

Hydrelio[®]
Floating PV
System

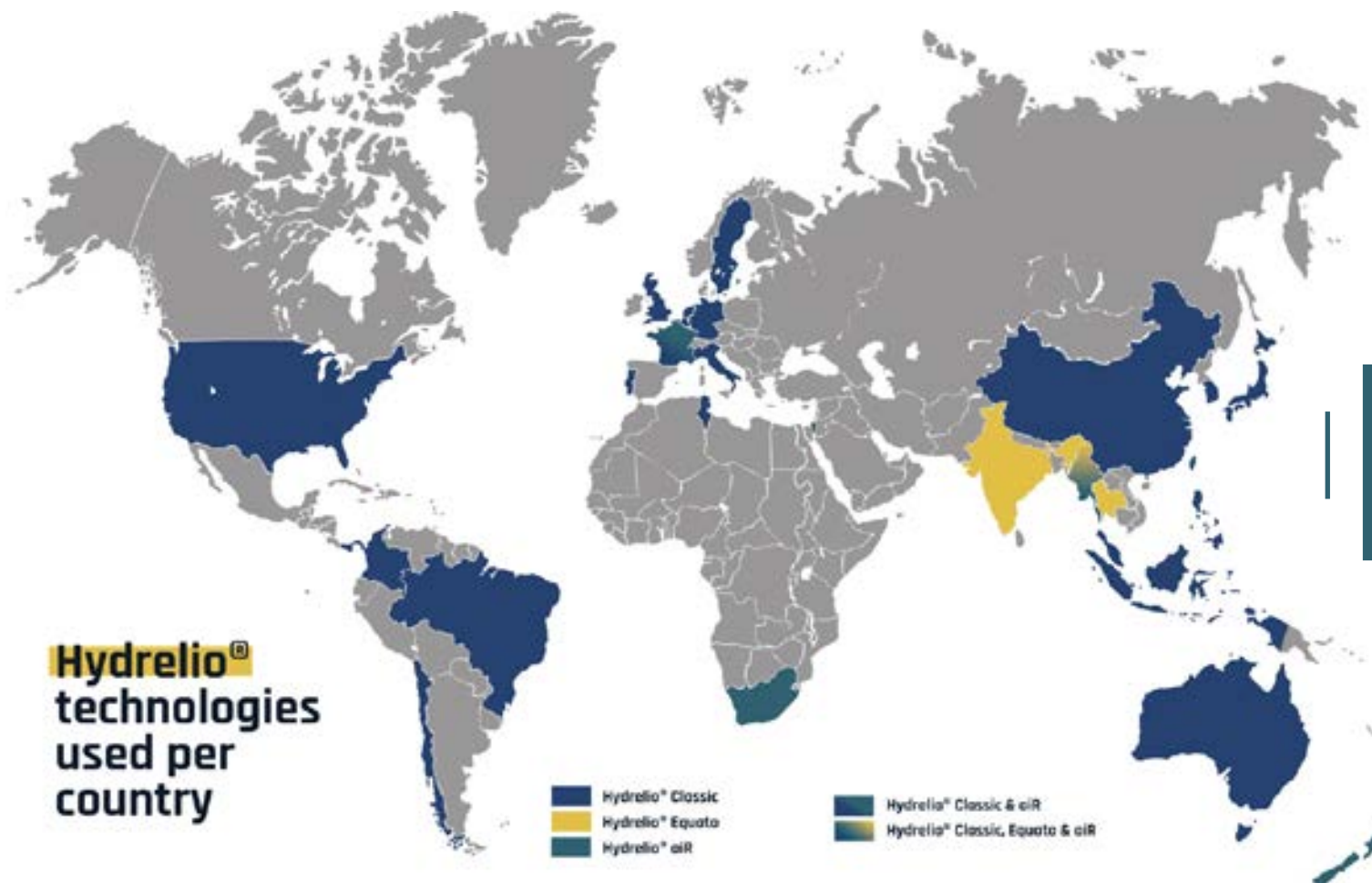
Our References



ACHIEVED PROJECTS

**230+
PROJECTS**

**590+
MWp**



**1 140
MWp**
in our Pipeline

ONGOING PROJECTS

**60
PROJECTS**

**550
MWp**

JAPAN

Okegawa	1,180 kWp	2013
Kawagoe	696 kWp	2014
Maeno Ike	848 kWp	
Yasugi	1,098 kWp	
Kato-shi	2,870 kWp	
Sakasama Ike	2,313 kWp	2015
Sawa Ike	1,008 kWp	
Fuku Ike	1,076 kWp	
Hirai Ike	1,125 kWp	
Hanamidai	1,153 kWp	
Funatsu Osawa	1,485 kWp	
Umenoki	7,550 kWp	
Kawarayama Ike	1,428 kWp	
Toriga Ike	630 kWp	
Sakurashita Ike	809 kWp	
Juman Ike	490 kWp	2016
Sohara Ike	2,398 kWp	
Naga Ike Nishi	1,078 kWp	
Kasaoka	973 kWp	
Kobe Oike	1,212 kWp	
Gono Ike	1,203 kWp	
Yakino Ike	1,714 kWp	
Hira Ike	1,260 kWp	
Tsuga Ike	2,449 kWp	
Hirono Shin Ike	1,751 kWp	
Isawa Ike	631 kWp	2017
Naga Ike Higashi	2,156 kWp	
Sayama Ootori Ike	2,502 kWp	
Sayama Nigori Ike	280 kWp	
Sakurakami Ike	1,992 kWp	
Hikona	660 kWp	
Kyuhin	1,188 kWp	
Kire Ike	691 kWp	
Gojiga Ike	572 kWp	
Noma Ike	2,435 kWp	
Tachiai Oku Ike	835 kWp	2018
Besso Ike	1,426 kWp	
Yukimine Kami Ike	1,568 kWp	
Shimoyama Ike	1,966 kWp	
Ootsuda Ike	973 kWp	
Daikai Ike	300 kWp	
Hirono Nigo Ike	1,261 kWp	
Sara Ike	1,176 kWp	
Hachigo Ike	2,402 kWp	
Komaga	2,297 kWp	
Tano Ike	2,548 kWp	

Osawa	2,449 kWp	2018
Bessho Sara Ike	540 kWp	
Yamakura dam	13,744 kWp	
Naka Ota Ike	2,435 kWp	
Iwano Ike	2,596 kWp	
Watashi Ike	2,170 kWp	
Yokota Cho Shiba/Kami	1,591 kWp	
Yokota Cho Shimo	853 kWp	
Otori Babe Iike	2,495 kWp	
Uwa Ike	637 kWp	
Ishitani Ike	660 kWp	2019
Higashi Ota Ike	2,435 kWp	
Ichinomiya Ike	2,242 kWp	
Togawa Ike	2,358 kWp	
Abe Ike	9,087 kWp	
Shimodori Ike	1,210 kWp	
Narasu Ike	2,802 kWp	
Higai Shin Ike	497 kWp	
Musashicho Furu Ike	807 kWp	
Musashicho Shin Ike	503 kWp	
Oda Ike	2,903 kWp	2020
Sasakuacho UE	594 kWp	
Sakasama Shita	665 kWp	
Sawahara	2,449 kWp	
Nakano Ike	1,204 kWp	
Katakami Oike	2,602 kWp	
Hyoshiga Ike	2,703 kWp	
Sakaya Tame Ike	633 kWp	
Yokawacho Kami Ike	621 kWp	
Kitsune Ike	2,861 kWp	
Hikuni Ike	1,308 kWp	2021
Jodo Ike	2,507 kWp	
Kaneibara Ike	864 kWp	
Hirono Ichigo Ike	1,634 kWp	
Innan Kita Ike	1,830 kWp	
Hanaoka Ike	2,289 kWp	
Kiya Ike	1,417 kWp	
Higainichou Ike	1,229 kWp	
Aoki Ike	1,574 kWp	
Ozaka Ike	2,660 kWp	
Kaya Manuma Ike	2,602 kWp	
Tsuji Ike	906 kWp	2022
Kimagase Ike	899 kWp	
Daido Ike	1,158 kWp	
Kotori Babe Ike	2,686 kWp	
Hotokedo Ike	838 kWp	
Yoshi Ike	1,768 kWp	

Hanaoka Ike	2,289 kWp	2020
Kiya Ike	1,417 kWp	
Higainichou Ike	1,229 kWp	
Aoki Ike	1,574 kWp	
Ozaka Ike	2,660 kWp	
Kaya Manuma Ike	2,602 kWp	
Tsuji Ike	906 kWp	
Kimagase Ike	899 kWp	
Daido Ike	1,158 kWp	
Kotori Babe Ike	2,686 kWp	
Hotokedo Ike	838 kWp	2021
Yoshi Ike	1,768 kWp	
Futamachi	200 kWp	
Saiko Ike	1,277 kWp	
Hiruta Ike	525 kWp	
Shinno Ike	1,261 kWp	
Ichiban & Niban Ike	1,971 kWp	
Magase Ike	2,385 kWp	
Hikita Ike	2,122 kWp	
Oniga Shiro	768 kWp	
Yakage Shin Ike	1,623 kWp	2022
Gotanda	729 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	2020
Sobradinho - BA (BR)	1,005 kWp	
OR Tech (OR, USA)	5 kWp	
Sayreville WTP (NJ, USA)	4,403 kWp	
Santa Lucia (CA, USA)	53 kWp	2021
Windsor Rd Pond (CA, USA)	1,786 kWp	
Miami Airport (FL, USA)	157 kWp	
Gardenia (OUC)	32 kWp	
City of Altamonte Spring	962 kWp	2022
GOAA Orlando airport	216 kWp	
Universal Studio	250 kWp	
Healdsburg Pond	4,780 kWp	
Sievert Lake	984 kWp	





ASIA & OCEANIA

Yothathikan pilot (TH)	5 kWp	2014
O-Chang #1 (KR)	495 kWp	2015
Sungai Labu (MY)	108 kWp	2016
Kas Green Energy (ID)	5 kWp	
Tengah (SG)	3 x 100 kWp	
Ulu Sepri (MY)	270 kWp	2017
Pirongji (KR)	706 kWp	
Shek Pik (HK)	99 kWp	
Goyeon #1 (KR)	934 kWp	
Chuckdongjae (KR)	90 kWp	2018
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	
GCL Jining (CN)	6,776 kWp	
Agongdian (TW)	9,994 kWp	
Sugu #1 (TW)	4,023 kWp	
Beishipi (TW)	1,998 kWp	2019
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	
CMIC (KH)	2,835 kWp	
SCCC Open Pit (TH)	498 kWp	
O-Chang #2 (KR)	2,506 kWp	
Cial Golf Course (IN)	452 kWp	2020
Wisewood (TH)	1,261 kWp	
Yonggyae (KR)	2,007 kWp	
Bachyun (KR)	954 kWp	
Kewpie (TH)	702 kWp	
Mahavajiralongkorn Hosp. (TH)	31 kWp	
Don Sai (TH)	1,988 kWp	
Gateway City (TH)	117 kWp	
Saha Group Industrial Park (TH)	478 kWp	
Rosedale (NZ)	1039 kWp	
Raw Water Pond (IN)	5,403 kWp	2021
Thoothukudi (IN)	14,800 kWp	

