



# KFFP

everlasting resource

شركة خلوف لطاقة المستقبل ش.م.م  
صناعة أنظمة الطاقة الشمسية المتطورة

KHALLOUF FUTURE POWER.L.L.C

تعريف بالشركة

**PREQUALIFICATION**





ISO 9001-2008

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## Company Profile

KPF is the premier manufacturer and supplier of solar water heater systems in the Middle East. Over **10 years** of succeed in installing more than **200 commercial projects** and supplying about **25,000 units for domestic** use. Since its inception, KFP has strictly maintained quality control in various production areas, ensuring superior services by its skilled workforce.

our projects were in UAE, KSA, Greece, Lebanon, Syria, Jordan, Egypt, and Algerian

Technical and commercial support is offered worldwide by Christiani Wasser Technik, GmbH – Germany (CWT).

Our key credits are for our innovative technology, eco-friendly products and services at great value in both domestic and international markets.

We sincerely hope, together in cooperation with our clients, to achieve a cleaner and more eco-friendly world.



## Solar Energy

Solar energy is absolutely the cleanest and most powerful energy source in the world and is virtually inexhaustible. It is soft energy, therefore does not have combustion residuals, so it protects the environment and helps the preservation of other energy sources. New technology has made possible what was previously difficult to collect and reserve.

The sun generates 370 trillion watts per day; its outside temperature is 6000 C° and the average of solar radiation that reaches the earth is equal to 5 KW/h.

The solar evacuated tubes absorb more than 80% from sunrays and transform it to heat. If we install solar power receptacle devices on 16,000km<sup>2</sup> in a few countries around the world, we can generate about 640 million watts per hour every sunny day which supersedes the nuclear station production by 500 times, thus reducing around  $98 \times 10^9$  kg of CO<sub>2</sub> that are emitted from these stations per year.

Its cost is also trivial compared to other energy means, therefore, solar heat is the most inexpensive of all others in the world; low cost and high output, which lasts a lifetime.

At present, equipment is being manufactured which uses hot water as a motor for a cooling circuit and consequently we now have air conditioners which use solar energy for cooling houses and buildings using 100% clean energy.

## Together Towards a Cleaner Environment

The world is heading toward alternative energy due to the following two basic reasons:

- Increased awareness of Global Warming
- The increase in costs of producing energy



Because of our geographic location, in the Middle East, we are in a position to benefit from using solar energy as an alternative power source, as we enjoy sunshine on average 300 days a year. That means we can save 80% of energy consumption in this respect only. Therefore, KFP's creation in cooperation with CWT-Germany was a natural progression.

The demand for alternative energy in daily life in the Middle East and the rest of the world is becoming greater for: providing hot water for domestic use, heating for large buildings, such as apartment buildings, hotels, hospitals, Swimming Pools, universities, Industrials applications, and factories, etc.



**KFP** has undertaken a number of turnkey projects throughout the Middle East and furthermore, has obtained **TUV-ISO 9001-2008 certification, Certified test of the European Union (Greece) 2012.**

# Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. 01 100 093532

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: **Khalouf Future Power Co.**  
Hama Industrial Zone  
Building No. 1687  
P. O. Box: 288  
Hama  
Syria

Scope: **Manufacturing of Solar Water Heaters using Evacuated Glass Tube**

Validity: The certificate is valid from 2009-07-16 until 2012-07-15.

Cologne, 2009-07-16

An audit was performed, Report No. 093532. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.  
The due date for all future audits is 02-07 (dd.mm).

Member of

www.tuv.com

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Precisely Right.

