

**Hydrelio[®]
Floating PV
System**

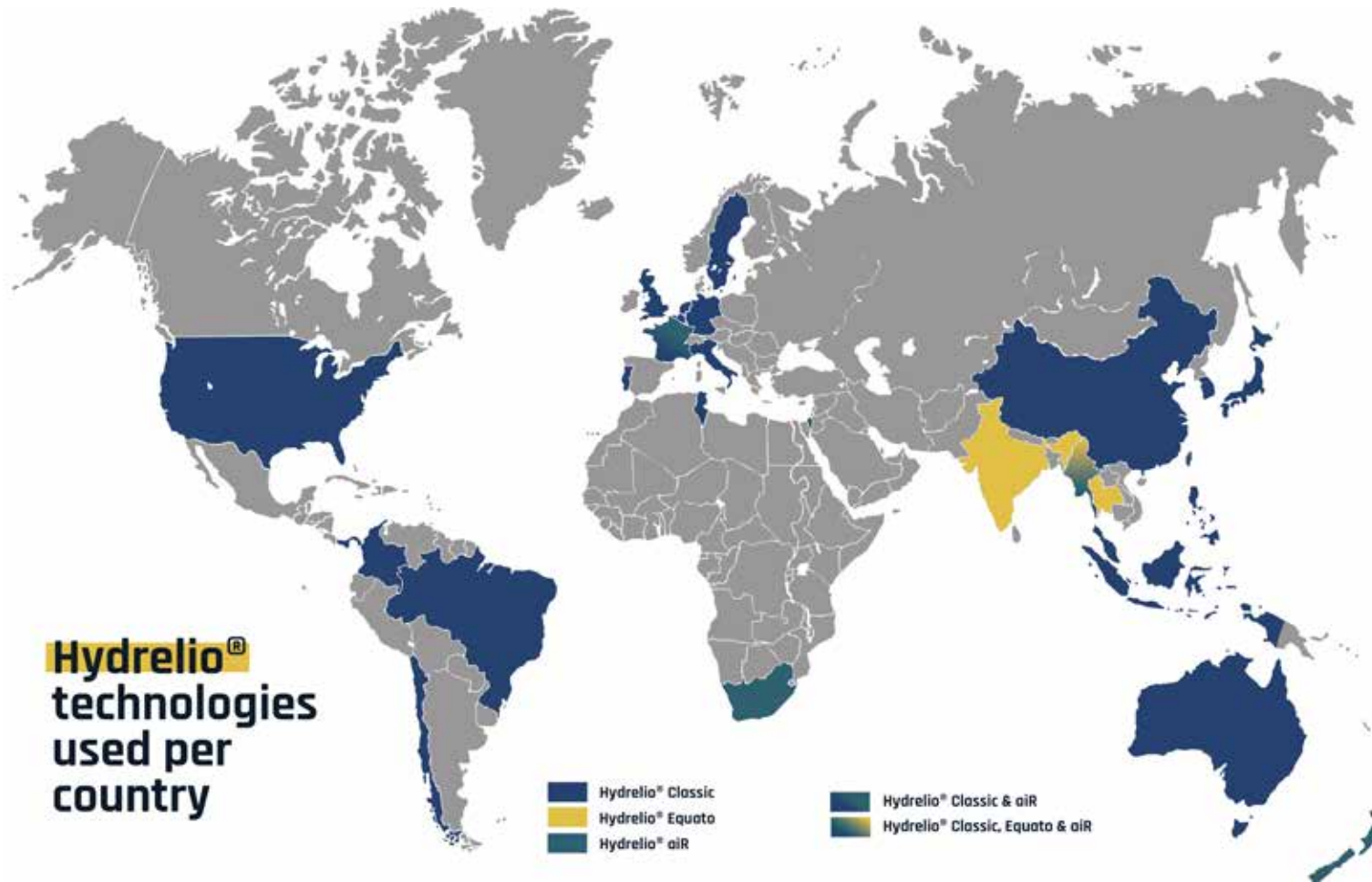
Our References



ACHIEVED PROJECTS

**200
PROJECTS**

**375+
MWp**



ONGOING PROJECTS

**65
PROJECTS**

**315+
MWp**

JAPAN

Okegawa	1,180	kWp	2013	Tano Ike	2,548	kWp	2018
Kawagoe	696	kWp	2014	Osawa	2,449	kWp	
Maeno Ike	848	kWp		Bessho Sara Ike	540	kWp	
Yasugi	1,098	kWp	2015	Yamakura dam	13,744	kWp	
Kato-shi	2,870	kWp		Naka Ota Ike	2,435	kWp	
Sakasama Ike	2,313	kWp		Iwano Ike	2,596	kWp	
Sawa Ike	1,008	kWp		Watashi Ike	2,170	kWp	
Fuku Ike	1,076	kWp		Yokota Cho Shiba/Kami	1,591	kWp	
Hirai Ike	1,125	kWp		Yokota Cho Shimo	853	kWp	
Hanamidai	1,153	kWp		Otori Babe Iike	2,495	kWp	
Funatsu Osawa	1,485	kWp		Uwa Ike	637	kWp	
Umenoki	7,550	kWp		Ishitani Ike	660	kWp	
Kawarayama Ike	1,428	kWp		Higashi Ota Ike	2,435	kWp	
Toriga Ike	630	kWp	Ichinomiya Ike	2,242	kWp	2019	
Sakurashita Ike	809	kWp	Togawa Ike	2,358	kWp		
Juman Ike	490	kWp	Abe Ike	9,087	kWp		
Sohara Ike	2,398	kWp	Shimodori Ike	1,210	kWp		
Naga Ike Nishi	1,078	kWp	Narasu Ike	2,802	kWp		
Kasaoka	973	kWp	Higai Shin Ike	497	kWp		
Kobe Oike	1,212	kWp	Musashicho Furu Ike	807	kWp		
Gono Ike	1,203	kWp	Musashicho Shin Ike	503	kWp		
Yakino Ike	1,714	kWp	Oda Ike	2,903	kWp		
Hira Ike	1,260	kWp	Sasakuacho UE	594	kWp		
Tsuga Ike	2,449	kWp	Sakasama Shita	665	kWp	2020	
Hirono Shin Ike	1,751	kWp	Sawahara	2,449	kWp		
Isawa Ike	631	kWp	Nakano Ike	1,204	kWp		
Naga Ike Higashi	2,156	kWp	Katakami Oike	2,602	kWp		
Sayama Ootori Ike	2,502	kWp	Hyoshiga Ike	2,703	kWp		
Sayama Nigori Ike	280	kWp	Sakaya Tame Ike	633	kWp		
