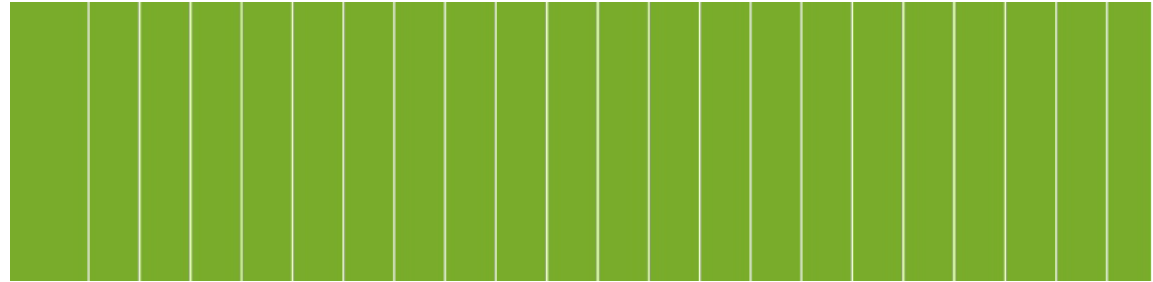


# REFERENCE PROJECTS



**ASTRONERGY**

**EUROPE**



The Largest Single-Operating PV Solar Farm in Europe



**Location:** Rovigo, Italy

**Modules Used:** Crystalline PV CHSM 6610M | CHSM 6610P

**System Size:** 70 MW (15 MW using Astronergy modules)

**Completed:** 11/2010

**EPC:** Isoluxingeieria – GrupolsoluxCorsan

**Investor:** Sun Edison

**Bank:** Unicredit /Santander





**Location:** Posta Della Valle, Italy  
**Modules Used:** Crystalline PV CHSM6610P  
**System Size:** 8 MW (5 MW using Astronergy modules)  
**Completed:** 08/2010  
**EPC:** Sistemy Energetici  
**Bank:** UniCredit





**Location:** Modena, Italy  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 880 KW  
**Developer:** PV Line GmbH





**Location:** Zone Artisanale “La Pitage” 886410 L’Hommaize, France

**Modules Used:** Crystalline PV CHSM 6610P

**System Size:** 397 KW

**Completed:** 02/2012

**EPC:**Technique Solaire



# Grosdenier Rooftop PV Plant

ASTRONERGY



**Location:** Lieu-dit La Choltiere 86800 Terce, France

**Modules Used:** Crystalline PV CHSM 6610P

**System Size:** 243 KW

**Completed:** 02/2012

**EPC:**Technique Solaire

TECHNIQUE  
SOLAIRE 



**Location:** Hospital Infanta Leonor, Madrid, Spain

**Modules Used:** CHSM 6610M

**System Size:** 1.25 MW

**Completed:** 12/2010

**EPC:** Vallecas Solar, Enertis Solar Ingenieria

**Bank:** UniCredit







**Location:** Zaragoza, Spain

**Modules Used:** Crystalline PV CHSM 6610 M

**System Size:** 2.35 MW

**Completed:** 2009

# Toledo- A Joint Venture Solar Park

ASTRONERGY



**Location:** Palacio Cremado, Spain  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 3.15 MW  
**Completed:** 2009  
**EPC:** Bayerische Landessiedlung



# Almoracil SV Solar Park

ASTRONERGY



**Location:** Almoracil, Zaragoza, Spain  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 5.6 MW  
**Completed:** 06/2008  
**EPC:** Maetel BBVA





**Location:** Merida, Spain

**Modules Used:** Crystalline PV CHSM 6610M

**System Size:** 3.4 MW

**Completed:** 2008



**Location:** Merida, Spain

**Modules Used:** Crystalline PV CHSM 5612M

**System Size:** 1.1 MW

**Completed:** 2008



**Location:** Jumilla, Spain

**Modules Used:** Crystalline PV CHSM 5612M

**System Size:** 3.5 MW

**Completed:** 2008



**Location:** Mallorca, Spain  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 2.4 MW  
**Completed:** 2008

# Gerona Rooftop System

ASTRONERGY



**Location:** Gerona, Spain

**Modules Used:** Crystalline PV CHSM 6610M

**System Size:** 30 KW

**Completed:** 08/2009



# MaxSolar Rooftop PV Plant

ASTRONERGY



**Location:** Eggstatt, Germany  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 1.2 MW  
**Completed:** 06/2010  
**EPC:** Max Solar