EMEA

Piolenç (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	2016
Reeders (EN)	50 kWp	
Godley (EN)	2,991 kWp	
Queen Elizabeth II (EN)	6,338 kWp	
Alto Rabagao (PT)	218 kWp	2017
Maxima Bridge (NL)	57 kWp	
Pontecorvo (IT)	343 kWp	
Cegonha (PT)	11 kWp	
Kairouan pilot (TN)	5 kWp	
Hesbaye Frost (BE)	998 kWp	
Engie Zaandam (NL)	26 kWp	
Engie Burgum (NL)	39 kWp	
Oosterhof Holfman (NL)	27 kWp	
Azalealaan (NL)	1,845 kWp	
Ashdot (IL)	269 kWp	2018
Slufter (NL)	51 kWp	
Marlenique Farm (ZA)	59 kWp	
Maiwald (DE)	749 kWp	2019
O'Mega 1 (FR)	17,015 kWp	
Cuba Este (PT)	998 kWp	
Kfar Hamaccabi (IL)	522 kWp	2020
Salzwedel (DE)	750 kWp	
Veldhunten (NL)	1,191 kWp	
Groillons (FR)	2,974 kWp	
Leimersheim (DE)	1,498 kWp	2021
Madone (FR)	250 kWp	
Terhills (BE)	1,006 kWp	
Differdange (LU)	3043 kWp	
Agro Hispamer (ES)	968 kWp	

TAIWAN

Taoyuan (TW)	481 kWp	2017
Caogangwei (TW)	500 kWp	2018
Sugu #2 (TW)	1,133 kWp	
Changhua Farm (TW)	1,996 kWp	
Sungu #1 (TW)	4,023 kWp	2019
Agongdian (TW)	9,994 kWp	
Beishipi (TW)	1,998 kWp	2020
Shanjiding (TW)	842 kWp	
Gongguan (TW)	4,268 kWp	
Changbin (TW)	88,038 kWp	2021
Jiali (TW)	1,261 kWp	
Dianbaoxi D (TW)	4,102 kWp	
Xiqian (TW)	21,571 kWp	
4th Water Way (TW)	10,266 kWp	
Wanxing (TW)	22,752 kWp	

HYDRELIO® FLOATING PV SYSTEM TAIWAN

170+
MWp



Achieved Projects

90+
MWp



On-going Projects

20+
Projects



FLAGSHIP PROJECT

CHANGBING - 88 038 kWp

- The biggest project for Ciel & Terre Taiwan with salty water
- Operated by: Chenya Energy



110 GWh/year
Expected annual
production



27 280 homes
Electrical consumption
equivalent



66 000 tons
of CO2 emissions
saved



SUGU #1
4 023 kWp

TAINAN, TAIWAN

Q4 2018

Reservoir

Type _____ Water treatment
Size _____ 8.8ha
Water _____ Brackish
Maximum depth _____ ~14m
Level variation _____ ~5m

Plant

Size: 3.6ha **{15%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Hybrid: Screw

Equivalent in households



1 248

Avoided emissions



3 018 tons



GRID INJECTION

13 410
PV MODULES

Main features

- 300W •
- 60-cell •
- Ritek •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

Reservoir

Type _____ Irrigation
 Size _____ 1.84ha
 Water _____ Brackish
 Maximum depth _____ ~6m
 Level variation _____ ~5.2m

Plant

Size: 0.4 ha { 22% }
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bank:
 Percussive driven earth anchors

Equivalent in households



150

Avoided emissions



362 tons



GRID INJECTION

1 632
PV MODULES

Main features

- 295W
- 60-cell
- GINTUNG

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in Taiwan)



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



Financing



O&M

Reservoir

Type _____ Water storage
 Size _____ 405ha
 Water _____ Brackish
 Maximum depth _____ ~7.8m
 Level variation _____ ~7.8m

Plant

Size: 9.19 ha { 2% }
coverage ratio

Hydrelio®
 Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Hybrid:
 Deadweight

Equivalent in households



3 099

Avoided emissions



7 496 tons



GRID INJECTION


34 013
PV MODULES

Main features

- 290W
- 60-cell
- Aplytek

SCOPE OF RESPONSIBILITY

 Project Development

 Project Engineering:
 - Floating array design
 - Anchoring system design

 Hydrelio® supply
 (made in Taiwan)

 Construction & Procurement:
 - Installation training

 Financing

 O&M

Reservoir

Type _____ Water treatment
 Size _____ 0.68ha
 Water _____ Brackish
 Maximum depth _____ ~2m
 Level variation _____ ~1.83m

Plant

Size: 0.46 ha { 66% }
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bank:
 Percussive driven earth anchors

Equivalent in households



155

Avoided emissions



375 tons



GRID INJECTION

1 694
PV MODULES

Main features

- 295W
- 60-cell
- Ritek

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in Taiwan)



Construction & Procurement:
 - Anchoring system supply
 - Anchoring installation
 - Construction supervision



Financing



O&M

SUGU #2
1 132 kWp

TAINAN, TAIWAN

Q2 2018

Reservoir

Type _____ Water treatment
 Size _____ 3.2ha
 Water _____ Brackish
 Maximum depth _____ ~3.6m
 Level variation _____ ~2.4m

Plant

Size: 0.91 ha **{28%}**
 coverage ratio

Hydrelio®
 Technology _____ Hydrelio® Classic
 Configuration _____ 2-in-a-row
 Anchoring system _____ Bank: Plate

Equivalent in households



352

Avoided emissions



850 tons



GRID INJECTION

3 840
PV MODULES

Main features

- 295W
- 60-cell
- AUO

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in Taiwan)



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



Financing



O&M

CHANGHUA FARM 1 996 kWp

CHANGHUA, TAIWAN

Q2 2018

Reservoir

Type _____ Irrigation
Size _____ 3.3ha
Water _____ Brackish
Maximum depth _____ ~5m
Level variation _____ ~5m

Plant

Size: 1.87 ha **{56%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bottom: Plate

Equivalent in households



619

Avoided emissions



1 498 tons



GRID INJECTION

6 768

PV MODULES

Main features

- 295W
- 60-cell
- TSEC

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

BEISHIPI
1 998 kWp

TAINAN, TAIWAN

Q2 2018

Reservoir

Type _____ Water treatment
Size _____ 4.2ha
Water _____ Brackish
Maximum depth _____ ~4m
Level variation _____ ~2.5m

Plant

Size: 1.59 ha **{38%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 2-in-a-row
Anchoring system _____ Bank:
Percussive driven earth anchors

Equivalent in households



620

Avoided emissions



1 499 tons



GRID INJECTION

6 660
PV MODULES

Main features

- 300W
- 60-cell
- Ritek

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

SHANJIDING 842 kWp

KAOHSIUNG, TAIWAN

Q4 2019

Reservoir

- Type _____ Water Storage
- Size _____ 1.2 ha
- Water _____ Fresh
- Maximum depth _____ ~14m
- Level variation _____ ~5.5m

Size: 0.74ha

{59%}
coverage ratio

Plant

- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bank: Screw

Equivalent in households



307

Avoided emissions



547 tons



GRID INJECTION

2 160
PV MODULES

Main features

- 390W •
- 72-cell •
- AUO •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

JIALI
1 251 kWp

TAINAN, TAIWAN

Q4 2020

Reservoir

Type _____ Other
Size _____ 1.7ha
Water _____ Brackish
Maximum depth _____ ~6m
Level variation _____ ~2.5m

Size: 1.09 ha

{ 66% }
coverage ratio

Plant

Hydrelio®

Technology _____ Hydrelio® aiR
Configuration _____ 2-in-a-row
Anchoring system _____ Hybrid:
Screw

Equivalent in households



389

Avoided emissions



939 tons



GRID INJECTION

3 294
PV MODULES

Main features

- 380W •
- 72-cell •
- Anji •

SCOPE OF RESPONSIBILITY



Project Development



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



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

CHANGBING
88 038 kWp

CHANGHUA, TAIWAN

Q4 2020

Reservoir

Type _____ Open-sea
Size _____ 86.16ha
Water _____ Salty
Maximum depth _____ ~5m
Level variation _____ ~4.25m

Plant

Hydrelio®

Technology _____ Hydrelio® aiR
Configuration _____ 2-in-a-row
Anchoring system _____ Bottom:
Deadweight

Equivalent in households



27 293

Avoided emissions



66 030 tons

Size: 72.06 ha {84%}
coverage ratio



GRID INJECTION

279 488
PV MODULES

Main features

- 315W
- 60-cell
- Canadian Solar

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design



Hydrelio® supply
(made in Taiwan)



Construction & Procurement:
- Installation training



Financing



O&M



Reservoir

Type _____ Water treatment
 Size _____ 6ha
 Water _____ Brackish
 Maximum depth _____ ~24m
 Level variation _____ ~6m

Plant

Size: 3.72 ha **{62%}**
 coverage ratio

Hydrelio® Technology _____ Hydrelio® aiR
 Configuration _____ 2-in-a-row
 Anchoring system _____ Hybrid: Screw

Equivalent in households



1 353

Avoided emissions



3 273 tons



GRID INJECTION

11 484
PV MODULES

Main features

- 380W
- 72-cell
- Canadian Solar

SCOPE OF RESPONSIBILITY

Project Development

Project Engineering:
 - Floating array design
 - Anchoring system design

Hydrelio® supply (made in Taiwan)

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

Financing

O&M

Reservoir

Type _____ Water storage
Size _____ 8.7 ha
Water _____ Fresh
Maximum depth _____ ~5.8m
Level variation _____ ~5.8m

Plant

Size: 3.4 ha **{34%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ Dual Orientation
Anchoring system _____ Bank:
Screw

Equivalent in households



1 509

Avoided emissions



2 690 tons



GRID INJECTION

10 476
PV MODULES

Main features

- 395W •
- 72-cell •
- TSEC •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

Reservoir

Type _____ Water storage
Size _____ 30.7 ha
Water _____ Fresh
Maximum depth _____ ~4.5m
Level variation _____ ~5m

Plant

Size: 15.5 ha **{50%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ Dual Orientation
Anchoring system _____ Hybrid:
Screw

Equivalent in households



7 865

Avoided emissions



14 026 tons



GRID INJECTION

54 612
PV MODULES

Main features

- 395W
- 72-cell
- TSEC

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

WANXING
22 752 kWp

CHANGHUA, TAIWAN

Q2 2021

Reservoir

- Type _____ Water storage
- Size _____ 29.7 ha
- Water _____ Fresh
- Maximum depth _____ ~12.3m
- Level variation _____ ~3.4m

Size: 18.5ha

{ 62.5% }
coverage ratio

Plant

Hydrelio®

- Technology _____ Hydrelio® aiR
- Configuration _____ 2-in-a-row
- Anchoring system _____ Hybrid: Screw

Equivalent in households



8 295

Avoided emissions



14 794 tons



GRID INJECTION

57 600
PV MODULES

Main features

- 395W •
- 72-cell •
- TSEC •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

4TH WATERWAY 10 266 kWp

CHANGHUA, TAIWAN

Q2 2021

Reservoir

- Type _____ Water storage
- Size _____ 22.6 ha
- Water _____ Fresh
- Maximum depth _____ ~14.2m
- Level variation _____ ~3.2m

Size: 8.6ha

{ **38.03%** }
coverage ratio

Plant

Hydrelio®

- Technology _____ Hydrelio® aiR
- Configuration _____ 2-in-a-row
- Anchoring system _____ Hybrid: Screw

Equivalent in households



3 743

Avoided emissions



6 675 tons



GRID INJECTION

25 992
PV MODULES

Main features

- 395W
- 72-cell
- TSEC

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Taiwan)



