORT	BINH THUAN	5.000 L	2009
16	HOANG LONG FISHERY FACTORY	DONG THAP	6.000 L	2009
17	02 APARTMENT BUILDING CT 9A, CT 9C IN VIET HUNG NEW URBAN AREA by the hud corporation as the owner	HA NOI	36.000 L	2010
18	SUNRISE HOTEL	KHANH HOA	10.000 L	2010
19	SWIMMING POOL	НСМ	420.000 L	2010
20	REX PHASE 1 HOTEL	НСМ	9.000 L	2010
21	HAI QUAN HIGH SCHOOL	НСМ	5.000 L	2010
22	PUBLIC HOUSEHOLDS	НСМ	2.500 L	2010

NO.	PROJECT	PLACE	CAPACITY	TIME
23	SLAUGHTER HOUSE OF CATTLE	CAN THO	7.000 L	2011
24	DE NHAT HOTEL	НСМ	14.000 L	2011
25	VIETSOVPETRO HOTEL	LAM DONG	6.000 L	2011
26	CAI MEP PORT PHASE 2	VUNG TAU	4.000 L	2011
27	SAI GON CONTINENTAL HOTEL	НСМ	10.000 L	2011
28	REX PHASE 2 HOTEL	НСМ	8.000 L	2011
29	SAMMY HOTEL	VUNG TAU	9.000 L	2011
30	BAMBOO CENTRAL (ESCO)	DA NANG	5.000 L	2012
31	BAMBOO GREEN	DA NANG	3.000 L	2012
32	CAI MEP PORT (CONSTRUCTION)	VUNG TAU	4.000 L	2012
33	EDEN PHASE 1	KIEN GIANG	4.000 L	2012
34	HOLIDAY BEACH	DA NANG	4.500 L	2012
35	MELIA HOTEL	DA NANG	9.000 L	2012
36	MIDTOWN HOTEL	DA NANG	9.000 L	2012
37	NHI PHI HOTEL	KHANH HOA	9.000 L	2012
38	137 HAI DOI CANTEEN	DA NANG	9.000 L	2012
39	HOUSE IN AREA B - REGION 3 HAI QUAN	DA NANG	13.000 L	2012

NO.	PROJECT	PLACE	CAPACITY	TIME
40	FAMILY HOSPITAL	DA NANG	7.000 L	2013
41	TU DU HOSPITAL	НСМ	16.000 L	2013
42	BAT DAT HOTEL	НСМ	6.000 L	2013
43	BRILLIANT HOTEL	DA NANG	6.000 L	2013
44	DAU AN HOTEL	HOI AN — QUANG NAM	1.500 L	2013
45	DREAM HOTEL	LAM DONG	2.000 L	2013
46	GRAND HOTEL	НСМ	15.000 L	2013
47	HONG PHUC HOTEL	VUNG TAU	18.000 L	2013
48	KIM AN HOTEL	QUANG NAM	3.000 L	2013
49	M2 BOUTIQUE HOI AN HOTEL	QUANG NAM	13.000 L	2013
50	MEPROS HOTEL	VUNG TAU	12.000 L	2013
51	PHU THINH HOTEL	QUANG NAM	3.500 L	2013
52	SAI GON NINH CHU HOTEL	NINH THUAN	4.200 L	2013
53	SANOUVA HOTEL	DA NANG	6.000 L	2013
54	THE EMPIRE HOTEL	DA NANG	2.000 L	2013
55	THIEN DUONG XANH HOTEL	QUANG NAM	6.000 L	2013
56	MC BINH DUONG PLAZA	BINH DUONG-DA NANG	9.000 L	2013
57	MABUCHI FACTORY	DA NANG	3.200 L	2013
58	P&G FACTORY	BINH DUONG	2.500 L	2013
59	VINA KYOEI	VUNG TAU	6.500 L	2013
60	REGION 1 HAI QUAN — 4 th FLOTILLA	HAI PHONG	3.000 L	2013
61	BROTEX VN COLORED YARN FACTORY	TAY NINH	10.000 L	2013
62	PEARL HOTEL	HA NOI	3.000 L	2013