**Location:** Arausol, Germany  
**Modules Used:** Thin Film CHSM 5001T  
**System Size:** 500 KW  
**Completed:** 11/2010



**Location:** München, Germany  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 100 KW  
**Completed:** 12/2009



**Location:** Nußdorf, Germany  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 58 KW  
**Completed:** 12/2009



**Location:** Abensberg, Germany  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 160 KW  
**Completed:** 12/2010



**Location:** Konigsbruck, Germany  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 2.79 MW  
**Developer:** VISSOLIS GmbH, Solmotion

**Solmotion**

**DKB**

**VISSOLIS**



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 5 MW  
**Completed:** 6/2012  
**EPC:** Hyundai Engineering (HEC)  
**Developer:** Solar 11 EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 4 MW  
**Completed:** 6/2012  
**EPC:** Hyundai Engineering (HEC)  
**Developer:** SP02 EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP





**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 2.8 MW  
**EPC:** LG CNS  
**Developer:** Smolnik Energy EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 3.6 MW  
**Completed:** 6/2012  
**EPC:** LG CNS  
**Developer:** Valchin Energy EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 5 MW  
**Completed:** 6/2012  
**EPC:** LG CNS  
**Developer:** Phoenix Solar EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 4.5 MW  
**Completed:** 6/2012  
**EPC:** LSIS; Evertechno  
**Developer:** Hanovo 1 Solar EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 10 MW  
**Completed:** 6/2012  
**EPC:** LG CNS  
**Developer:** Innimmo Solar EAD; Solar Projects EAD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 10 MW  
**Completed:** 6/2012  
**EPC:** LSIS; Evertechno  
**Developer:** JB Solar EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



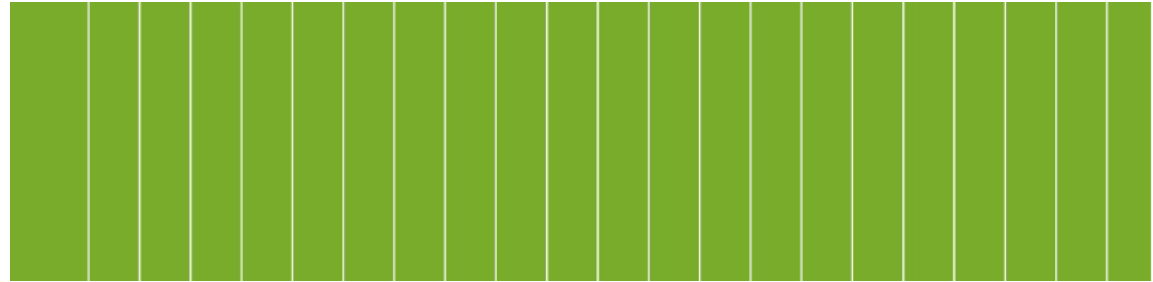
**Location:** Bulgaria  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 3 MW  
**Completed:** 6/2012  
**EPC:** Evertechno  
**Developer:** Chargan Solar Plant EOOD



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP

**NORTH  
AMERICA**







**Location:** Tucson Arizona, USA  
**Modules Use:** Thin Film CHSM 5031(LR)  
**System Size:** 6.1MW  
**Developer:** Solmotion & CTC Electric  
**Completed:** 05/2012

# Kings Mountain Solar Farm

ASTRONERGY



**Location:** North Carolina, USA  
**Module Used:** Crystalline PV CHSM 6610P  
**System Size:** 5 MW  
**Developer:** Strata Solar  
**Completed :** 12/2011





**Location:** University of California, Davis, CA, USA

**Modules Used:** Crystalline PV CHSM 6610P

**System Size:** 700 KW

**Completed:** 11/2011

**Developer:** Morgan Stanley Stanley Solar Solutions, Main Street Power



**Location:** Fayetteville, TN, USA  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 3MW  
**Completed:** 10/2011  
**EPC:** Vis Solis LLC, Franklin  
**Project Developer:** Lincoln Farm LLC