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



Financing



O&M

HYDRELIO[®] FLOATING PV SYSTEM IN JAPAN

175+
MWp



Achieved Projects

25
MWp



On-going Projects

125+
Projects



FLAGSHIP PROJECT

Kayamanuma - 2 604kWp

- Post Yamakura project reflecting the new design concept, installed under COVID-19 harsh situation
- Operated by: Suiden Mizuumi
- Main benefit: Benchmark for the following project



2 457 MWh/year
Expected annual
production



546 homes
Electrical consumption
equivalent



1 240 tons
of CO2 emissions
saved



HIGAI NICHOU IKE 1 229 kWp

NARA, JAPAN

Q3 2019



Reservoir

- Type _____ Irrigation
- Size _____ 1.66ha
- Water _____ Fresh
- Maximum depth _____ ~10m
- Level variation _____ ~3m

Plant

- Size: 1.16 ha { 70% }
coverage ratio
- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Screw

Equivalent in households



258

Avoided emissions



586 tons



GRID INJECTION

3 276
PV MODULES

Main features

- 375W
- 72-cell
- SUNTECH

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Japan)



Construction & Procurement:
- Anchoring system supply
- Construction supervision



Financing



O&M

HANAOKA IKE 2 290 kWp

HYOGO, JAPAN

Q1 2020

Reservoir

Type _____ Irrigation
 Size _____ 4.4ha
 Water _____ Fresh
 Maximum depth _____ ~10m
 Level variation _____ ~3m

Plant

Size: 2.07 ha { 47% }
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Screw

Equivalent in households



481

Avoided emissions



1 091 tons



GRID INJECTION

6 104
PV MODULES

Main features

- 375W
- 72-cell
- SUNTECH

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Anchoring system supply
- Construction supervision



Financing



O&M

HYOSHIGA IKE 2 703 kWp

HYOGO, JAPAN

Q1 2019



Reservoir

- Type _____ Irrigation
- Size _____ 6.07ha
- Water _____ Fresh
- Maximum depth _____ ~4m
- Level variation _____ ~4m

Plant

- Size: 2.75 ha { 45% }
coverage ratio
- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Plate

Equivalent in households



488

Avoided emissions



1 107 tons



GRID INJECTION

10 010
PV MODULES

Main features

- 270W
- 60-cell
- ASTROENERGY

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Japan)



Construction & Procurement:
- Installation training



Financing



O&M

**SAKASAMA KAMI &
SHIMO IKE
1 259 kWp**

HYOGO, JAPAN

Q4 2018

Reservoir

Type _____ Irrigation
 Size _____ 1.99ha
 Water _____ Fresh
 Maximum depth _____ ~2.5m
 Level variation _____ ~1m

Plant

Size: 1.26 ha **{63%}**
 coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Plate

Equivalent in households



396

Avoided emissions



899 tons



GRID INJECTION

**3 546
PV MODULES**

Main features

- 355W
- 72-cell
- AKCOM

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in Japan)



Construction & Procurement:
 - Anchoring system supply
 - Construction supervision



Financing



O&M

ICHINOMIYA IKE 2 242 kWp

KAGAWA, JAPAN

Q2 2018

Reservoir

- Type — Irrigation
- Size — 6.93ha
- Water — Fresh
- Maximum depth — ~5m
- Level variation — ~3m

Size: 2.18 ha

{ 31% }
coverage ratio

Plant

Hydrelio®

- Technology — Hydrelio® Classic
- Configuration — 1-in-a-row
- Anchoring system — Bottom: Plate

Equivalent in households

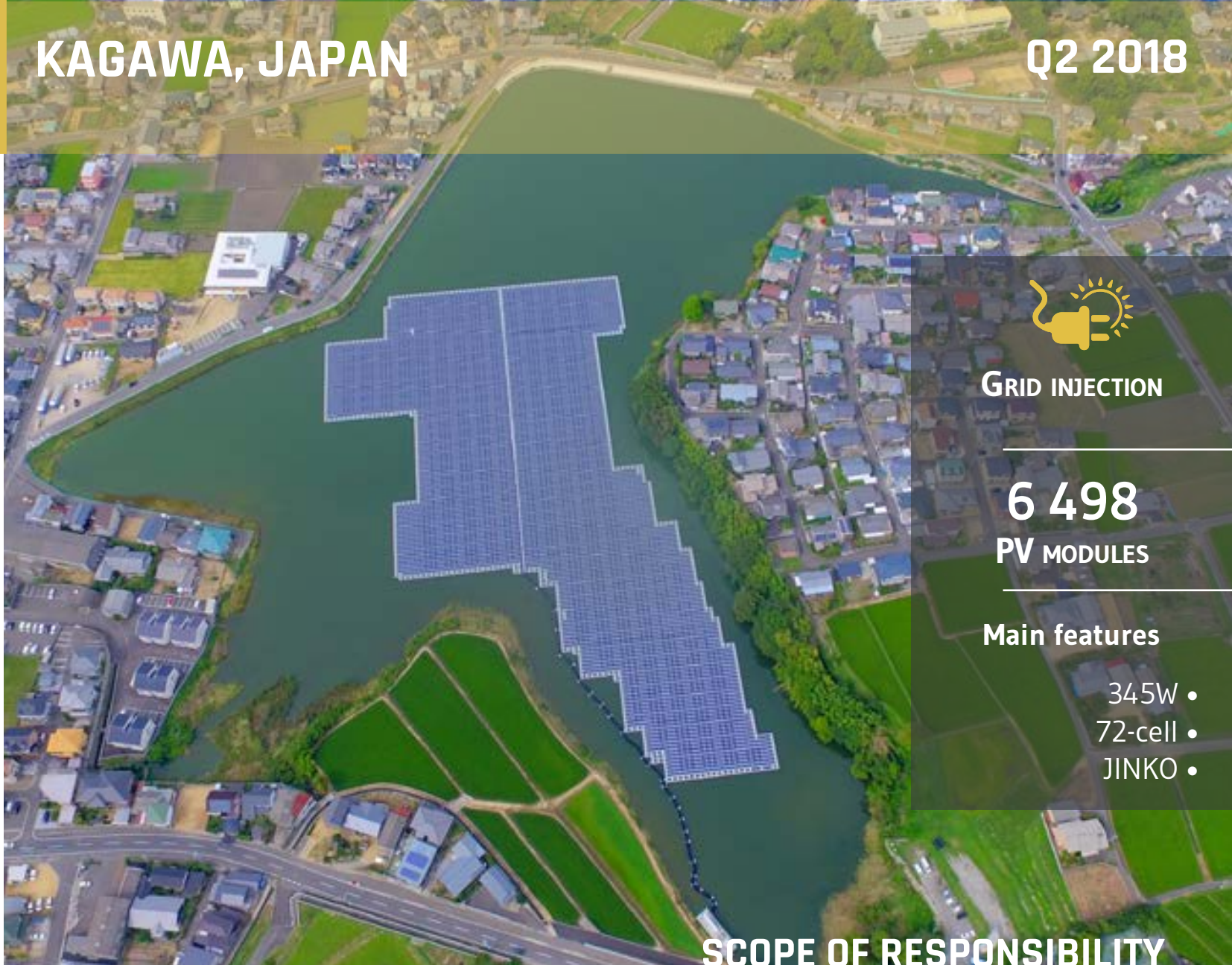


563

Avoided emissions



1 278 tons



GRID INJECTION

6 498
PV MODULES

Main features

- 345W
- 72-cell
- JINKO

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Anchoring system supply
- Construction supervision



Financing



O&M

IWANO IKE
2 596 kWp

OKAYAMA, JAPAN

Q2 2018

Reservoir

Type _____ Irrigation
Size _____ 4.87ha
Water _____ Fresh
Maximum depth _____ ~2m
Level variation _____ ~2m

Size: 2.36 ha

{ 48% }
coverage ratio

Plant

Hydrelio®

Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bottom: Plate

Equivalent in households



527

Avoided emissions



1 196 tons



GRID INJECTION

8 800
PV MODULES

Main features

- 295W
- 60-cell
- TRINA

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Installation training



Financing

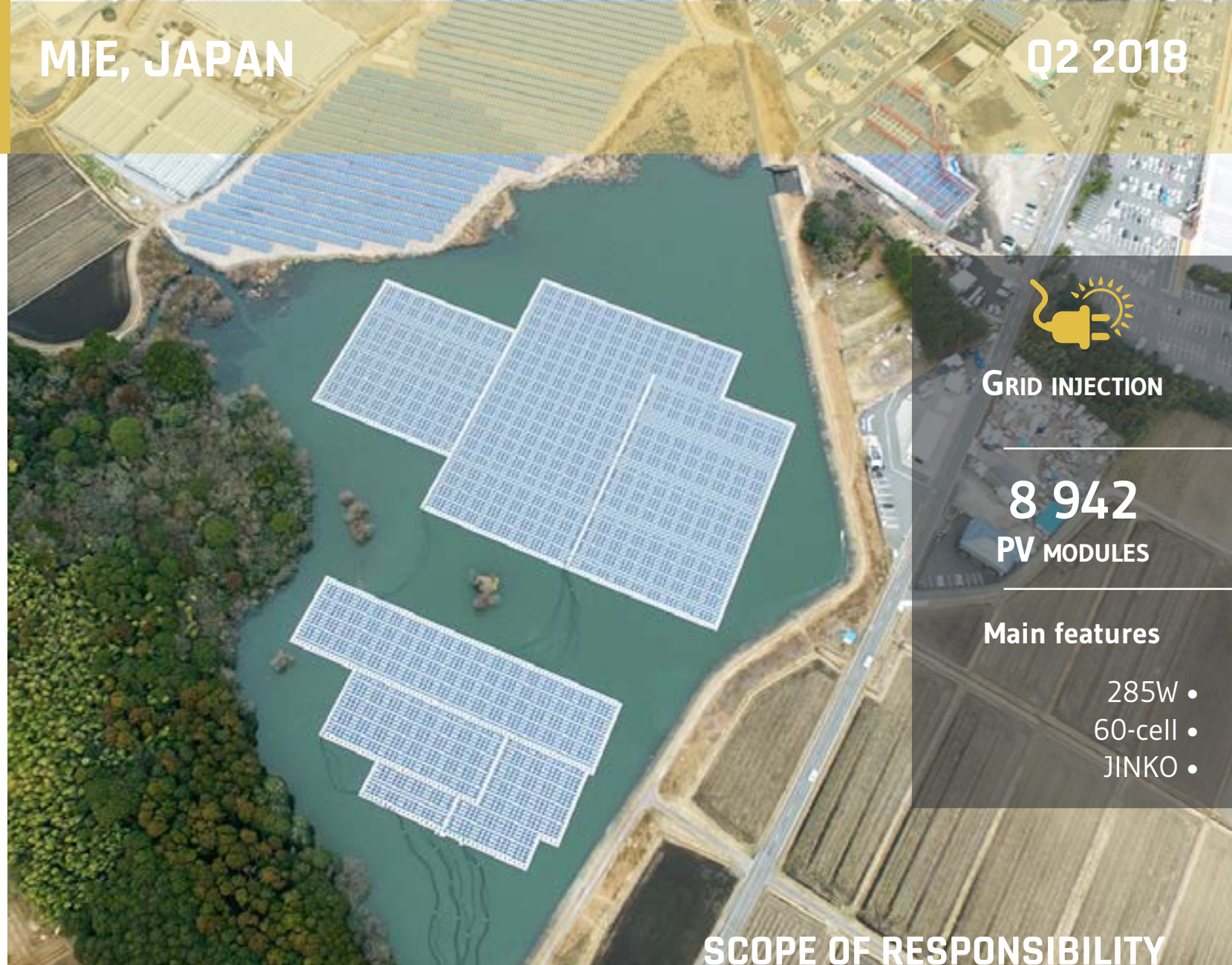


O&M

TANO IKE 2 548 kWp

MIE, JAPAN

Q2 2018



Reservoir

- Type _____ Irrigation
- Size _____ 5.7ha
- Water _____ Fresh
- Maximum depth _____ ~5m
- Level variation _____ ~2m