Sakurakami Ike	1,992	kWp	Yokawacho Kami Ike	621	kWp		
Hikona	660	kWp	Kitsune Ike	2,861	kWp		
Kyuhin	1,188	kWp	Hikuni Ike	1,308	kWp		
Kire Ike	691	kWp	Jodo Ike	2,507	kWp		
Gojiga Ike	572	kWp	Kaneibara Ike	864	kWp	2020	
Noma Ike	2,435	kWp	Hirono Ichigo Ike	1,634	kWp		
Tachiai Oku Ike	835	kWp	Innan Kita Ike	1,830	kWp		
Besso Ike	1,426	kWp	Hanaoka Ike	2,289	kWp		
Yukimine Kami Ike	1,568	kWp	Kiya Ike	1,417	kWp		
Shimoyama Ike	1,966	kWp	Higainichou Ike	1,229	kWp		
Ootsuda Ike	973	kWp	Aoki Ike	1,574	kWp		
Daikai Ike	300	kWp	Ozaka Ike	2,660	kWp		
Hirono Nigo Ike	1,261	kWp	Kaya Manuma Ike	2,602	kWp		
Sara Ike	1,176	kWp	Tsuji Ike	906	kWp		
Hachigo Ike	2,402	kWp	Kimagase Ike	899	kWp		
Komaga	2,297	kWp	Daido Ike	1,158	kWp		
				Kotori Babe Ike	2,686	kWp	
				Hotokedo Ike	838	kWp	
				Yoshi Ike	1,768	kWp	

EMEA

Piolenc (FR)	15	kWp	2011
Sheeplands (EN)	200	kWp	2014
Nofar (IL)	22	kWp	2015
Bör (SE)	13	kWp	
Ben Acre (EN)	3 x 100	kWp	
Polybell (EN)	471	kWp	
Reeders (EN)	50	kWp	2016
Godley (EN)	2,991	kWp	
Queen Elizabeth II (EN)	6,338	kWp	
Alto Rabagao (PT)	218	kWp	
Maxima Bridge (NL)	57	kWp	2017
Pontecorvo (IT)	343	kWp	
Cegonha (PT)	11	kWp	
Kairouan pilot (TN)	5	kWp	
Hesbaye Frost (BE)	998	kWp	2018
Engie Zaandam (NL)	26	kWp	
Engie Burgum (NL)	39	kWp	
Oosterhof Holfman (NL)	27	kWp	
Azalealaan (NL)	1,845	kWp	2019
Ashdot (IL)	269	kWp	
Slufter (NL)	51	kWp	
Marlenique Farm (ZA)	59	kWp	
Maiwald (DE)	749	kWp	2020
O'Mega 1 (FR)	17,015	kWp	
Cuba Este (PT)	998	kWp	
Kfar Hamaccabi (IL)	522	kWp	
Salzwedel (DE)	750	kWp	