NO.	PROJECT	PLACE	CAPACITY	TIME
63	HAGL – MYANMAR	MYANMAR	47.500 L	2014
64	4 STAR SACOM TUYEN LAM HOTEL	DA LAT	20.000 L	2014
65	FURAMA HOTEL	DA NANG	2.000 L	2014
66	HOANG GIA HOTEL	QUANG NAM	8.000 L	2014
67	LA RESIDENCE HOTEL	HUE	3.000 L	2014
68	PALACE PHASE 2	VUNG TAU	7.000 L	2014
69	SAMDY DA NANG	QUANG NAM	10.000 L	2014
70	CAM THANH GUEST HOUSE	QUANG NGAI	4.000 L	2014
71	VIETNAM GAIN LUCKY FACTORY	TAY NINH	65.000 L	2014
72	OCEAN	DA NANG	7.000 L	2014
73	RICH FACTORY	BINH DUONG	24.000 L	2014
74	ANH DUONG HOTEL	HAI PHONG	6.000 L	2014
75	108 MILITARY HOSPITAL	HA NOI	75.000 L	2015
76	ISANA HOTEL	DA LAT	3.000 L	2015
77	ROYAL CLASS NHA TRANG	NHA TRANG	10.000 L	2015
78	RESORT BAYANA	NHA TRANG	1.120 L	2015
79	REGION 1 HAI QUAN – HA LONG	QUANG NINH	6.500 L	2015
80	GENERAL HOSPITAL	VINH PHUC	10.000 L	2015
81	HOI AN RIVER TOWN HOTEL	HOI AN — QUANG NAM	4.000 L	2016
82	LASENTA BOUTIQUE HOTEL	HOI AN — QUANG NAM	4.000 L	2016
83	SHANGRI-LA HOTEL	HOI AN — QUANG NAM	3.000 L	2016
84	GREEN HEAVEN	HOI AN — QUANG NAM	4.000 L	2016
85	VINH HUNG 5 HOTEL	HOI AN — QUANG NAM	3.200 L	2016

NO.	PROJECT	PLACE	CAPACITY	TIME
86	RUBY RIVER VILLA	MYANMAR	3.000 L	2016
87	VENUS HOTEL AND SPA	DA LAT	4.000 L	2016
88	PHO HOI RIVERSIDE RESORT	DA NANG	3.000 L	2016
89	BOUTIQUE HOI AN RESORT	QUANG NAM	3.000 L	2016
90	CONVALESCENT NURSING HOME 296	HUE	11.000 L	2016
91	PHU THO GENERAL HOSPITAL	VUNG TAU	10.000 L	2016
92	CUU LONG HOTEL	QUANG NAM	5.000 L	2016
93	NINH KIEU HOTEL	QUANG NGAI	15.000 L	2016
94	SIVA RESORT	TAY NINH	5.000 L	2016
95	CUU LONG - PPR	DA NANG	5.000 L	2016
96	WINDSOR	BINH DUONG	76.000 L	2016
97	VIETNAM GARMENTS MANUFACTURING LIMITED	HAI PHONG	7.000 L	2016
98	AN GIA HUNG , LA-ASTORIA APARTMENT	HA NOI	15.000 L	2017
99	HOANG YEN HOTEL	DA LAT	5.000 L	2016
100	PHOENIX (SEA FLOWER) HOTEL	NHA TRANG	5.000 L	2017
101	DT 275 MOTEL - HIGH COMMAND	NHA TRANG	10.000 L	2016
102	TRA CO RESORT	QUANG NINH	11.000 L	2017
103	GUYOMARC'H FACTORY	VINH PHUC	7.000 L	2017
104	SOUTH VINA	HOI AN — QUANG NAM	20.000 L	2017
105	DEPARTMENT OF NATIONAL DEVOTEES	HOI AN — QUANG NAM	7.000 L	2017
106	HOI AN SILK VILLAGE RESORT & SPA	HOI AN – QUANG NAM	5.000 L	2017
107	DUC PHU GIA TOURISM COMPANY LIMITED	DA NANG	2000 L	2017
108	MINH KIEN TOURISM DEVELOPMENT AND INVESTMENT COMPANY LIMITED	DA NANG	3000 L	2017