**TÜVRheinland® CERT ISO 9001**

**KFP**  
everlasting resource

**IAF**  
TGA-ZM-58-95-00

**NATIONAL CENTER FOR SCIENTIFIC RESEARCH**  
**"DEMOKRITOS"**  
INSTITUTE OF NUCLEAR TECHNOLOGY AND RADIATION PROTECTION

**SOLAR & ENERGY SYSTEMS LABORATORY**

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Athens, 03/10/2012

No.: 1216A

### Energy Output Proof for Solar Collector

Based on the Test Report with code 1216/03-10-2012, issued by the «Solar & Energy Systems Laboratory» of NCSR «DEMOKRITOS» (Laboratory accredited according to the EAOT EN ISO/IEC 17025 Standard to perform testings on solar collectors and solar water-heating systems), for the

solar collector with brand name:



of the manufacturer:

the energy output calculation was performed, according to the "Day-by-Day" procedure of ISO 9459-2 Standard using meteorological data for the city of Athens – Greece and found that:

**The annual energy output of the solar collector is 677.2 kWh/m²**

- Average temperature and solar radiation on collector's plane (45°) : Source Meteornorm (Global meteorological database for applied climatology)
- The temperature of the water drawn-off was of 45 °C
- Annual cold water temperature : Source EN12976-2

Responsible for testing

Director of the Laboratory

**N.C.S.R "DEMOKRITOS"**  
**SOLAR ENERGY LABORATORY**  
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Dr. S. Babalis

Dr. V. Belessiotis

## **KFP** Accomplished Projects (Some projects)



**DIP Hotel – UAE - Dubai**

Location:	Uae - Dubai	Collector type:	U-Pipe UP 1800/58-30
Client:	DIP Hotel - Dubai	Number of vacuum tube:	360 Tube
objective of the project:	installation of solar energy system	Number of Collector:	12 Collector
Description:	Providing of hot water at capacity 9500 Liter / Day	Installation date	08-2012





### TenCate Factory – UAE - Dubai

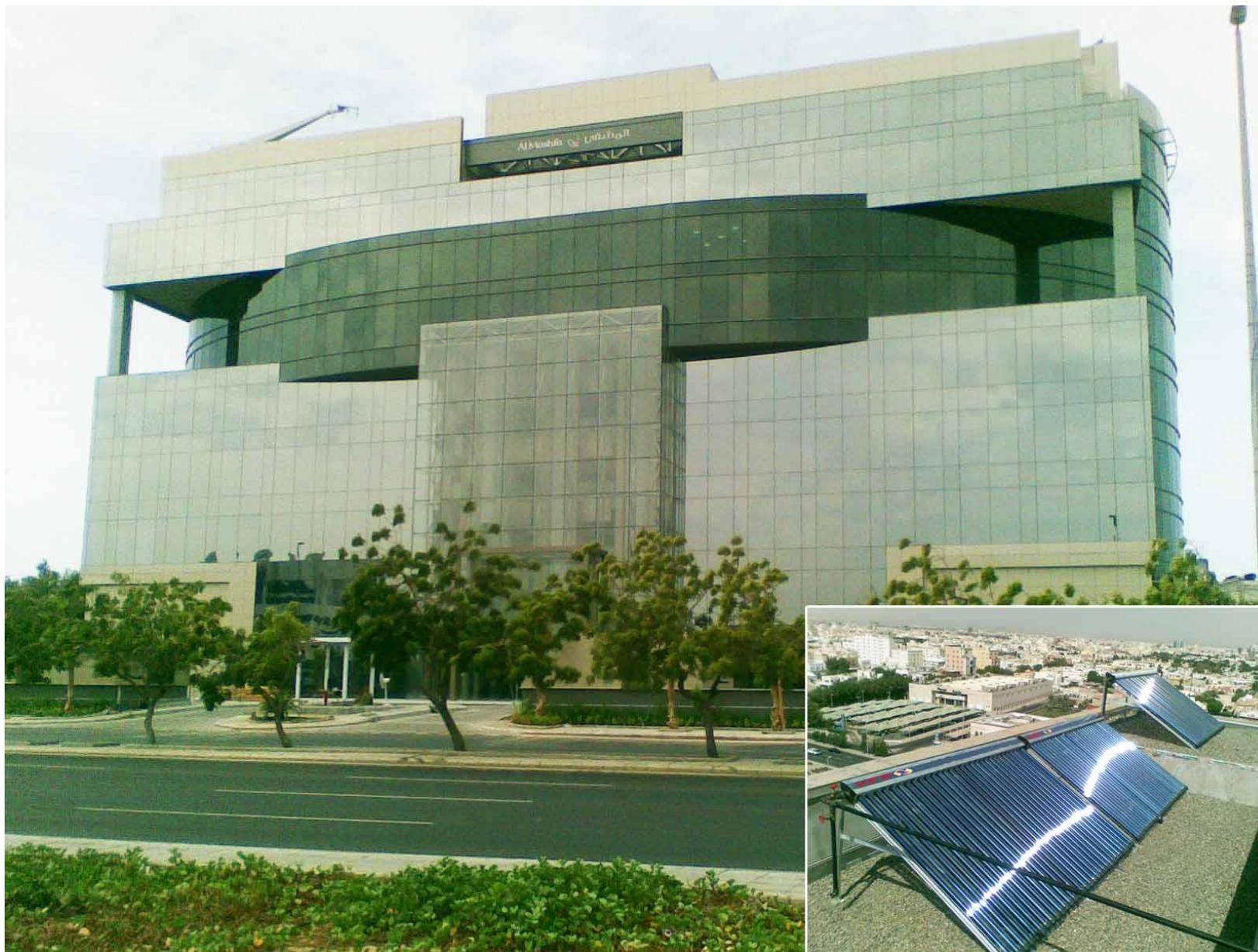
Location:	Uae - Dubai	Collector type:	U-Pipe UP 1800/58-30
Client:	TenCate - Dubai	Number of vacuum tube:	1200 Tube
objective of the project:	installation of solar energy system	Number of Collector:	40 Collector
Description:	Providing of hot water at capacity 12000 Liter / Day	Installation date	03-2012