# South Burlington Solar Farm

ASTRONERGY

*The Largest Distributed Solar Tracker Farm in North America*



**Location:** South Burlington, VT, USA  
**System Size:** 2.2 MW  
**Completed:** 07/2011  
**Developer/EPC:** AllEarth Renewables





**Location:** Bridgeport, NJ, USA  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 1.5MW  
**Completed:** 01/2011





**Location:** Allentown, PA, USA  
**Modules Used:** Thin Film CHSM 5001T  
**System Size:** 2 MW (1MW using Astronergy Thin Film)  
**Completed:** 07/2011



# Depot Park Project

ASTRONERGY

Largest ground-mounted tracking solar power project in Sacramento



**Location:** Sacramento, CA  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 3 MW  
**Completed:** 12/2010  
**EPC:** SPG Solar, Inc  
**Bank:** East West Bank





# Butler Plaza Project

ASTRONERGY

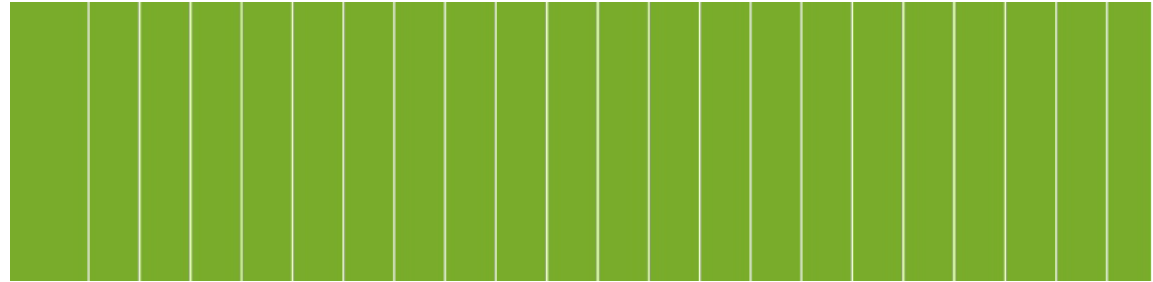
The Largest Solar Rooftop Array in South East USA



**Location:** Gainesville, FL  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 2.2 MW  
**Completed:** 10/2010  
**EPC:** SPG Solar, Inc  
**Bank:** East West Bank; US Bank



**ASIA**





**Location:** Kumenancho, Japan  
**Modules Used:** Crystalline PV CHSM6612P  
**System Size:** 701KW  
**Completed:** 10/2012



**Location:** Booyeo City, Korea  
**Developer:** Astronergy Solar Korea & JESE  
**System Size:** 1MW  
**Completed:** 06/2010



ASTRONERGY



**Location:** Daebang, Korea  
**Modules Used:** Crystalline PV CHSM 6610M  
**System Size:** 1 MW  
**Completed:** 03/2010  
**Developer:** Chint Group  
**Bank:** KB Bank





**Location:** Songam-dong, Chuncheon city, Korea

**Module Used:** Crystalline PV CHSM6610M

**Developer:** Chint Group

**System Size:** 6 MW

**Completed:** 12/2011



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Saraburi, Thailand  
**Module Used:** Crystalline PV CHSM6612P  
**System Size:** 9.6 MW  
**Completed:** 5/2012  
**EPC:** Sunedison



**Location:** Lopburi, Thailand  
**Modules Used:** Thin Film CHSM 5001T  
**System Size:** 1.65 MW  
**Completed:** Mid 2011  
**EPC:** Thai Solar Future







**Location:** Saraburi, Thailand  
**Module Used:** Crystalline PV CHSM6610P  
**Developer:** Chint Group  
**System Size:** 5.5 MW  
**Completed:** 12/2011





**Location:** Dunhuang, Gansu, China  
**Module Used:** Crystalline PV CHSM6610P  
**Developer:** Chint Group  
**System Size:** 50MW  
**Completed :** 04/2012



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Ningxia , China  
**Module Used:** Crystalline PV CHSM6610P  
**Developer:** Chint Group  
**System Size:** 10MW  
**Completed :** 05/2012



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Gansu , China  
**Module Used:** Crystalline PV CHSM6610P  
**Developer:** Chint Group  
**System Size:** 40MW  
**Completed:** 05/2012