Plant

Size: 2.5 ha

{ 44% }
coverage ratio

Hydrelio®

- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Plate

Equivalent in households



536

Avoided emissions



1 218 tons



GRID INJECTION

8 942
PV MODULES

Main features

- 285W •
- 60-cell •
- JINKO •

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

ISAWA IKE 631 kWp

TOKUSHIMA, JAPAN

Q4 2016

Reservoir

- Type — Irrigation
- Size — 1.19ha
- Water — Fresh
- Maximum depth — ~6m
- Level variation — ~2m

Plant

- Size: 0.68 ha **{ 57% }**
coverage ratio
- Technology — Hydrelío® Classic
- Configuration — 1-in-a-row
- Anchoring system — Bottom: Plate

Equivalent in households



154

Avoided emissions



350 tons



GRID INJECTION

2 340
PV MODULES

Main features

- 270W
- 60-cell
- KYOCERA

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Japan)



Construction & Procurement:
- Construction supervision



Financing



O&M

UMENOKI 7 550 kWp

SAITAMA, JAPAN

Q4 2015

Reservoir

- Type _____ Irrigation
- Size _____ 12.93ha
- Water _____ Fresh
- Maximum depth _____ ~6m
- Level variation _____ ~6.9m

Size: 7.43 ha

{ 57% }
coverage ratio

Plant

Hydrelio®

- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Plate

Equivalent in households



1 533

Avoided emissions



3 479 tons

Our 1st ultra high voltage project



GRID INJECTION

27 456
PV MODULES

Main features

- 275W •
- 60-cell •
- YINGLI •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Installation training



Financing



O&M

Reservoir

Type _____ Water storage
 Size _____ 3.07ha
 Water _____ Fresh
 Maximum depth _____ ~6m
 Level variation _____ ~6m

Plant

Size: 1.16 ha **{38%}**
 coverage ratio

Hydrelio®
 Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Deadweight

Equivalent in households



240

Avoided emissions



544 tons

Our 1st industrial plant
in Japan



GRID INJECTION

4 536
PV MODULES

Main features

- 260W
- 60-cell
- JA SOLAR

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement:
- Installation training



Financing



O&M

NARAHAMACHI 1 & 2 320 kWp

FUKUSHIMA, JAPAN

Q1 2019

Reservoir

- Type _____ Water storage
- Size _____ 0.77ha
- Water _____ Fresh
- Maximum depth _____ ~2.7m
- Level variation _____ ~2.6m

Plant

- Size: 0.35 ha { 45% }
coverage ratio
- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Plate

Equivalent in households



65

Avoided emissions



174 tons



Dry pond application



SELF CONSUMPTION
(PARTIAL)

1 122
PV MODULES

Main features

- 280W •
- 60-cell •
- JAPAN SOLAR •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Installation training



Financing



O&M

Reservoir

Type _____ Water storage
 Size _____ 1.53ha
 Water _____ Fresh
 Maximum depth _____ ~5.76m
 Level variation _____ ~2.26m

Plant

Size: 0.2 ha

{13%}
coverage ratio

Hydrelio®
 Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Deadweight

Equivalent in households



41

Avoided emissions



94 tons

Dry pond application



SELF CONSUMPTION
(PARTIAL)

535
PV MODULES

Main features

- 375W
- 72-cell
- SUNTECH

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in Japan)



Construction & Procurement:
- Installation training



Financing



O&M

HYDRELIO® FLOATING PV SYSTEM IN ASIA & OCEANIA

170
MWp



Achieved Projects

199
MWp



On-going Projects

30+
Projects



FLAGSHIP PROJECT

Anhui CECEP - 70 005 kWp

- Operated by: CECEP
- Main benefit: rehabilitate a former flooded coal mine



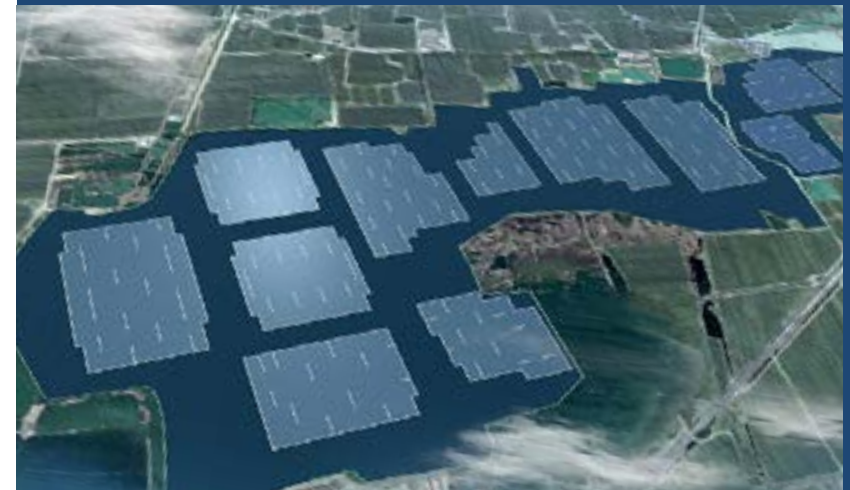
82 GWh/year
Expected annual
production



20 910 homes
Electrical consumption
equivalent



66 000 tons
of CO2 emissions
saved



Reservoir

Type _____ Recreation
Size _____ 1.46ha
Water _____ Fresh
Maximum depth _____ ~2m
Level variation _____ ~1.02m

Plant

Size: 0.4 ha

{ 27.7% }
coverage ratio

Hydrelío®

Technology _____ Hydrelío® Equato
Configuration _____ 4-in-a-row
Anchoring system _____ Bank: Plate

Avoided emissions



547 tons



SELF CONSUMPTION
(PARTIAL)

1 316
PV MODULES

Main features

- 325W
- 72-cell
- TRINA

SCOPE OF RESPONSIBILITY

Project Development

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

Hydrelío® supply
(made in India)

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

Financing

O&M

RAW WATER POND (SGTPP) 5 500 kWp

WEST BENGAL, INDIA

Q4 2020

Reservoir

- Type _____ Water storage
- Size _____ 10.22ha
- Water _____ Fresh
- Maximum depth _____ ~8m
- Level variation _____ ~2m

Plant

Size: 5.2 ha **{ 50.75% }**
coverage ratio

- Technology _____ Hydrelío® Equato
- Configuration _____ 4-in-a-row
- Anchoring system _____ Bank: Screw

Avoided emissions



5 838 tons



**SELF CONSUMPTION
(PARTIAL)**

**16 880
PV MODULES**

Main features

- 320W •
- 72-cell •
- BHEL •

SCOPE OF RESPONSIBILITY



Project Development



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



Hydrelío® supply
(made in India)



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



Financing



O&M

Reservoir

- Type _____ Water storage
- Size _____ 15.6ha
- Water _____ Fresh
- Maximum depth _____ ~6m
- Level variation _____ ~3m

Plant

Size: 12.8 ha

{71%}
coverage ratio

Hydrelio®

- Technology _____ Hydrelio® Equato
- Configuration _____ 4-in-a-row
- Anchoring system _____ Bank: Screw

Avoided emissions



18 686 tons



SELF CONSUMPTION
(PARTIAL)

37 632
PV MODULES

Main features

- 380W •
- 72-cell •
- JINKO •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:

- Floating array design
- Anchoring system design
- Electrical design



Hydrelio® supply
(made in India)



Construction & Procurement:

- Construction supervision
- Installation training



Financing



O&M

SAHA PARK 478 kWp

SRIRACHA DISTRICT, THAILAND

Q4 2020



Reservoir

- Type _____ Water storage
- Size _____ 4.5ha
- Water _____ Fresh
- Maximum depth _____ 2.3m
- Level variation _____ 0.8m

Plant

- Size: 0.5 ha **{11%}**
coverage ratio
- Technology _____ Hydrelío® aiR
- Configuration _____ 2-in-a-row
- Anchoring system _____ Hybrid:
Deadweight



SELF CONSUMPTION (FULL)

1 260
PV MODULES

Main features

- 380W •
- 72-cell •
- LONGI •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Thailand)



Construction & Procurement:
- Mooring line system supply
- Installation training



Financing



O&M

Reservoir

Type _____ Water treatment
 Size _____ 34ha
 Water _____ Fresh
 Maximum depth _____ 39.3m
 Level variation _____ 3.3m

Plant

Size: 0.97 ha **{3%}**
 coverage ratio

Hydrelio®

Technology _____ Hydrelio® aiR
 Configuration _____ 4-in-a-row
 Anchoring system _____ Bottom: Deadweight



1st FPV plant in the country and largest PV plant



SELF CONSUMPTION
(PARTIAL)


2 736
PV MODULES


Main features

- 380W •
- 72-cell •
- JA SOLAR •

SCOPE OF RESPONSIBILITY

 Project Development

 Project Engineering:
- Floating array design
- Anchoring system design

 Hydrelio® supply
(made in Thailand)

 Construction & Procurement:
- Mooring line system supply
- Installation training

 Financing

 O&M

Reservoir

- Type _____ Water storage
- Size _____ 63ha
- Water _____ Fresh
- Maximum depth _____ ~12m
- Level variation _____ 6.2m

Plant

Size: 0.13 ha {0.002%}
coverage ratio

- Technology _____ Hydrelío® aiR
- Configuration _____ 4-in-a-row
- Anchoring system _____ Hybrid: Screw



Bank & bottom anchoring system



SELF CONSUMPTION
(PARTIAL)

361
PV MODULES


Main features

- 325W •
- 72-cell •
- Canadian Solar •

SCOPE OF RESPONSIBILITY


 Project Development

 Project Engineering:
- Floating array design
- Anchoring system design

 Hydrelío® supply
(made in Thailand)

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

 Financing

 O&M

DON SAI
1 988 kWp

RATCHABURI, THAILAND

Q2 2020

Reservoir

Type _____ Water treatment
Size _____ 4.8ha
Water _____ Fresh
Maximum depth _____ 15.5m
Level variation _____ 6m

Plant

Size: 2.06 ha **{43%}**
coverage ratio

Hydrelío®
Technology _____ Hydrelío® aiR
Configuration _____ 4-in-a-row
Anchoring system _____ Bank:
Percussive driven earth anchors



SELF CONSUMPTION (FULL)

6 023
PV MODULES

Main features

- 330W •
- 72-cell •
- RISEN •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Japan)



Construction & Procurement
- Anchoring system supply
- Anchoring installation



Financing



O&M

WISEWOOD
1 261 kWp

PHETCHABURI, THAILAND

Q4 2019

Reservoir

Type _____ Water treatment
Size _____ 2.62ha
Water _____ Fresh
Maximum depth _____ 10m
Level variation _____ 2m