WOOL Factory			
Location:	SYRIA - Hama	Collector type:	U-Pipe UP 1800/58-30
Client:	Wool Factory	Number of vacuum tube:	2400 Tube
objective of the project:	installation of solar energy system	Number of Collector:	80 Collector
Description:	Providing of hot water at capacity 25000 Liter / Day	Installation date	12-2011





### AL-MASHFA Hospital

Location:	KSA - Jeddah	Collector type:	U-Pipe UP 1800/58-30
Client:	AL-MASHFA Hospital	Number of vacuum tube:	120 Tube
objective of the project:	installation of solar energy system	Number of Collector:	4 Collector
Description:	Providing of hot water at capacity 1700 Liter / Day	Installation date	09-2011





### AL-BATRAA UNIV – Jordan - Amman

Location:	Jordan - Amman	Collector type:	U-Pipe UP 1800/58-20
Client:	AL-BATRAA UNIV	Number of vacuum tube:	940 Tube
objective of the project:	installation of solar energy system	Number of Collector:	47 Collector
Description:	Providing of hot water at capacity 10000 Liter / Day	Installation date	06-2011





### AL-EYADAT Hospital

Location:	SYRIA - Hama	Collector type:	U-Pipe UP 1800/58-30
Client:	AL-EYADAT Hospital	Number of vacuum tube:	720 Tube
objective of the project:	installation of solar energy system	Number of Collector:	24 Collector
Description:	Providing of hot water at capacity 7200 Liter / Day	Installation date	12-2010





### ANTONINE INTERNATIONAL SCHOOL - Lebanon

Location:	LEBANON	Collector type:	U-Pipe UP 1800/58-30
Client:	Andre Daher	Number of vacuum tube:	150 Tube
objective of the project:	installation of solar energy system	Number of Collector:	5 Collector
Description:	Providing of hot water at capacity 1500 Liter / Day	Installation date	07-2010





### VILLA in DUBAi

Location:	Uae - Dubai	Collector type:	U-Pipe UP 1800/58-30
Client:	Villa - Dubai	Number of vacuum tube:	480 Tube
objective of the project:	installation of solar energy system	Number of Collector:	16 Collector
Description:	Heating water swimming pool capacity 100m <sup>3</sup>	Installation date	06-2010



### DER ALKEDESA TAKLLA

Location:	SYRIA - Damascus	Collector type:	U-Pipe UP 1800/58-30
Client:	DER ALKEDESA TAKLLA	Number of vacuum tube:	240 Tube
objective of the project:	installation of solar energy system	Number of Collector:	8 Collector
Description:	Providing of hot water at capacity 2400 Liter / Day	Installation date	04-2010