# Wenzhou Nanji off grid solar plant

ASTRONERGY



**Location :** Nanji island, Pingyang, Wenzhou, China  
**Developer :** Chint Group  
**System Size :** 1MW  
**Completed :** 2012



**CHINT**  
正泰集团  
CHINT GROUP



**Location:** Golmud, Qinghai, China  
**Module Used:** Crystalline PV CHSM6610P  
**Developer:** Chint Group  
**System Size:** 20MW  
**Completed:** 10/2011





**Location:** Shizuishan, Ningxia Province, China  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 100 MW (first phase- 10 MW)  
**Completed:** In process ( First half completed in 2009)

**CHNT**  
正泰集团  
CHINT GROUP

Part of China "Golden Sun" Project



**Location:** Huzhou, China

**Modules Used:** Crystalline PV CHSM 6610P

**System Size:** 4.25MW

**Expected Completion Time:** 2012 ( First half completed in 09/2011)



# Hangzhou QiGe Sewage Treatment

ASTRONERGY

## Plant

Part of China "Golden Sun" Project



**Location:** Hangzhou, China

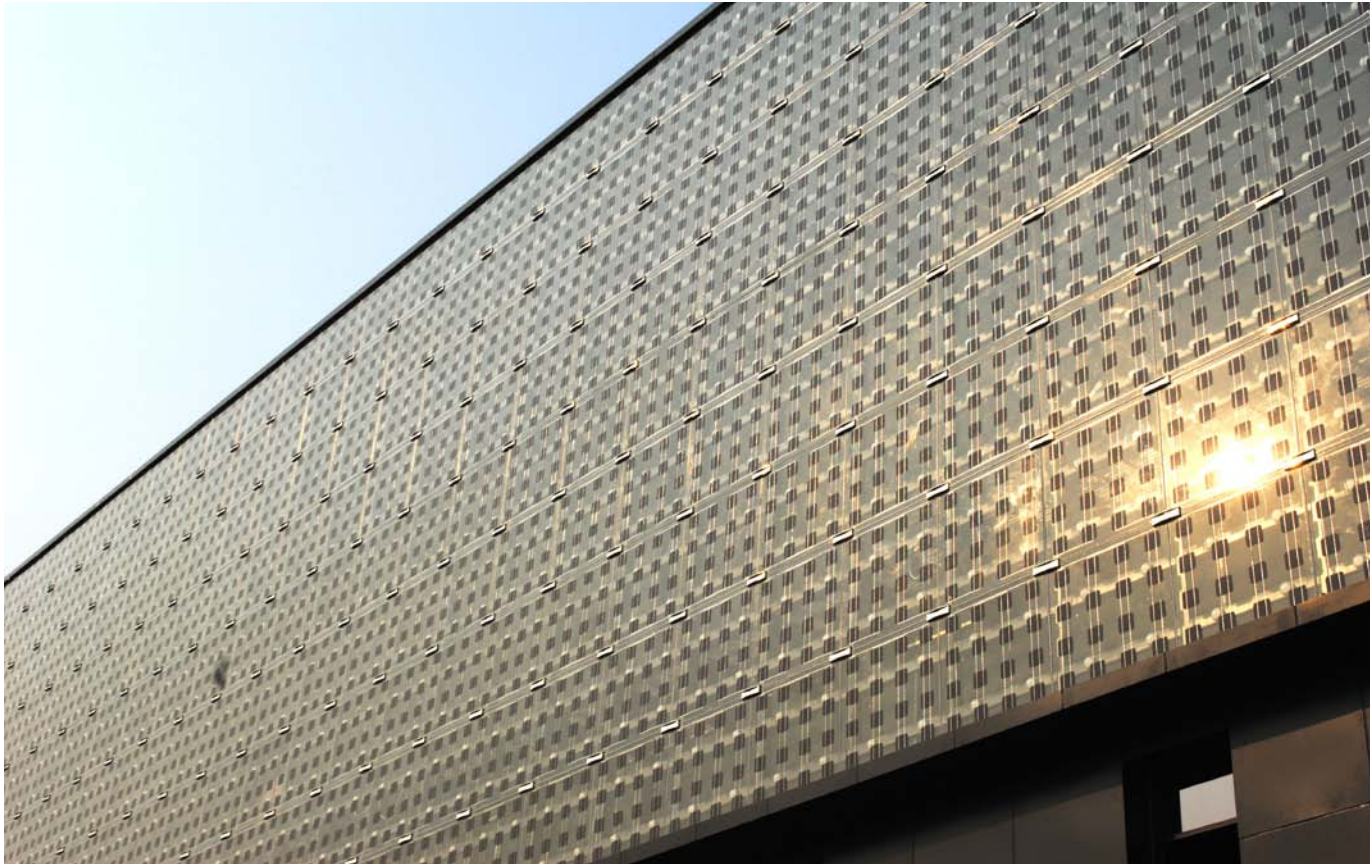
**Modules Used:** Crystalline PV CHSM 6610P