TYPICAL PROJECTS

HOT WATER USES SOLAR ENERGY

Industrial scale





NORFOLK HOTEL PROJECT – HCMC

TIME

2017

2017

2017

2017

2017

2017

2017

2017

2017

CAPACITY

2000 L

15.000 L

10.000 L

3.000 L

3.000 L

2.000 L

2.000 L

13.000 L

6.000 L

Capacity: 10.000 L/day





NORFOLK MANSION PROJECT – HCMC

Capacity: 21.000 L/day



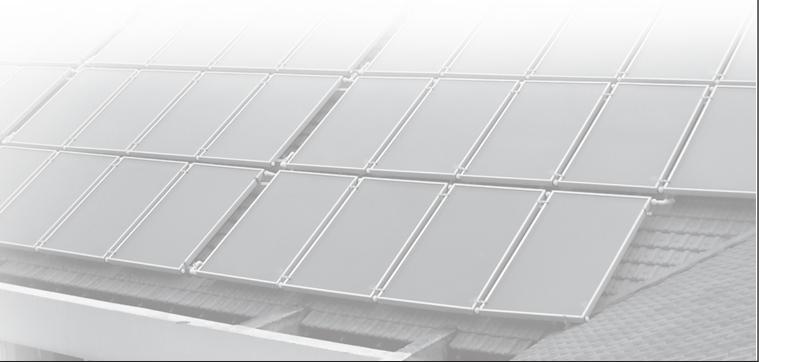


WOOSHU COMPLEX PROJECT- BIEN HOA CITY, DONG NAI PROVINCE Capacity: 15.000 L/day





PARK DIAMOND HOTEL PROJECT – PHAN THIET CITY, BINH THUAN PROVINCE Capacity: 16.500 L/day



PLACE

DA NANG

HCMC

НСМС

DA NANG

DA NANG

HOI AN

DA NANG

HA NOI

DA NANG

PROJECT

COMPANY

111

114

DUONG BO BIEN LIMITED LIABILITY

D.T.C CONSTRUCTION INVESTMENT

CONSTRUCTION INVESTMENT & HOUSE

112 **BUOI SANG MECHANICAL COMPANY LIMITED**

HOANG NHU LIMITED LIABILITY COMPANY

DUC NHAT DEVELOPMENT AND INVEST-

DUC PHU GIA TOURISM ONE MEMBER

MINH THAO TOURISM SERVICES PRIVATE

PHU QUOC HOI AN SOLE MEMBER

LIMITED LIABILITY COMPANY

MENT COMPANY LIMITED

COMPANY LIMITED

JOINT STOCK COMPANY HUNG THINH COMMERCIAL

DEVELOPMENT LIMITED

HOT WATER USES SOLAR ENERGY

Industrial scale





CAP SAINT JACQUEST HOTEL PROJECT – VUNG TAU CITY, BA RIA – VUNG TAU PROVINCE Capacity: 11.500 L/day





PALACE HOTEL PROJECT – VUNG TAU CITY, BA RIA – VUNG TAU PROVINCEINCE

Capacity: 4.000 L/day





SUNRISE HOTEL PROJECT—NHA TRANG CITY, KHANH HOA PROVINCE

Capacity: 10.000 L/day





Capacity: 14.000 L/day SAI GON MORGIN HOTEL PROJECT – HUE CITY, THUA THIEN HUE PROVINCE





THANH VAN HOTEL PROJECT – HOI AN CITY, QUANG NAM PROVINCE

Capacity: 3.500 L/day





INTERNATIONAL SCHOOL POOL PROJECT – HCMC

Capacity: 420.000 L/day





BAMBOO VILLAGE RESORT PROJECT - PHAN THIET CITY, BINH THUAN PROVINCE

Capacity: 4.000 L/day





MAJESTIC HOTEL PROJECT - HCMC

Capacity: 25.000 L/day

HOT WATER USES SOLAR ENERGY

Industrial scale





LONG THUAN RESORT PROJECT – PHAN RANG CITY, NINH THUAN PROVINCE Capacity: 16.000 L/day





KAYA – HIEP HOA HOTEL PROJECT – TUY HOA CITY, PHU YEN PROVINCE

Capacity: 5.000 L/day





SUNRISE HOTEL PROJECT – NHA TRANG CITY, KHANH HOA PROVINCE

Capacity: 10.000 L/day





DE NHAT HOTEL PROJECT – HCMC Capacity: 17.000 L/day