## BURJ SHAHEEN HOTEL

Location:	SYRIA - Tartous	Collector type:	U-Pipe UP 1800/58-30
Client:	BURJ SHAHEEN HOTEL	Number of vacuum tube:	900 Tube
objective of the project:	installation of solar energy system	Number of Collector:	30 Collector
Description:	Providing of hot water at capacity 9000 Liter / Day	Installation date	10-2009





Heating water swimming pool			
Location:	SYRIA - Damascus	Collector type:	U-Pipe UP 1800/58-20
Client:	Aghyad Kabbani	Number of vacuum tube:	160 Tube
objective of the project:	installation of solar energy system	Number of Collector:	8 Collector
Description:	Heating water swimming pool capacity 50m <sup>3</sup>	Installation date	09-2009





## ARIZOUNA Hotel

Location:	SYRIA - Rakka	Collector type:	TZ 1800/58 40P
Client:	ARIZOUNA Hotel	Number of vacuum tube:	320 Tube
objective of the project:	installation of solar energy system	Number of Collector:	8 Collector
Description:	Providing of hot water at capacity 3200 Liter / Day	Installation date	03-2009





### Center for Scientific Research

Location:	SYRIA - Damascus	Collector type:	TZ 1800/58 40P
Client:	Center for Scientific Research	Number of vacuum tube:	240 Tube
objective of the project:	installation of solar energy system	Number of Collector:	6 Collector
Description:	Providing of hot water at capacity 2400 Liter / Day	Installation date	12-2008





## AL-KARAM RESTAURANT

Location:	SYRIA – Homs – Mashta alhoulo	Collector type:	LP 1800/58-20P
Client:	Nasri Khouri	Number of vacuum tube:	400 Tube
objective of the project:	installation of solar energy system	Number of Collector:	20 Collector
Description:	Providing of hot water at capacity 4000 Liter / Day	Installation date	08-2008





### Chocolate Damas Factory

Location:	SYRIA - Hama	Collector type:	TZ 1800/58-40P
Client:	Firas Barazi	Number of vacuum tube:	160 Tube
objective of the project:	installation of solar energy system	Number of Collector:	4 Collector
Description:	Providing of hot water at capacity 1600 Liter / Day	Installation date	07-2008





### AZZAR SWIMMING POOL

Location:	SYRIA - Homs	Collector type:	U-Pipe UP 1800/58-20
Client:	AZZAR SWIMMING POOL	Number of vacuum tube:	80 Tube
objective of the project:	installation of solar energy system	Number of Collector:	4 Collector
Description:	Heating water swimming pool capacity 30m <sup>3</sup>	Installation date	04-2008





### AL-NASSAN FEED FACTORY

Location:	SYRIA - Hama	Collector type:	TZ 1800/58 40P
Client:	AL-NASSAN FEED FACTORY	Number of vacuum tube:	160 Tube
objective of the project:	installation of solar energy system	Number of Collector:	4 Collector
Description:	Providing of hot water at capacity 1600 Liter / Day	Installation date	02-2008





## SHAHEEN HOTEL

Location:	SYRIA - Tartous	Collector type:	TZ 1800/58 40P
Client:	NIZAR SHAHEEN	Number of vacuum tube:	180 Tube
objective of the project:	installation of solar energy system	Number of Collector:	9 Collector
Description:	Providing of hot water at capacity 1800 Liter / Day	Installation date	08-2007