**System Size:** 2MW

**Completed:** 2011



**Location:** Hangzhou, China  
**Modules Used:** Thin Film CHSM 5001 T  
**System Size:** 250 KW  
**Completed:** 10/2010



**Location:** Hangzhou, China  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 100 KW  
**Completed:** 1/2010

# NingXia Huinong Culture Center-BIPV

ASTRONERGY

Part of China "Golden Sun" Project



**Location:** Ningxia,China

**Modules Used:** Thin Film CHSM 5001T

**System Size:** 800 KW

**Completed:** 01/2010

# Hangzhou East Railway Station PV System

ASTRONERGY



**Location:** Hangzhou, China  
**Modules Used:** Crystalline PV CHSM 6610P  
**System Size:** 10 MW



ASTRONERGY

**CHNT**  
正泰集团  
CHINT GROUP



**Location:** Hangzhou, China  
**Modules Used:** Thin Film CHSM 5001T| Crystalline PV CHSM 5612M  
**System Size:** 2 MW  
**Completed:** 09/2009





**Location:** Hangzhou, China  
**Modules Used:** Thin Film CHSM 5001T  
**System Size:** 180 KW  
**Completed:** 5/2010



**Location:** Shanghai, China  
**Modules Used:** Thin Film CHSM 5001T  
**System Size:** 565 KW  
**Completed:** 01/2010 subsidiary



# Seven Star Hotel Pyramid- BIPV

ASTRONERGY



**Location:** Inner Mongolia, China  
**System Size:** 409.17KW (Ground Mount + BIPV)  
**Completed:** 07/2010



**K-STRUCTURES™**

Your Sustainable Energy Roof Solutions Partner

Malaysian Industrial Design Application:-  
12-01241-0101

**Location:** Kuala Lumpur, Malaysia  
**Modules Used:** Crystalline PV CHSM6610P  
**System Size:** 1.1MW **Completed:** 01/2013  
**EPC:** K-STRUCTURES



**Location:** Shire of Mundaring, WA Australia  
**Modules Used:** Crystalline PV CHSM 5612M  
**System Size:** 16 KW



## Gansu Projects

Location: Gansu Province, China  
Total System Size: 60 MW  
Developer: Chint Group  
Completion Time: 12/2011



## Romania Projects

Location: Romania  
Total System Size: 95MW  
Investor: Chint Group  
EPC:  
BESTER GENERACION S.L.  
INSTALACIONES ELECTRICAS DE  
SANXENXO, S.L.U. (INELSA)  
Completion Time : First Phase 03/2013



## SouthAfrica Projects

Location: Soutpan Solar Park  
Total System Size: 28MW  
Developer: Chint Group  
Completion Time: 2012-2013



## Rajasthan Projects

Location: Rajasthan, India  
Total System Size: 20MW  
Developer: Chint Group  
Completion Time: 12/2012



Location: Witkop Solar Park  
Total System Size: 30MW  
Developer: Chint Group  
Completion Time: 2012-2013

## Agro 2

Location: Italy  
System Size: 2.5 MW  
Investor: SEP  
EPC: Global Energy Service  
Bank: UniCredit



## Otanna

Location: Italy  
System Size: 11.2MW  
(7.5MW using CHSM6610P)  
Investor: Otanna Energy, Winch Energy  
EPC: Global Energy Service  
Bank: UniCredit, Investec



## Additional

DKB has financed an additional 10MW of Astronergy projects with Solmotion GmbH.



Astronergy has provided 101 MW products for MEMC's projects installing in 2011 (eg. projects in Thailand, India, Italy)



**Thank You!**

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