SOLAR WATER HEATING SYSTEMS – GOLD COAST HOTEL RESORT & SPA, QUANG BINH PROVINCE Capacity: 12.000 L





SOLAR WATER HEATING SYSTEMS – THIEN THANH HOTEL, PHU QUOC ISLAND

Capacity: 13.000 L





SOLAR WATER HEATING SYSTEMS – SOUTH VINA CO. LTD

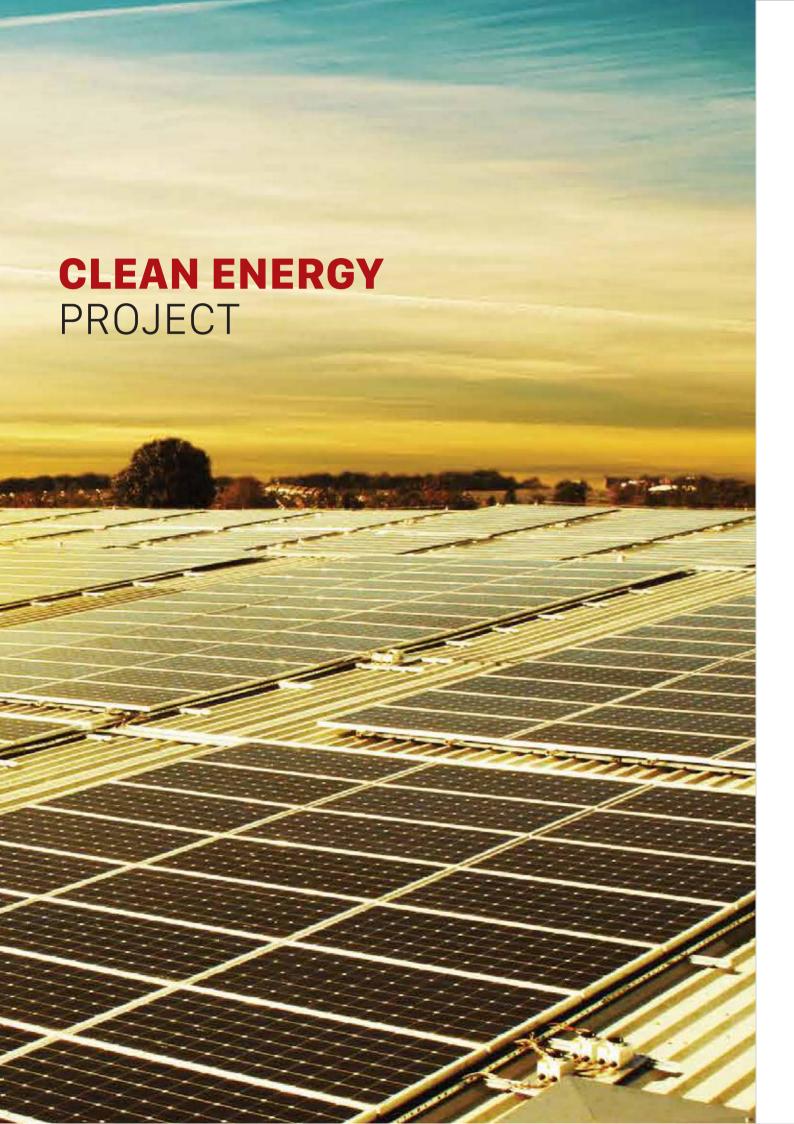
Capacity: 20.000 L





SOLAR WATER HEATING SYSTEMS – NINH KIEU HOTEL - CAN THO PROVINCE

Capacity: 15.000 L



2.2. Solar & Wind Energy Resource Supply Project

NO.	PROJECT	PLACE	CAPACITY	TIME
1	The project "Solar energy lighting system"	BIG SPRATLY ISLAND	Includeing 210 solar-powered lighting systems around the embankment of nine floating islands and illuminate the internal roads for Big Spratly Island.	10/2008- 03/2009
2	Pilot project "Clean Energy System"	BIG SPRATLY ISLAND	Ten the 32 kW wind turbine hybrid with 210 PV165 Wp panels and automatic control systems	01/2009- 05/2009
3	Supply and install 50 solar powered lighting systems	THANH PHU - BEN TRE PROVINCE	2 kWh/day	06/2009- 07/2009
4	The overall project "Clean Energy and Lighting System"	SPRATLY ISLAND AND DK PLATFORMS	Total capacity 5.167 kWh / day . Includes 129 wind turbines (Capacity 412.8 kW) Over 5.700 solar panels (Capacity 1.003.200 Wp) Over 4.000 GEL 230 Ah batteries Over 1.000 sets of street lights.	09/2009- 10/2010
5	Project "Clean energy production system using wind and solar energy for the station of monetary policy"	BIG SPRATLY ISLAND	Providing the installation of clean energy production system using wind and solar energy	12/2009- 09/2010
6	Supply and installation of solar battery power system	CAN THO UNIVERSITY	1.110 kWh/day	04/2010 - 05/2010
7	Supply and installation of 50 solar powered lights	HOA VANG - DA NANG	2 kWh/day	07/2011- 08/2011
8	The project "Supplying equipment for installation of clean energy to provide electricity for BTS station"	VINAPHONE THANH HOA	18.396 kWh/day	11/2010- 01/2012
9	Building Nam Yet cultural center	SPRATTLY ISLAND	Supply of construction equipment to install grid connected solar power system	10/2011- 12/2012
10	Project "Clean energy supply and lighting system"	TRAN ISLAND	. 6 wind turbines with a capacity of 14,4 kWp . 28,2 kWp solar cell	12/2011- 10/2012

NO.	PROJECT	PLACE	CAPACITY	TIME
11	CU LAO CHAM ISLAND	HOI AN -QUANG NAM	28 kWp	2013