AMERICAS

UCF Orlando (FL, USA)	5	kWp	2016
Kunde Winery (CA, USA)	10	kWp	2017
Orlando Utilities (FL, USA)	32	kWp	
Miraflores (PA)	24	kWp	2018
Goiás Farm - GO (BR)	305	kWp	
Peñol Guatape (CO)	99	kWp	
Kelseyville (CA, USA)	252	kWp	
SC Pond (CA, USA)	607	kWp	2019
Walden Pond (CO, USA)	74	kWp	
Las Tortolas (CL)	84	kWp	
Sobradinho - BA (BR)	1,005	kWp	
OR Tech (OR, USA)	5	kWp	2020
Sayreville WTP (NJ, USA)	4,403	kWp	
Santa Lucia (CA, USA)	53	kWp	
Windsor Rd Pond (USA)	1,786	kWp	
Miami Airport (FL, USA)	157	kWp	

ASIA & OCEANIA

Yothathikan pilot (TH)	5	kWp	2014
O-Chang #1 (KR)	495	kWp	2015
Sungai Labu (MY)	108	kWp	
Kas Green Energy (ID)	5	kWp	2016
Tengeh (SG)	3 x 100	kWp	
Ulu Sepri (MY)	270	kWp	
Pirongji (KR)	706	kWp	
Shek Pik (HK)	99	kWp	2017
Taoyuan (TW)	481	kWp	
Goyeon #1 (KR)	934	kWp	
Chuckdongjae (KR)	90	kWp	
Heze City (CN)	600	kWp	
Pei County (CN)	9,982	kWp	
Plover Cove (HK)	100	kWp	
Tian Chang (CN)	1,000	kWp	
Lismore (AU)	100	kWp	
Anhui GCL (CN)	32,686	kWp	
Caogangwei (TW)	500	kWp	2018
GCL Jining (CN)	6,776	kWp	
Sugu #2 (TW)	1,133	kWp	
Changhua Farm (TW)	1,997	kWp	
Manun (KR)	2,007	kWp	
Gongam #2 (KR)	934	kWp	
Myeongun (KR)	2,007	kWp	
Myeongwan (KR)	955	kWp	
Gasan (KR)	2,007	kWp	
Anhui CECEP (CN)	70,005	kWp	
Agongdian (TW)	9,994	kWp	2019
Sugu #1 (TW)	4,023	kWp	
Beishipi (TW)	1,998	kWp	
CMIC (KH)	2,835	kWp	
SCCC Open Pit (TH)	498	kWp	
O-Chang #2 (KR)	2,506	kWp	
Cial Golf Course (IN)	428	kWp	
Wisewood (TH)	1,261	kWp	
Yonggyae (KR)	2,007	kWp	
Bachyun (KR)	954	kWp	
Shanjiding (TW)	842	kWp	2020
Kewpie (TH)	702	kWp	
Mahavajiralongkorn Hosp. (TH)	31	kWp	
Don Sai (TH)	1,988	kWp	

HYDRELIO[®] FLOATING PV SYSTEM IN NORTH AND LATIN AMERICA

9
MWp



Achieved Projects

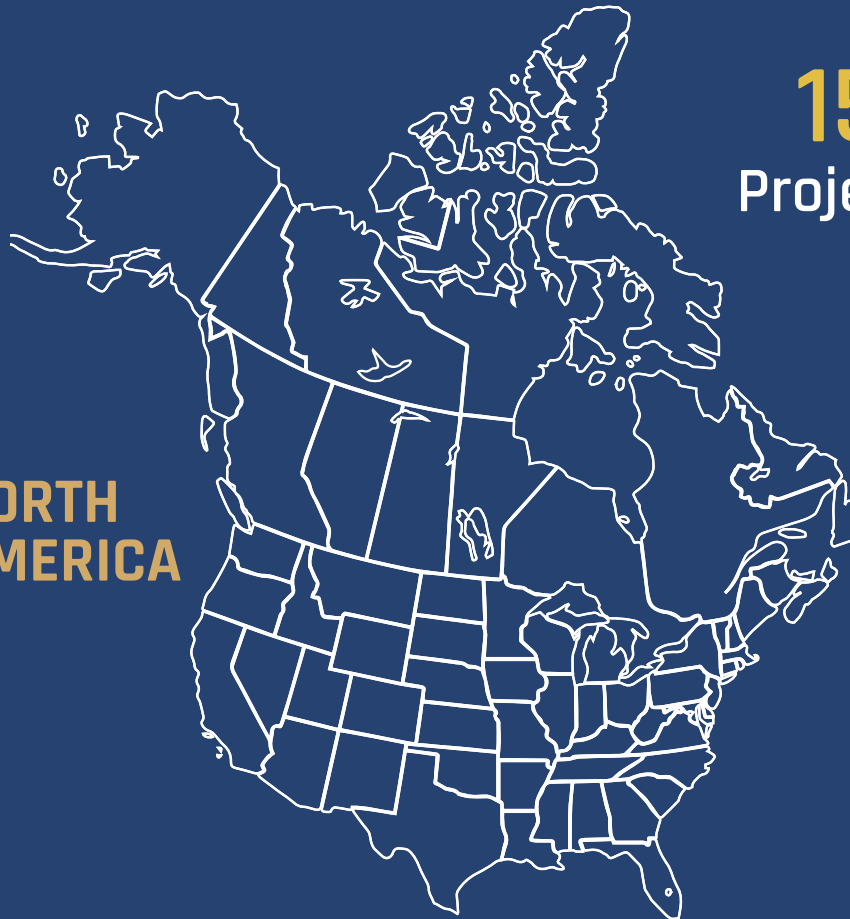
12
MWp



On-going Projects



**NORTH
AMERICA**



15
Projects

**LATIN
AMERICA**



10+
Projects

NEW JERSEY, USA

SAYREVILLE 4,402 kWp

12,762 modules
(HT-SAAE - 345 W)