Size: 1.11 ha

{ 43% }
coverage ratio

Plant

Hydrelío®

Technology _____ Hydrelío® aiR
Configuration _____ 4-in-a-row
Anchoring system _____ Bank:
Screw



SELF CONSUMPTION (FULL)

3 275
PV MODULES

Main features

- 385W
- 72-cell
- TRINA

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



Reservoir

- Type _____ Water treatment
- Size _____ 1.12ha
- Water _____ Fresh
- Maximum depth _____ 4m
- Level variation _____ 1m

Plant

Size: 0.62 ha

{55%}
coverage ratio

Hydrelío®

- Technology _____ Hydrelío® aiR
- Configuration _____ 2-in-a-row
- Anchoring system _____ Bank:
Percussive driven earth anchors



SELF CONSUMPTION (FULL)

1 872
PV MODULES

Main features

- 375W •
- 72-cell •
- REC •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in Thailand)



Construction & Procurement:
- Anchoring system supply
- Anchoring installation



Financing



O&M

SCC OPEN PIT 498 kWp

SARABURI, THAILAND

Q3 2019

Reservoir

- Type _____ Quarry and mining
- Size _____ 1.89ha
- Water _____ Fresh
- Maximum depth _____ 87.1m
- Level variation _____ 15.62m

Plant

Size: 0.44 ha

{ 23% }
coverage ratio

Hydrelio®

- Technology _____ Hydrelio® aiR
- Configuration _____ 4-in-a-row
- Anchoring system _____ Bank: Screw



SELF CONSUMPTION
(PARTIAL)

1 277
PV MODULES

Main features

- 390W •
- 72-cell •
- JINKO •

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



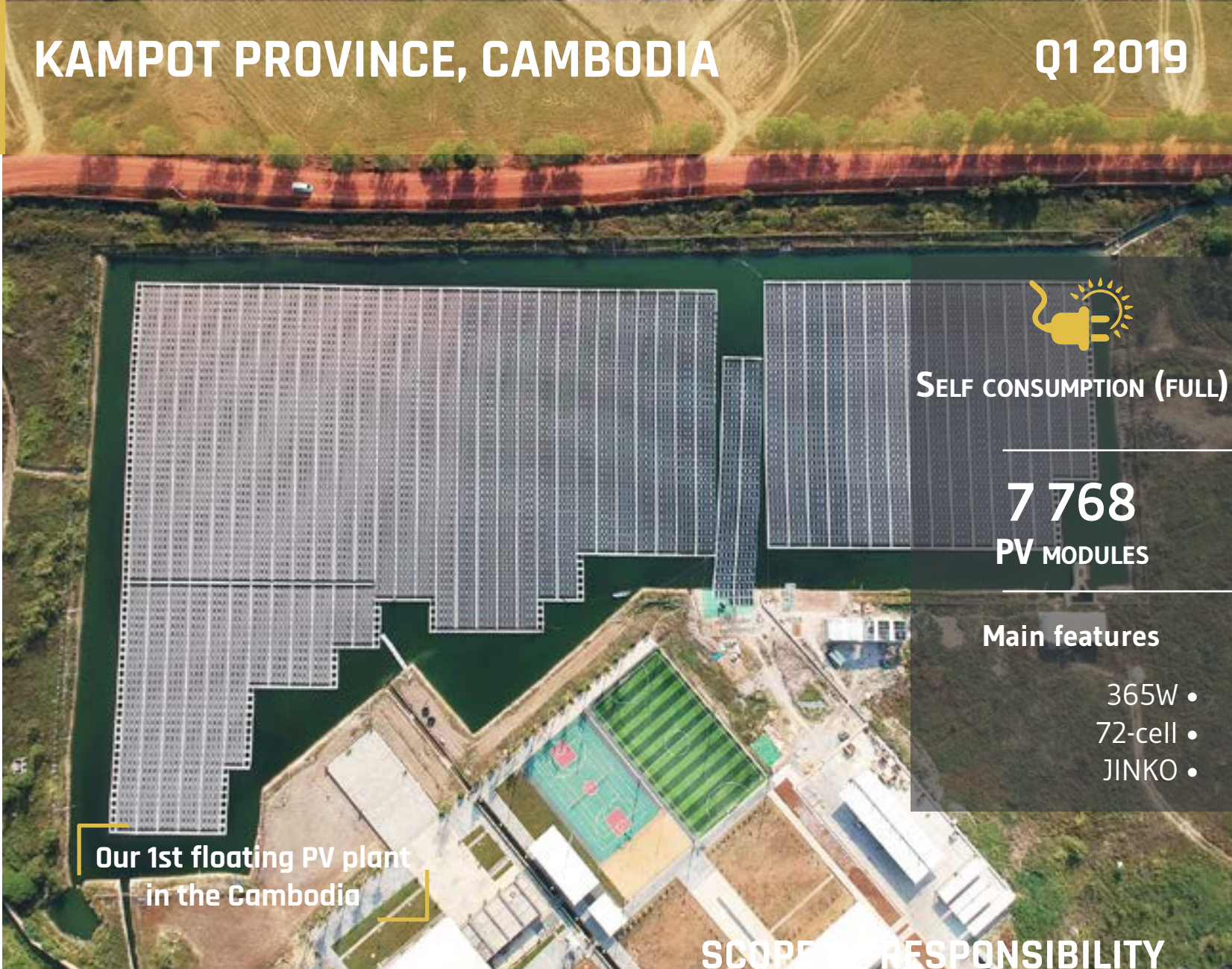
O&M

Reservoir

- Type _____ Water storage
- Size _____ 3.25ha
- Water _____ Fresh
- Maximum depth _____ 5.2m
- Level variation _____ 5.2m

Plant

- Size: 2.43 ha { 74% }
coverage ratio
- Hydrelío®** Technology _____ Hydrelío® Equato
- Configuration _____ 4-in-a-row
- Anchoring system _____ Bank: Screw



SELF CONSUMPTION (FULL)

7 768
PV MODULES

Main features

- 365W •
- 72-cell •
- JINKO •

**Our 1st floating PV plant
in the Cambodia**

SCOPE RESPONSIBILITY

Project Development

Project Engineering:
- Floating array design
- Anchoring system design

Hydrelío® supply
(made in Thailand)

Construction & Procurement:
- Anchoring system supply
- Anchoring installation

Financing

O&M



Reservoir

- Type _____ Quarry and mining
- Size _____ 130ha
- Water _____ Fresh
- Maximum depth _____ ~14m
- Level variation _____ ~3.9m

Plant

- Size: 63.58 ha **{ 45% }**
coverage ratio
- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom:
Screw

Equivalent in households



35 000

Avoided emissions



80 300 tons



GRID INJECTION

194 731
PV MODULES

Main features

- 335/360W •
- 72-cell •
- Lerri Solar •

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

GCL JINING
6 776 kWp

SHANDONG, CHINA

Q2 2018

Reservoir

Type _____ Quarry and mining
Size _____ 70ha
Water _____ Fresh
Maximum depth _____ ~14.1m
Level variation _____ ~6.4m

Plant

Size: 6.89 ha

{10%}
coverage ratio

Hydrelio®

Technology _____ Hydrelio® Classic

Configuration _____ 1-in-a-row

Anchoring system _____ Bottom:
Percussive driven earth anchors

Equivalent in households



3 200

Avoided emissions



7 760 tons



GRID INJECTION

24 640
PV MODULES

Main features

- 275W
- 60-cell
- GCL

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

ANHUI GCL
32 686 kWp

ANHUI, CHINA

Q1 2018

Reservoir

Type _____ Quarry and mining
Size _____ 167ha
Water _____ Fresh
Maximum depth _____ ~12.5m
Level variation _____ ~4.8m

Plant

Size: 33.5 ha **{20%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bottom: Screw

Equivalent in households



15 800

Avoided emissions



37 800 tons



GRID INJECTION

116 736
PV MODULES

Main features

- 280W •
- 60-cell •
- GCL •

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

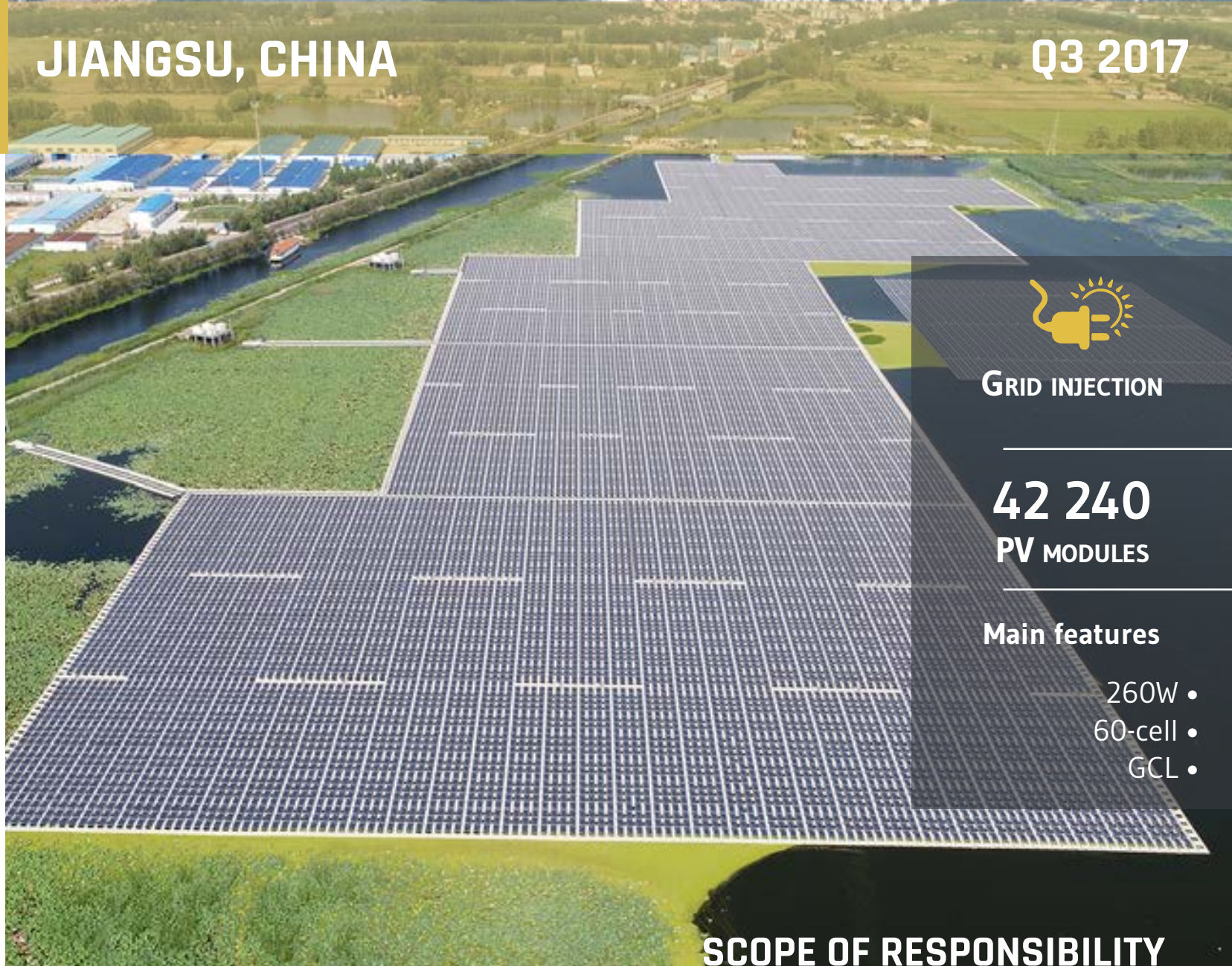


O&M

PEI COUNTY
9 982 kWp

JIANGSU, CHINA

Q3 2017



Reservoir

Type _____ Irrigation
Size _____ 35.6ha
Water _____ Fresh
Maximum depth _____ ~8m
Level variation _____ ~8m