12	SON CHA HUE ISLAND	HUE	10 kWp	2013
13	EVN HA GIANG	HA GIANG	9,35 kWp	2013
14	TINH TRUC GIA - HUE	HUE	3 kWp	2013
15	BINH DUONG ADMINISTRATIVE CENTER	BINH DUONG	31,2 kWp	2013
16	THANH TAM SCHOOL	DA NANG	2,7 kWp	2013
17	THE GREEN ONE UN HOUSE (UNDP)	HA NOI	110 kWp	2013
18	FPT CONSTRUCTION	DA NANG	3 kWp	2014
19	EVN SPC	НСМС	5 kWp	2014
20	DEPARTMENT OF DA NANG S&T	DA NANG	3,68 kWp	2014
21	SEA WATER FILTER	KHANH HOA PROVINCE	50 L/h	2015
22	BINH THUAN SHOWROOM	BINH THUAN	5 kWp	2016
23	L VILLA - FPT CITY CENTER	DA NANG	12 solar panels (Capacity 205 Wp). Inverter 3000 VA	2016
24	EVN HCM	HO CHI MINH	28,52 kWp	2017
25	PANDORA CITY PARK	DA NANG	Include: 16 solar panels (Capacity 255Wp) 18 sets of street lights (Capacity 30Wp) 02 automatic control systems"	2017
26	SUN GATE	QUANG NAM	Include 04 solar light, 01 street light	2017
27	TRUONG THINH BUILDING MATERIAL JOINT STOCK COMPANY	BINH THUAN	5,2 kWp	2017
28	C.H.K BUILDING AND ERECTION JOINT STOCK COMPANY	НСМС	3,12 kWp	2017

NO.	PROJECT	PLACE	CAPACITY	TIME
29	PHU YEN RESIDENTIAL AND INDUSTRIAL CONSTRUCTION INVESTMENT PROJECT MANAGEMENT UNIT	PHU YEN	20,28 kWp	2017
30	OFFICE BUILDING PROJECT MANAGEMENT UNIT - EVN HCMC	НСМС	28,52 kWp	2017
31	TECHNOLOGY, QUALITY & SUSTAINABLE INNOVATION (TQSI)	MYANMAR	20,15 kWp	2017
32	HCMC GRID COMPANY	НСМС	29,17 kWp	2017
33	HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY	НСМС	160 kWp	2017
34	VAN LANG UNIVERSITY	HCMC	54,96 kWp	2017
35	DA NANG BRANCH - SOUTH VINCOM RETAIL LIMITED LIABILITY COMPANY	DA NANG	226,61 kWp	2017
36	TAN CANG - SONG THAN ICD JOINT STOCK COMPANY	BINH DUONG	500,96 kWp	2017
37	HOA DAT LIMITED LIABILITY COMPANY	BINH DUONG	3,12 kWp	2017
38	TRAN DAC BINH	VUNG TAU	5,89 kWp	2017
39	LONG GIANG COMMERCIAL CONSTRUCTION TECHNIQUES LIMITED LIABILITY COMPANY	НСМС	10,4 kWp	2017
40	NGUYEN HAI NGUYEN SOLE MEMBER LIMITED LIABILITY COMPANY	DA NANG	15,5 kWp	2017
41	INFINITY HONG HOA COMMERCIAL IMPORT-EXPORT LIMITED LIABILITY COMPANY	LONG AN	15 kWp	2017
42	PHUC AN BUILDING AND ERECTION COMPANY	НСМС	3,12 kWp	2017
43	BE ISLAND SOLAR POWER PROJECT	QUANG NGAI	96 kWp	2017
44	VINH KHANH PLASTIC CABLE JOINT STOCK COMPANY	BINH DUONG	5,08 kWp	2017
45	POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 2	HA NOI	19,84 kWp	2017