Completed in October 2019



Water treatment reservoir

- Water surface: 19.66 ha
- Island surface: 4.05 ha
- Coverage ratio: 21 %
- Maximum depth: 4.1 m
- Level variation: 0.9 m



Bank anchoring system +
parabolic mooring line



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in USA)



Construction & Procurement:



Financing



O&M

FLORIDA, USA

ORLANDO UTILITIES 32 kWp

100 modules
(RENESOLA - 315 W)

February 2017



Irrigation reservoir

- Water surface: 1.22 ha
- Island surface: 0.044 ha
- Coverage ratio: 2.90%
- Maximum depth: 3.0 m
- Level variation: 0.5 m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in USA)



Construction & Procurement:
- PV modules + inverters supply
- Anchoring system supply
- Anchoring installation



Financing



O&M

COLOMBIA

PEÑOL GUATAPE 99 kWp

368 modules
(JINKO - 270 W)

April 2018



Water retention dam

- Water surface: - ha
- Island surface: 0.13 ha
- Coverage ratio: -%
- Maximum depth: 46.0 m
- Level variation: 14.0 m



Bottom anchoring system



Hydrelío® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelío® supply
(made in Taiwan)



Construction & Procurement



Financing



O&M

CALIFORNIA, USA

KELSEYVILLE 252 kWp

720 modules
(CANADIAN SOLAR - 350 W)

September 2018



Sewage water reservoir

- Water surface: 1.33 ha
- Island surface: 0.23 ha
- Coverage ratio: 17%
- Maximum depth: 0.9 m
- Level variation: 0.9 m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in USA)



Construction & Procurement:
- Anchoring system supply



Financing



O&M

COLORADO, USA

WALDEN POND 74 kWp

208 modules
(JINKO SOLAR - 355 W)

October 2018



Water treatment reservoir

- Water surface: 0.13 ha
- Island surface: 0.07 ha
- Coverage ratio: 52%
- Maximum depth: 1.5 m
- Level variation: 1.5 m



Bank anchoring system



Hydrelia® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelia® supply
(made in USA)



Construction & Procurement:
- Anchoring system supply



Financing



O&M

FLORIDA, USA

MIA 157 kWp

419 modules
(JA SOLAR - 375 W)



Lagoon

- Water surface: 11.27 ha
- Island surface: 0.20 ha
- Coverage ratio: 1.7%
- Maximum depth: 12 m
- Level variation: <1 m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in USA)



Construction & Procurement:



Financing



O&M

CHILE

LAS TORTOLAS 85 kWp

256 modules
(JINKO SOLAR - 330 W)

March 2019



Mine lake

- Water surface: 140 ha
- Island surface: 0.11 ha
- Coverage ratio: 0.01%
- Maximum depth: 30 m
- Level variation: 20 m



Bank anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in USA)



Construction & Procurement



Financing



O&M

BRAZIL

SOBRADINHO DAM 1,005 kWp

3,792 modules
(CANADIAN SOLAR - 265 W)

Completed in December 2018



Hydroelectric dam

- Water surface: 421,400 ha
- Island surface: 1.09 ha
- Coverage ratio: - %
- Maximum depth: 29.3 m
- Level variation: 13 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in USA)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

HYDRELIO[®] FLOATING PV SYSTEM IN JAPAN

170
MWp



Achieved Projects

30
MWp



On-going Projects

120
Projects



FLAGSHIP PROJECT



Okegawa - 1,180kWp

- First MW-scale floating PV plant installed worldwide
- Operated by: West Holding
- Main benefit: generate a large amount of electricity while preserving valuable land



1,286 MWh/year

Expected annual
production



390 homes

Electrical consumption
equivalent



535 tons

of CO2 emissions
saved



SAITAMA, JAPAN

OKEGAWA 1,180 kWp

4,536 modules
(JA SOLAR - 260 W)

★ **First MW-scale floating PV plant installed in Japan**

July 2013



Rain water retention pond

- Water surface: 3.07 ha
- Island surface: 1.16 ha
- Coverage ratio: 38%
- Maximum depth: 6.0 m
- Level variation: 6.0 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

HYOGO, JAPAN

HANAOKA IKE 2,290 kWp

6,107 modules
(SUNTECH - 375 W)