Plant

Size: 10.35 ha **{29%}**
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bottom:
Percussive driven earth anchors

Equivalent in households



5 270

Avoided emissions



12 600 tons



GRID INJECTION

42 240
PV MODULES

Main features

- 260W
- 60-cell
- GCL

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

Reservoir

Type _____ Hydroelectricity
Size _____ 49.12ha
Water _____ Fresh
Maximum depth _____ ~13.8m
Level variation _____ ~11.3m

Plant

Size: 0.56 ha {1%}
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bottom: Deadweight

Equivalent in households

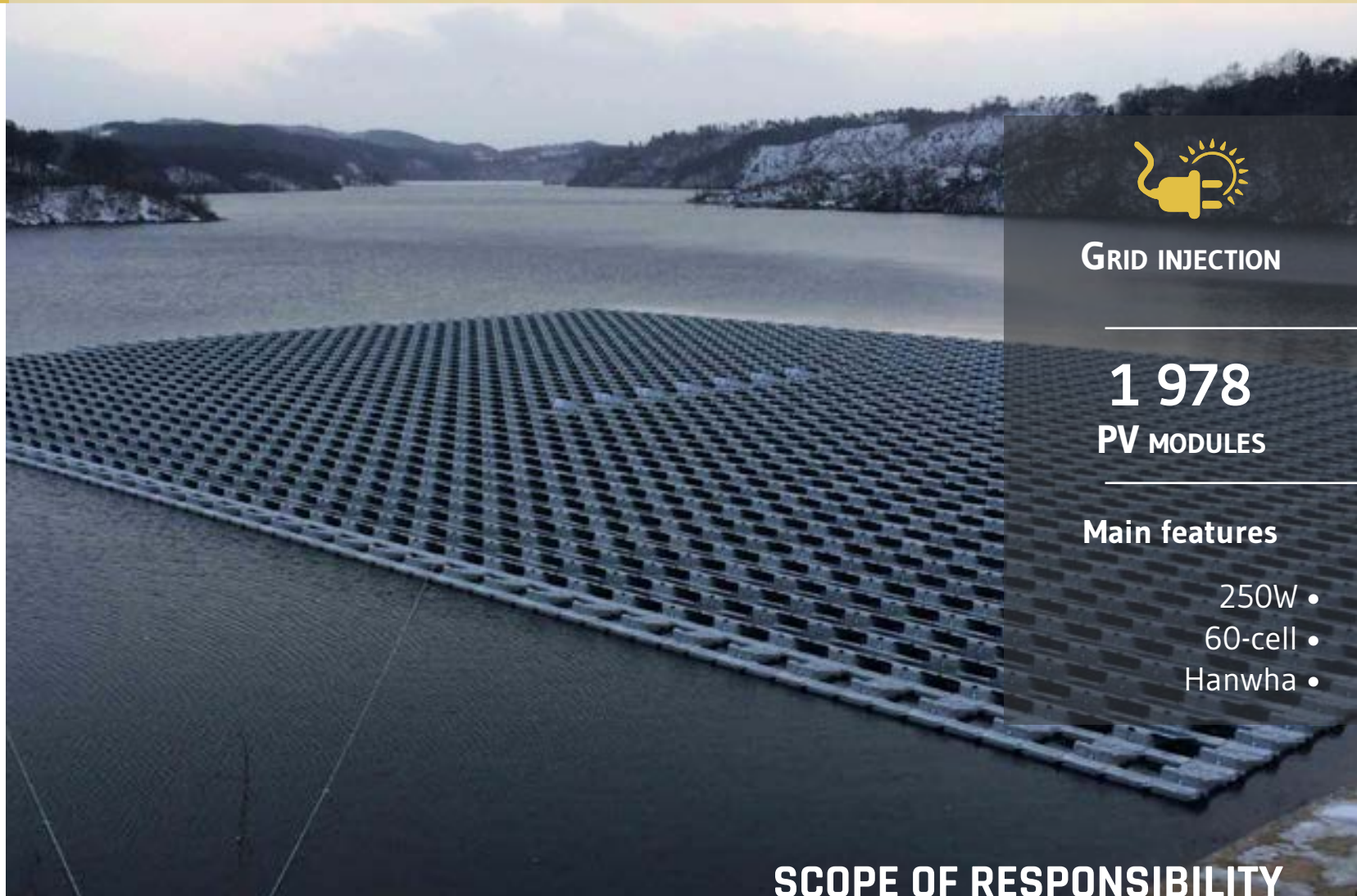


815

Avoided emissions



2 331 tons



GRID INJECTION

1 978
PV MODULES

Main features

- 250W
- 60-cell
- Hanwha

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

HYDRELIO® FLOATING PV SYSTEM IN NORTH AND LATIN AMERICA

15+
MWp



Achieved Projects

100
MWp



On-going Projects

**NORTH
AMERICA**



40+
Projects

**LATIN
AMERICA**



10+
Projects

FLAGSHIP PROJECT

Windsor - 1 500kWp

- First MW-scale project in CA with PPA with a water district
- Operated by: Collins Electric
- Main benefit: offset 90% of the water treatment electrical consumption

 **5 000 MWh/year**
Expected annual production

 **350 tons**
of CO2 emissions saved



Reservoir

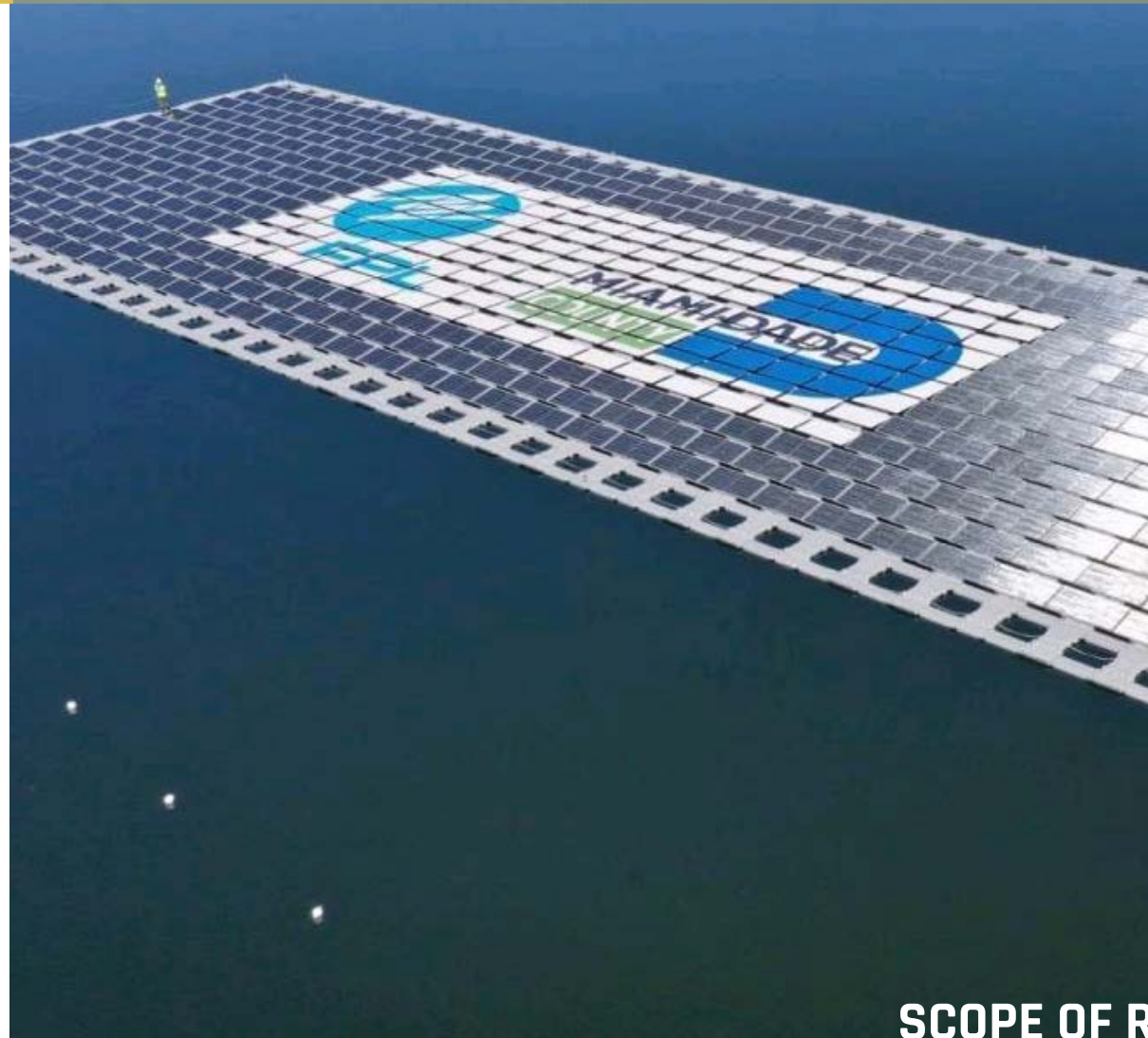
Type _____ Other
 Size _____ 11.3ha
 Water _____ Fresh
 Maximum depth _____ ~5m
 Level variation _____ ~1.52m

Plant

Size: 0.18 ha { 2% }
coverage ratio

Hydrelio®

Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Plate



GRID INJECTION

402

PV MODULES

Main features

- 375W
- 72-cell
- JA SOLAR

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in USA)



Construction & Procurement:
 - Anchoring system supply
 - Installation training



Financing



O&M

Reservoir

Type _____ Water storage
 Size _____ 7.5ha
 Water _____ Fresh
 Maximum depth _____ ~3.51m
 Level variation _____ ~2.68m

Plant

Size: 0.15 ha {2%}
coverage ratio

Hydrelio®

Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Plate



GRID INJECTION

360
PV MODULES

Main features

- 375W
- 72-cell
- JA SOLAR

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
 - Floating array design
 - Anchoring system design



Hydrelio® supply
 (made in USA)



Construction & Procurement:
 - Anchoring system supply
 - Installation training



Financing



O&M

Reservoir

Type _____ Water treatment

Size _____ 1.27ha

Water _____ Fresh

Maximum depth _____ ~3m

Level variation _____ ~1m

Plant

Size: 0.75 ha

{59%}
coverage ratio

Hydrelío®

Technology _____ Hydrelío® Classic

Configuration _____ 1-in-a-row

Anchoring system _____ Bank: Plate



SELF CONSUMPTION
(PARTIAL)

2 437
PV MODULES

Main features

- 395W
- 72-cell
- Znshinesolar

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in USA)



Construction & Procurement:
- Anchoring system supply
- Installation training



Financing



O&M



Reservoir

- Type _____ Water treatment
- Size _____ 19.66ha
- Water _____ Brackish
- Maximum depth _____ ~4.1m
- Level variation _____ ~0.9m

Plant

Size: 4.05 ha

{21%}
coverage ratio

Hydrelío®

- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Hybrid:
Percussive driven earth anchors

Bank anchoring and
parabolic mooring line
installed



SELF CONSUMPTION (FULL)