NO.	PROJECT	PLACE	CAPACITY	TIME
46	DANANG POWER COMPANY, LTD	DA NANG	21,08 kWp	2017
47	JSC THIEN LONG GROUP	НСМС	198,4 kWp	2017
48	PEOPLE'S COMMITTEE OF HIEP BINH PHUOC WARD - THU DUC	НСМС	4,96 kWp	2017
49	THANH DO INVESTMENT TRADING AND DEVELOPMENT JOINT STOCK COMPANY	DA NANG	50,22 kWp	2017
50	KIM DUC LIMITED LIABILITY COMPANY	LONG AN	152,52 kWp	2017
51	NGUYEN THU THANH NGA	НСМС	3,1 kWp	2017
52	AN PHU DONG POWER COMPANY	НСМС	48 kWp	2017

02 TYPICAL PROJECTS

CLEAN ENERGY – LIGHTING PROJECT FOR SPRATLY ISLAND & DK PLATFORM











TYPICAL PROJECTS

CLEAN ENERGY PROJECT





















FPT PROJECT – DA NANG CITY

Capacity: 3 kWp





GREEN ONE UN HOUSE PROJECT - HA NOI CAPITAL

Capacity: 110 kWp





BINH DUONG ADMINISTRATIVE BUILDING PROJECT – BINH DUONG CITY

Capacity: 31.2 kWp





SON TRA ISLAND POWER SUPPLY PROJECT- DA NANG CITY

Capacity: 25 - 30 kWh/day

CLEAN ENERGY PROJECT





BACH KHOA UNIVERSITY, HCMC

Grid-tie power system of 160kWp (Phase 1)





HOCHIMINH CITY POWER CORPORATION PROJECT, HCMC

Capacity: 28.52 kWp





SOLAR PV ROOFTOP 41 SHOP HOUSE OF MARINA COMPLEX, DA NANG CITY

Capacity: 63.96 kWp Estimated lifetime production: 255 kWh





SOLAR PV ROOFTOP CENTRAL REGION SOLARBK INVESTMENT & DEVELOPMENT CORPORATION OFFICER, DA NANG CITY

Capacity: 7 kWp





SOLAR PV ROOFTOP IREX ENERGY CORPORATION

Capacity: 50 kWp



SOLAR PV ROOFTOP POWAY CALIFORNIA 92064

Capacity: 5.5 kWp Estimated lifetime production: 15.7 MWh



SOLAR POWER FOR RESIDENTIAL SCALE - ALPINE CA. 91901 LOCATION: ALPINE CA. 91901 Estimated lifetime production: 24.8 MWh





VAN LANG UNIVERSITY, HCMC

Capacity: 59.4 kWp

CLEAN ENERGY PROJECT





PHU YEN RESIDENTIAL AND INDUSTRIAL CONSTRUCTION INVESTMENT PROJECT MANAGEMENT UNIT

Capacity: 20,28 kWp





OFFICE BUILDING PROJECT MANAGEMENT UNIT - EVN HCMC

Capacity: 28,52 kWp





TECHNOLOGY, QUALITY & SUSTAINABLE INNOVATION (TQSI), MYANMAR

Capacity: 20,15 kWp





HCMC GRID COMPANY Capacity: 29,17 kWp





TAN CANG - SONG THAN ICD JOINT STOCK COMPANY, BINH DUONG

Capacity: 500,96 kWp





INFINITY HONG HOA COMMERCIAL IMPORT-EXPORT LIMITED LIABILITY COMPANY, LONG AN

Capacity: 15 kWp





BE ISLAND SOLAR POWER PROJECT, QUANG NGAI

Capacity: 96 kWp





POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 2, HA NOI

Capacity: 19,84 kWp