March 2020



Irrigation reservoir

- Water surface: 4.40 ha
- Island surface: 2.07 ha
- Coverage ratio: 47%
- Maximum depth: 6.45 m
- Level variation: 6.45m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

HYOGO, JAPAN

KATO SHI 2,870 kWp

11,256 modules
(KYOCERA - 255 W)

March 2015



2 Irrigation reservoirs

- Water surface: 5.28 ha
- Island surface: 3.13 ha
- Coverage ratio: 59%
- Maximum depth: 5.7 m
- Level variation: 5.7 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

HYOGO, JAPAN

FUKU IKE 1,076 kWp

4,140 modules
(MITSUBISHI - 260 W)

 Built on a dried pond

June 2015



Irrigation pond

- Water surface: 1.55 ha
- Island surface: 1.11 ha
- Coverage ratio: 72%
- Maximum depth: 2.0 m
- Level variation: 2.0 m



Bottom anchoring system



Hydrelion® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelion® supply
(made in Japan)



Construction & Procurement



Financing



O&M

SAITAMA, JAPAN

UMENOKI 7,550 kWp

27,456 modules
(YINGLI - 275 W)

October 2015



Irrigation reservoir

- Water surface: 12.93 ha
- Island surface: 7.43 ha
- Coverage ratio: 57%
- Maximum depth: 6.9 m
- Level variation: 6.9 m



Bottom anchoring system



Hydrelia® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelia® supply
(made in Japan)



Construction & Procurement



Financing



O&M

HYOGO, JAPAN

NAGA IKE NISHI 1,078 kWp

4,312 modules
(SHARP - 250 W)

NAGA IKE HIGASHI 2,156 kWp

8,624 modules
(SHARP - 250 W)

March | November 2016



Irrigation reservoir

- Water surface: 6.28 ha | 24.73 ha
- Island surface: 1.19 ha | 2.48 ha
- Coverage ratio: 19% | 10%
- Maximum depth: 4.8 m | 4.9 m
- Level variation: 4.8 m | 4.9 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement



Financing



O&M

TOKUSHIMA, JAPAN

ISAWA IKE

631 kWp

2,340 modules
(KYOCERA - 270 W)

★ First time Ciel & Terre® is the project developer + IPP for a floating PV plant

October 2016



Irrigation reservoir

- Water surface: 0.68 ha
- Island surface: 1.19 ha
- Coverage ratio: 57%
- Maximum depth: 6.0 m
- Level variation: 6.0 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

HYOGO, JAPAN

HIRONO NIGO IKE 1,261 kWp

4,760 modules
(LIGHTWAY SOLAR - 265 W)

September 2017



Irrigation reservoir

- Water surface: 1.97 ha
- Island surface: 1.34 ha
- Coverage ratio: 68%
- Maximum depth: 4.5 m
- Level variation: 4.5 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement



Financing



O&M

MIE, JAPAN

TANO IKE 2,548 kWp

8,942 modules
(JINKO - 285 W)

January 2018



Irrigation reservoir

- Water surface: 5.70 ha
- Island surface: 2.50 ha
- Coverage ratio: 44%
- Maximum depth: - m
- Level variation: - m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

OKAYAMA, JAPAN

IWANO IKE 2,596 kWp

8,800 modules
(TRINA - 295 W)

April 2018



Irrigation reservoir

- Water surface: 4.87 ha
- Island surface: 2.36 ha
- Coverage ratio: 48%
- Maximum depth: - m
- Level variation: - m



Bottom anchoring system



Hydrelio® Classic
60-cell **double-glass**
PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement



Financing



O&M

KAGAWA, JAPAN

ICHINOMIYA IKE 2,242 kWp

6,498 modules
(JINKO - 345 W)

June 2018



Irrigation reservoir

- Water surface: 6.93 ha
- Island surface: 2.18 ha
- Coverage ratio: 31%
- Maximum depth: - m
- Level variation: - m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

HYOGO, JAPAN

SASAKUACHO UE 594 kWp

1,674 modules
(AKCOME - 355 W)

SASAKUACHO SHITA 665 kWp

1,872 modules
(AKCOME - 355 W)

December 2018



Irrigation reservoir

- Water surface: 0.92 ha
- Island surface: 0.58 ha | 0.65 ha
- Coverage ratio: 63% | 61%
- Maximum depth: 4.0 m | 2.0 m
- Level variation: 4.0 m | 2.0 m



Bottom anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

HYOGO, JAPAN

HYOSHIGA IKE 2,703 kWp

10,010 modules
(ASTRONERGY - 270 W)

March 2019



Irrigation reservoir

- Water surface: 6.07 ha
- Island surface: 2.75 ha
- Coverage ratio: 45%
- Maximum depth: 3.5 m
- Level variation: 3.5 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement



Financing



O&M

HYDRELIO® FLOATING PV SYSTEM IN EUROPE, MIDDLE-EAST AND AFRICA

30+
MWp



Achieved Projects

35+
MWp



On-going Projects

40
Projects



FLAGSHIP PROJECT

Queen Elizabeth II - 6,338 kWp

- Largest floating PV plant installed in Europe
- Operated by: Lightsource Renewable Energy
- Main benefit: electricity used in self-consumption for water treatment activity



5,750 MWh/year

Expected annual
production



1,800 homes

Electrical consumption
equivalent



2,950 tons

of CO2 emissions
saved



UNITED KINGDOM

SHEEPLANDS 200 kWp

800 modules
(TRINA - 250 W)

★ **First floating PV plant installed in the UK**

September 2014



Irrigation reservoir

- Water surface: 1.49 ha
- Island surface: 0.21 ha
- Coverage ratio: 14%
- Maximum depth: 6.1 m
- Level variation: 6.1 m



Bank anchoring system



Hydrelion® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelion® supply
(made in France)



Construction & Procurement:
- Anchoring system supply



Financing



O&M

UNITED KINGDOM

POLYBELL 471 kWp

1.848 modules
(REC - 255 W)

★ First time Ciel & Terre® is EPC for a floating PV plant

December 2015



Irrigation reservoir

- Water surface: 4.73 ha
- Island surface: 0.50 ha
- Coverage ratio: 11%
- Maximum depth: 3.9 m
- Level variation: 3.9 m



Bank anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design
- Electrical design



Hydrelio® supply
(made in France)



Construction & Procurement:
- Construction supervision



Financing



O&M

UNITED KINGDOM

GODLEY 2,991 kWp

10,494 modules
(JA SOLAR - 285 W)

January 2016



Water treatment reservoir

- Water surface: 5.83 ha
- Island surface: 2.78 ha
- Coverage ratio: 48%
- Maximum depth: 9.9 m
- Level variation: 9.9 m



Bank anchoring system



Hydrelio® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in France)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

UNITED KINGDOM

QUEEN ELIZABETH II 6,338 kWp

23,046 modules
(SUNTECH - 275 W)

March 2016



Water treatment reservoir

- Water surface: 128 ha
- Island surface: 5.95 ha
- Coverage ratio: 5%
- Maximum depth: 18.4 m
- Level variation: 18.4 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

PORTUGAL

ALTO RABAGÃO 218 kWp

840 modules
(REC - 260 W)

★ The world first power plant mixing hydroelectricity and solar energy

November 2016



Hydroelectric dam

- Water surface: 2,212 ha
- Island surface: 0.26 ha
- Coverage ratio: 0.01%
- Maximum depth: 90.0 m
- Level variation: 30.0 m



Bottom anchoring system
Anchored at 60 m with 30 m of water level variation



Hydrelío® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design
- Electrical design



Hydrelío® supply
(made in France)



Construction & Procurement:
- Construction supervision



Financing



O&M

ITALY

PONTECORVO 343 kWp

1,320 modules
(PEIMAR - 260 W)

February 2017



Irrigation reservoir

- Water surface: 0.88 ha
- Island surface: 0.38 ha
- Coverage ratio: 43%
- Maximum depth: 5.5 m
- Level variation: 5.5 m



Bank anchoring system



Hydrelia® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelia® supply
(made in France)



Construction & Procurement



Financing



O&M

BELGIUM

HESBAYE FROST 998 kWp

3,120 modules
(BYD - 320 W)

October 2017



Industrial site

- Water surface: 2.96 ha
- Island surface: 1.03 ha
- Coverage ratio: 35%
- Maximum depth: 4.5 m
- Level variation: 3.0 m



Bank anchoring system



Hydrelio® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

NETHERLANDS

AZALEALAAN 1,845 kWp

6,150 modules
(HANWHA Q CELLS - 300 W)

June 2018



Agricultural pond

- Water surface: 3.34 ha
- Island surface: 1.60 ha
- Coverage ratio: 47%
- Maximum depth: 15.0 m
- Level variation: 2.0 m



Bank anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

ISRAEL

KFAR HAMACCABI 522 kWp

1,392 modules
(JINKO - 375 W)

December 2019



Irrigation pond

- Water surface: 7 ha
- Island surface: 0.51 ha
- Coverage ratio: 7.2%
- Maximum depth: 5 m
- Level variation: 5 m



Bank anchoring system



Hydrelío® Air
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelío® supply
(made in France)



Construction & Procurement



Financing



O&M

HYDRELIO® FLOATING PV SYSTEM IN ASIA & OCEANIA

165+
MWp



Achieved Projects

240
MWp



On-going Projects

65+
Projects



FLAGSHIP PROJECT

Anhui CECEP - 70,005 kWp

- The world largest plant developed with Hydrelío® technology
- Operated by: CECEP
- Main benefit: rehabilitate a former flooded coal mine



82 GWh/year
Expected annual
production



20,910 homes
Electrical consumption
equivalent



52,429 tons
of CO2 emissions
saved



THAILAND

DON SAI 1,988 kWp

6,023 modules
(RISEN - 330 W)