3 792
PV MODULES

Main features

- 345W •
- 72-cell •
- CSUN •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelío® supply
(made in USA)



Construction & Procurement



Financing



O&M

Reservoir

- Type _____ Water storage
- Size _____ 9.21ha
- Water _____ Fresh
- Maximum depth _____ 39.3m
- Level variation _____ 19.32m

Plant

- Size: 0,57ha {6%}
coverage ratio
- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom:
Plate anchors



SELF CONSUMPTION (FULL)

646
PV MODULES

Main features

- 385W •
- 72-cell •
- ZNShine Solar •

SCOPE OF RESPONSIBILITY

Project Development

Project Engineering:
- Floating array design
- Anchoring system design

Hydrelío® supply
(made in USA)

Construction & Procurement

Financing

O&M

Reservoir

Type _____ Irrigation
 Size _____ 10.15ha
 Water _____ Fresh
 Maximum depth _____ 8m
 Level variation _____ 8m

Plant

Size: 2.16ha

{21%}
coverage ratio

Hydrelio®

Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bank:
 Plate anchors



SELF CONSUMPTION (FULL)

2 592
PV MODULES

Main features

- 380W
- 72-cell
- REC Solar

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in USA)



Construction & Procurement



Financing



O&M

HEALDSBURG WTP 4 780 kWp

CALIFORNIA, USA

Q1 2021

Reservoir

- Type _____ Water treatment
- Size _____ 15.30ha
- Water _____ Fresh
- Maximum depth _____ 10m
- Level variation _____ 10m

Plant

- Size: 8ha **{52%}**
coverage ratio
- Hydrelio®** Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bank:
Plate anchors

2 ponds plant



GRID INJECTION

11 660
PV MODULES

Main features

- 410W •
- 72-cell •
- ET Solar •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in USA)



Construction & Procurement



Financing



O&M

Reservoir

Type _____ Hydroelectricity
 Size _____ 421 400ha
 Water _____ Fresh
 Maximum depth _____ ~29.3m
 Level variation _____ ~13m

Plant

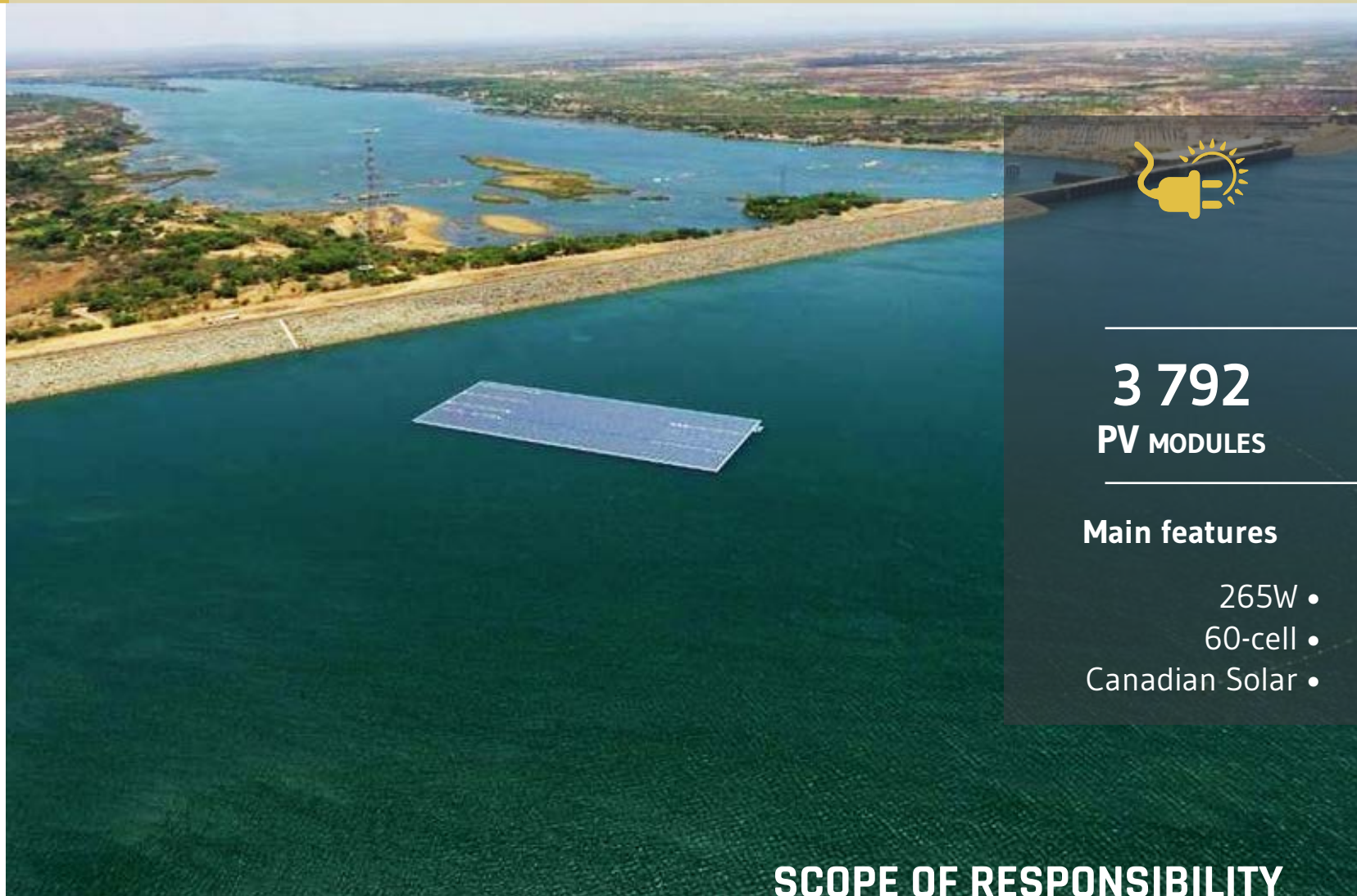
Size: 1.09 ha **{ >0.01% }**
 coverage ratio

Hydrelio®
 Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Deadweight

Equivalent in households



590




3 792
PV MODULES

Main features


- 265W
- 60-cell
- Canadian Solar

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**

Reservoir

Type _____ Quarry and mining
Size _____ 140ha
Water _____ Polluted
Maximum depth _____ ~30m
Level variation _____ ~20m

Plant

Size: 0.11 ha {0.01%}
coverage ratio

Hydrelio®
Technology _____ Hydrelio® Classic
Configuration _____ 1-in-a-row
Anchoring system _____ Bank:
Deadweight

Equivalent in households



70

Avoided emissions



58 tons



SELF CONSUMPTION (FULL)

256
PV MODULES

Main features

- 330W
- 72-cell
- JINKO

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in USA)



Construction & Procurement



Financing



O&M

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

40+
MWp



Achieved Projects

45
MWp



On-going Projects

50
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



LEIMERSHEIM 1 500 kWp

RHINELAND-PALATINATE, GERMANY

Q4 2020

Reservoir

- Type _____ Quarry and mining
- Size _____ 15.5ha
- Water _____ Fresh
- Maximum depth _____ ~20m
- Level variation _____ ~1m

Plant

Size: 1.3 ha

{ 8% }
coverage ratio

Hydrelio®

- Technology _____ Hydrelio® aiR
- Configuration _____ 4-in-a-row
- Anchoring system _____ Bottom: Deadweight

Equivalent in households

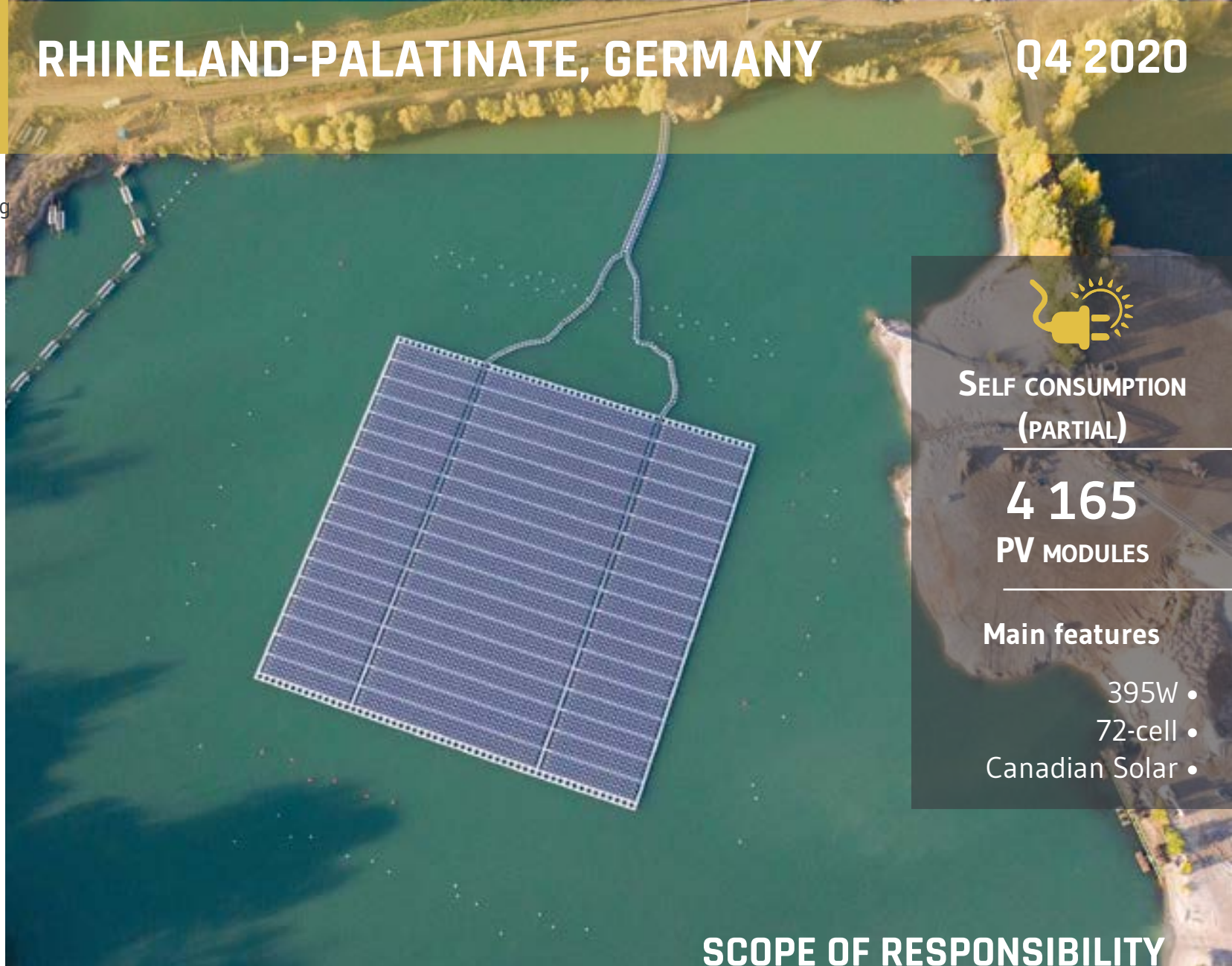


526

Avoided emissions



548 tons



SELF CONSUMPTION
(PARTIAL)

4 165
PV MODULES

Main features

- 395W
- 72-cell
- Canadian Solar

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement:
- Mooring line supply
- Anchoring consulting
- Mooring line adjustment
- Installation training