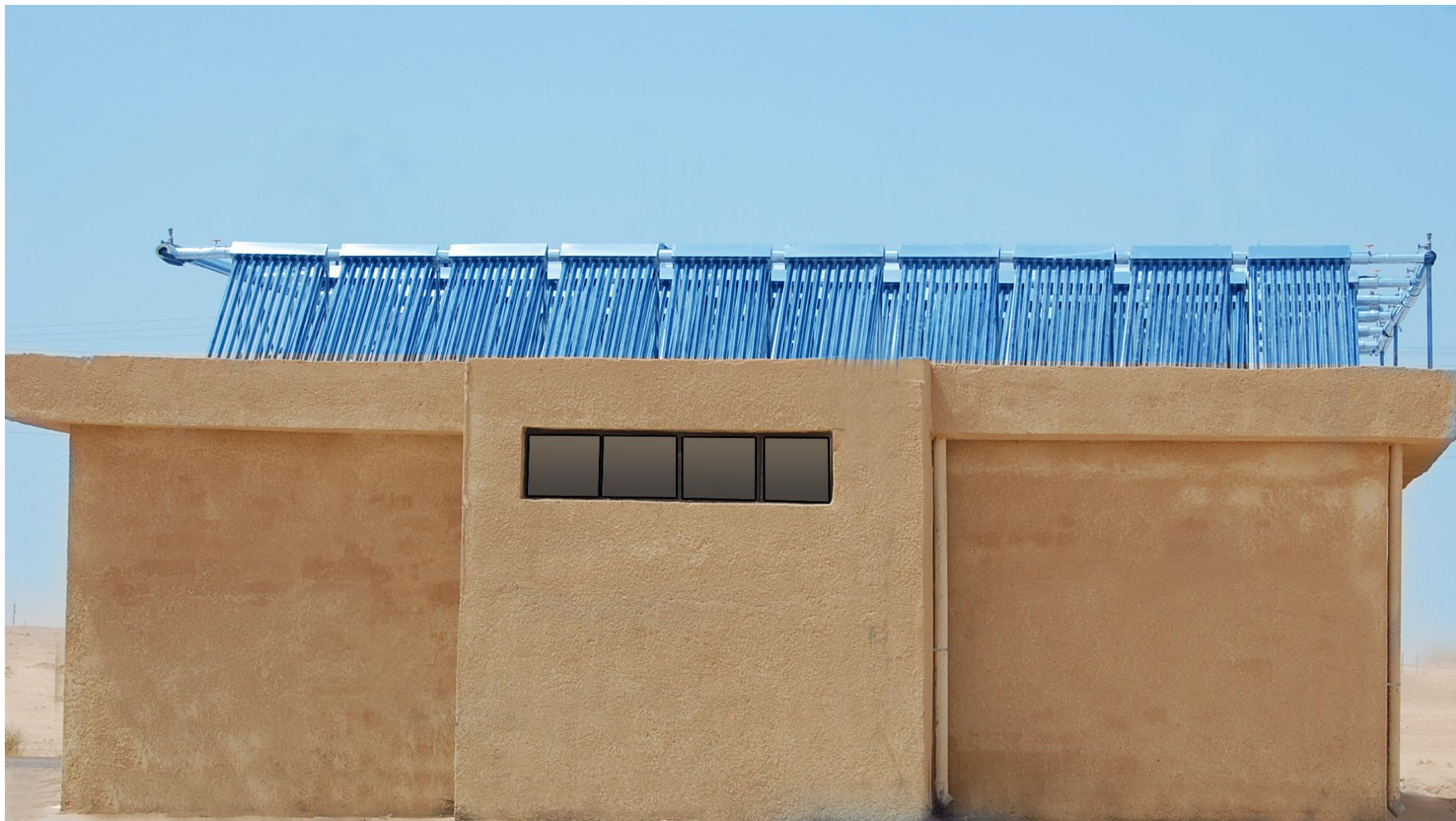




## UNIVERSITY OF KALAMOON

Location:	SYRIA – Der Alzzour	Collector type:	LP 1800/58-10P
Client:	UNIVERSITY OF KALAMOON	Number of vacuum tube:	700 Tube
objective of the project:	installation of solar energy system	Number of Collector:	70 Collector
Description:	Providing of hot water at capacity 7000 Liter / Day	Installation date	03-2006





### Foundation military installations in Deir al-Zour

Location:	SYRIA - Deir al-Zour	Collector type:	LP 1800/58 – 10P
Client:	Foundation military installations in Deir al-Zour	Number of vacuum tube:	700 Tube
objective of the project:	installation of solar energy system	Number of Collector:	70 Collector
Description:	Providing of hot water at capacity 7000 Liter / Day	Installation date	03-2006



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