Water treatment reservoir

- Water surface: 4.8 ha
- Island surface: 2.06 ha
- Coverage ratio: 43%
- Maximum depth: 15.5 m
- Level variation: 6 m



Bank anchoring system



Hydrelio® Air 72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in Japan)



Construction & Procurement



Financing



O&M

SOUTH-KOREA

O CHANG 495 kWp

1,978 modules
(HANWHA - 250 W)

★ **First floating PV plant installed on a dam**

February 2015



Irrigation dam

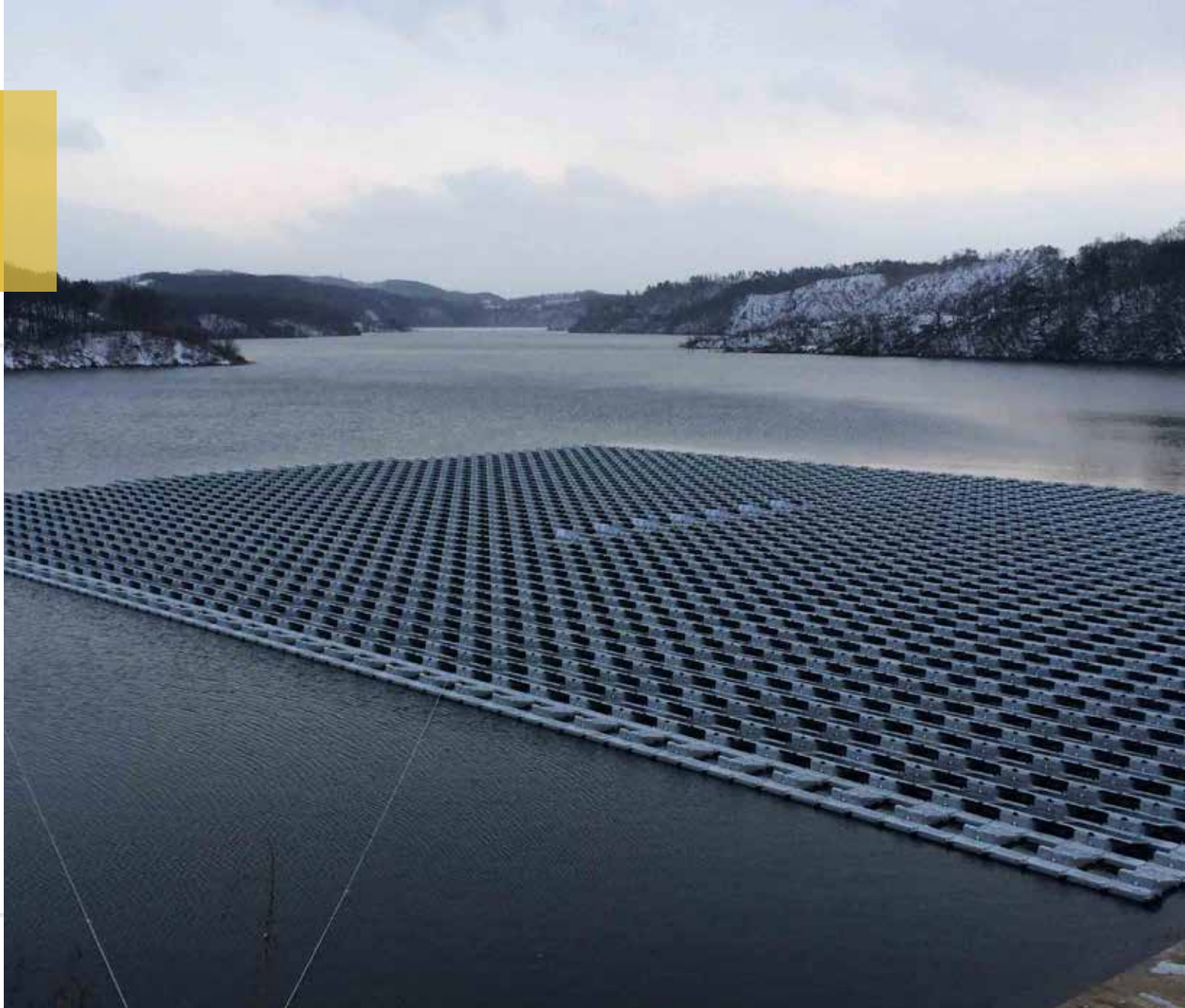
- Water surface: 49.12 ha
- Island surface: 0.56 ha
- Coverage ratio: 1%
- Maximum depth: 13.8 m
- Level variation: 11.3 m



Bottom anchoring system



Hydrelia® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelia® supply
(made in France)



Construction & Procurement



Financing



O&M

CHINA

PEI COUNTY 9,982 kWp

42,240 modules
(GCL - 260 W)