Financing



O&M

Reservoir

Type _____ Quarry and mining
 Size _____ 39.95ha
 Water _____ Fresh
 Maximum depth _____ ~58.8m
 Level variation _____ ~2m

Plant

Size: 0.78 ha { 2% }
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Hybrid: Parabolic

Equivalent in households



266

Avoided emissions



280 tons

Bank anchoring and parabolic mooring line installed



SELF CONSUMPTION (FULL)

2 304
PV MODULES

Main features

- 325W •
- 72-cell •
- SUNTECH •

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

Reservoir

- Type _____ Hydroelectricity
- Size _____ 2,212ha
- Water _____ Fresh
- Maximum depth _____ ~90m
- Level variation _____ ~30m

Plant

Size: 0.26ha {0.01%}
coverage ratio

- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bottom: Screw

Equivalent in households



100

Avoided emissions



111 tons

World's 1st plant mixing hydroelectricity and solar energy
Anchored at 60m with 30m of variation



GRID INJECTION

840
PV MODULES

Main features

- 260 W •
- 60-cell •
- REC •

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

Reservoir

Type _____ Irrigation
Size _____ 7ha
Water _____ Fresh
Maximum depth _____ ~5m
Level variation _____ ~5m

Plant

Hydrelio®
Technology _____ Hydrelio® aiR
Configuration _____ 4-in-a-row
Anchoring system _____ Bank:
Deadweight

Size: 0.51 ha

{7%}
coverage ratio



GRID INJECTION

1 392
PV MODULES

Main features

- 375W •
- 72-cell •
- JINKO •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M

AZALEALAAN 1 845 kWp

GELDERLAND, NETHERLANDS

Q2 2018



Reservoir

- Type _____ Irrigation
- Size _____ 3.34ha
- Water _____ Fresh
- Maximum depth _____ ~15m
- Level variation _____ ~2m

Plant

- Size: 1.6 ha { 47% }
coverage ratio
- Technology _____ Hydrelío® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bank: Screw

Equivalent in households



615



GRID INJECTION


6 150
PV MODULES

Main features


- 300W
- 60-cell
- Hanwha

SCOPE OF RESPONSIBILITY

 Project Development

 Project Engineering:
- Floating array design
- Anchoring system design

 Hydrelío® supply
(made in France)

 Construction & Procurement:
- Anchoring system supply
- Anchoring installation

 Financing

 O&M

HESBAYE FROST 998 kWp

WALLONIA, BELGIUM

Q4 2017

Reservoir

- Type _____ Water storage
- Size _____ 2.96ha
- Water _____ Fresh
- Maximum depth _____ ~4.5m
- Level variation _____ ~3m

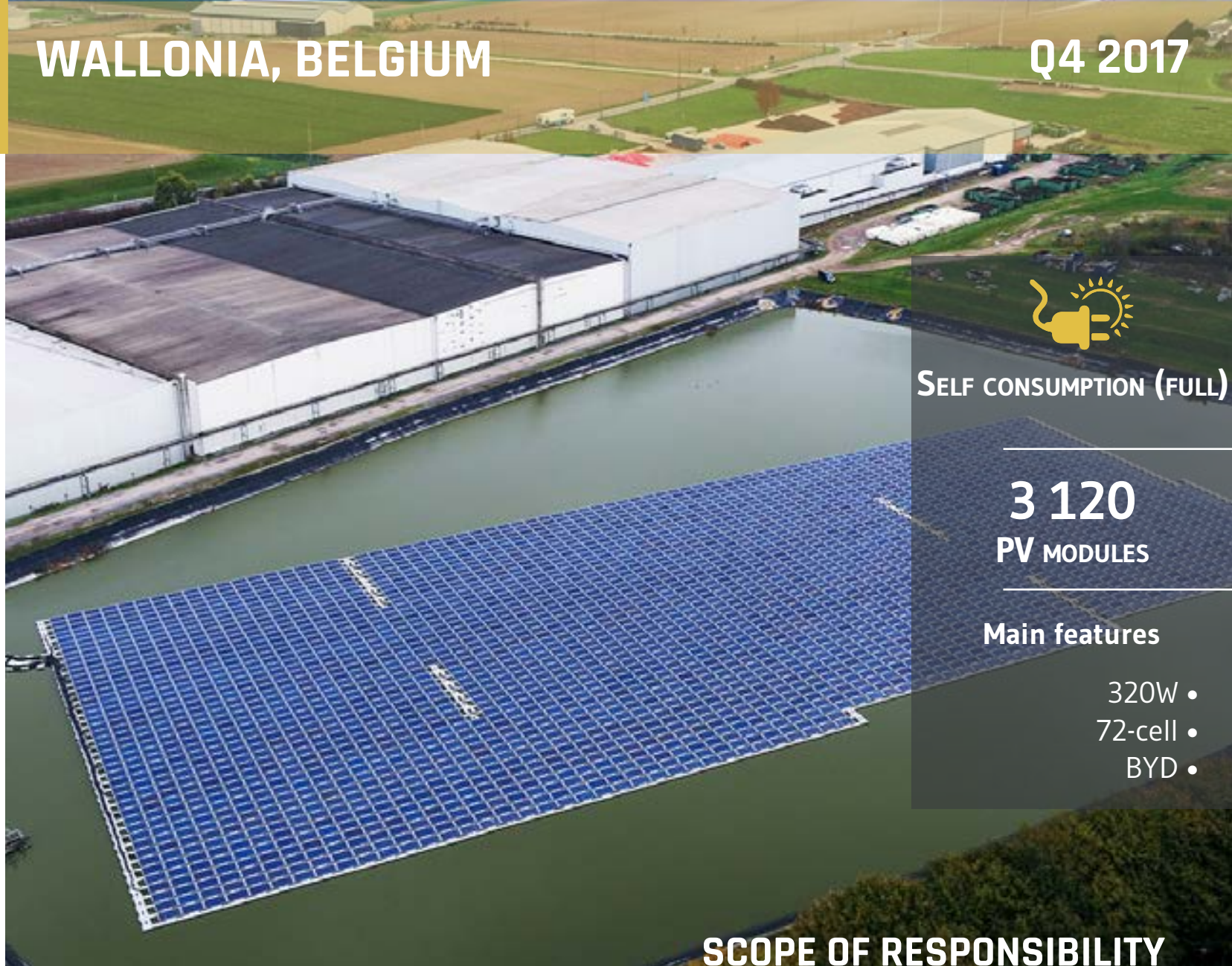
Size: 1.03 ha

{ 35% }
coverage ratio

Plant

Hydrelio®

- Technology _____ Hydrelio® Classic
- Configuration _____ 1-in-a-row
- Anchoring system _____ Bank: Screw



SELF CONSUMPTION (FULL)

3 120
PV MODULES

Main features

- 320W •
- 72-cell •
- BYD •

SCOPE OF RESPONSIBILITY



Project Development



Project Engineering:
- Floating array design
- Anchoring system design



Hydrelio® supply
(made in France)



Construction & Procurement



Financing



O&M


Reservoir


Type _____ Water treatment
 Size _____ 128ha
 Water _____ Drinking
 Maximum depth _____ ~18.4m
 Level variation _____ ~18.4m

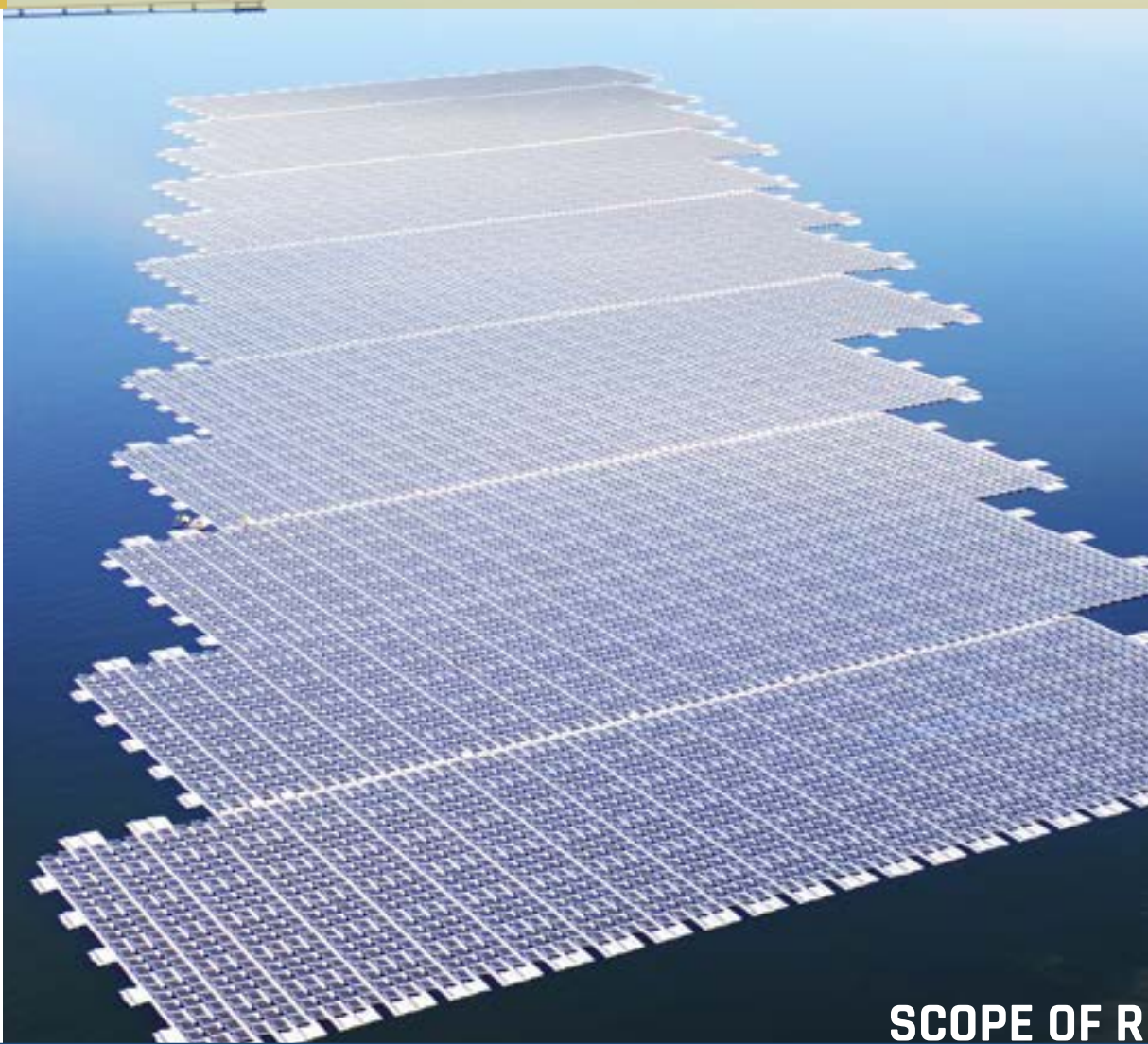
Plant

Size: 5.95 ha { 5% }
coverage ratio

Hydrelio® Technology _____ Hydrelio® Classic
 Configuration _____ 1-in-a-row
 Anchoring system _____ Bottom: Deadweight

Equivalent in households

 1 700

Avoided emissions

 2 950 tons



GRID INJECTION

23 046
PV MODULES

Main features

- 275W
- 60-cell
- SUNTECH

SCOPE OF RESPONSIBILITY





Ciel & Terre