July 2017



Irrigation pond

- Water surface: 35.59 ha
- Island surface: 10.35 ha
- Coverage ratio: 29%
- Maximum depth: 8.0 m
- Level variation: 8.0 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in China)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

THAILAND

WISEWOOD 1,261 kWp

3,275 modules
(TRINA - 385 W)

October 2019



Water treatment pond

- Water surface: 2.62 ha
- Island surface: 1.11 ha
- Coverage ratio: 43%
- Maximum depth: 10.0 m
- Level variation: 2.0 m



Bank anchoring system



Hydrelion® Air
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelion® supply
(made in China)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

MALAYSIA

ULU SEPRI 270 kWp

900 modules
(BLUESUN - 300 W)

November 2016



Water retention dam

- Water surface: 17.94 ha
- Island surface: 0.27 ha
- Coverage ratio: 1.50%
- Maximum depth: 45.6 m
- Level variation: 17.5 m



Bank anchoring system



Hydrelia® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelia® supply
(made in South
Korea)



Construction & Procurement



Financing



O&M

AUSTRALIA

LISMORE 100 kWp

280 modules
(TRINA - 355 W)

January 2018



Water retention dam

- Water surface: 4.13 ha
- Island surface: 0.11 ha
- Coverage ratio: 3%
- Maximum depth: 8.6 m
- Level variation: 8.6 m



Hybrid anchoring system: on shores + bottom



Hydrelío® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelío® supply
(made in South
Korea + Taiwan)



Construction & Procurement



Financing



O&M

CHINA

ANHUI GCL 32,686 kWp

116,736 modules
(GCL - 280 W)

January 2018



Mine lake

- Water surface: 167 ha
- Island surface: 33.50 ha
- Coverage ratio: 20%
- Maximum depth: 12.5 m
- Level variation: 4.8 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in China)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

CHINA

GCL JINING 6,776 kWp

24,640 modules
(GCL - 275 W)

April 2018



Mine lake

- Water surface: 70 ha
- Island surface: 6.89 ha
- Coverage ratio: ~10%
- Maximum depth: 14.1 m
- Level variation: 6.4 m



Bottom anchoring system



Hydrelio® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system
design



Hydrelio® supply
(made in China)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

TAIWAN

AGONGDIAN 9,994 kWp

34,013 modules
(ABLYTEK - 290/295 W)

December 2018



Water retention dam

- Water surface: - ha
- Island surface: 9.19 ha
- Coverage ratio: -%
- Maximum depth: - m
- Level variation: - m



Hybrid anchoring system: on shores + bottom



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



Construction & Procurement



Financing



O&M

TAIWAN

SUGU #2 1,133 kWp

3,840 modules
(AUO - 295 W)

April 2018



Irrigation reservoir

- Water surface: 3.23 ha
- Island surface: 0.91 ha
- Coverage ratio: 28%
- Maximum depth: 3.6 m
- Level variation: 2.4 m



Bank anchoring system



Hydrelio® Classic
60-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



Construction & Procurement:
- Construction supervision



Financing



O&M

TAIWAN

SUGU #1 4,023 kWp

13,410 modules
(RITEK - 300 W)

Completed in December 2018



Industrial reservoir

- Water surface: 8.81 ha
- Island surface: 1.35 ha
- Coverage ratio: 15%
- Maximum depth: ~14.0 m
- Level variation: ~5.0 m



Hybrid anchoring system: on shores + bottom



Hydrelio® Classic
60-cell PV modules

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



Construction & Procurement:
- Construction supervision



Financing



O&M

CHINA

ANHUI CECEP 70,005 kWp

194,731 modules
(LERRI SOLAR - 335/360 W)

★ **The current largest floating PV plant developed with Hydrelío® technology**

December 2018



Mine lake

- Water surface: - ha
- Island surface: 63.58 ha
- Coverage ratio: -%
- Maximum depth: 14.0 m
- Level variation: 3.9 m



Bottom anchoring system



Hydrelío® Classic
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in China)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

CAMBODIA

CMIC POND 2,835 kWp

7,768 modules
(JINKO SOLAR - 365 W)

★ The first in Cambodia and used for self-consumption

March 2019



Water storage reservoir

- Water surface: 3.25 ha
- Island surface: 2.43 ha
- Coverage ratio: 74%
- Maximum depth: 5.2 m
- Level variation: 5.2 m



Bank anchoring system



Hydrelion® Equato
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelion® supply
(made in Thailand)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

INDIA

CIAL GOLF COURSE 428 kWp

1,316 modules
(TRINA - 325 W)

★ The first in India

October 2019



Natural reservoir

- Water surface: 1.46 ha
- Island surface: 0.40 ha
- Coverage ratio: 28%
- Maximum depth: 5.6 m
- Level variation: 1.0 m



Bank anchoring system



Hydrelio® Equato
72-cell PV modules



SCOPE OF RESPONSIBILITY



Project
Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in India)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation
- Installation training



Financing



O&M



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