

Introduction

Hanwha Energy USA Holdings Corporation ("Hanwha Energy USA"), which was recently renamed from 174 Power Global, is a U.S. based solar project development company arm of Hanwha Group, a Fortune Global 500 firm and the 7th largest conglomerate in South Korea with primary businesses in the chemical, aerospace, mechatronics, solar energy and finance sectors.

The Company supplies the entire photovoltaic value chain, from cell production to crystalline solar modules to turnkey solar power stations. While Hanwha Energy USA is an independent development business, it has access to all the resources, expertise and experience of Hanwha Group.

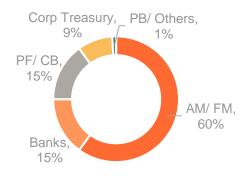
Green Bond Key Figures

| Issuer | Hanwha Energy USA Holdings Corporation | | | | |
|-----------------|--|--|--|--|--|
| Guarantor | Korea Development Bank | | | | |
| Issue Rating | Aa2 (Moody's) | | | | |
| Issue Date | 30 July, 2019 | | | | |
| Format | Guaranteed Senior Unsecured Green Bond | | | | |
| Amount Issued | USD 300 million | | | | |
| Tenor | 3-year | | | | |
| Coupon | 2.375% | | | | |
| Use of Proceeds | Under Hanwha Energy USA's Green Bond Framework | | | | |
| ISIN | 144A: US41135WAA99 Reg S: USU3821WAA54 | | | | |

Allocation Distribution by Geography

EMEA, 4% Asia, 47%

Allocation Distribution by Investor Type

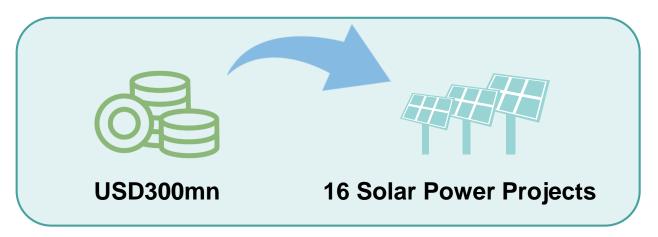




Key Highlights

Allocation Overview

Total proceeds of USD300mn from Hanwha Energy USA's KDB-Guaranteed Senior Unsecured Green Bond ("Hanwha Green Bond") have been fully allocated to 16 solar power projects as of July 31, 2020.



Environmental Impact Overview*

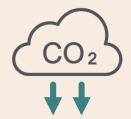


Expected to construct:

3.454 megawatts in renewable energy capacity

267,020 metric tons of CO_2 per year

Expected to reduce:





Expected to generate:

renewable energy per year

^{*}The expected annual CO2 emission reduction and expected annual renewable energy production are based on prorated share of the overall impact by Hanwha Green Bond; renewable energy capacity is project basis



Impact Reporting

| Solar Power Projects | Region | Energy Installed Capacity | Project Total | | Hanwha Green Bond's Share | |
|-------------------------|--------|---------------------------------|-------------------------|---------------------------------|------------------------------|---------------------------------|
| | | | Exp. Energy Produced | Exp. CO ₂ Avoided | Exp. Energy Produced | Exp. CO ₂ Avoided |
| | | MWdc | Mwh/year | tCO ₂ /year | Mwh/year | tCO ₂ /year |
| Laguna | Mexico | 126 | 230,870 | 103,891 | 74 | 33 |
| Imeson | FL, US | 9 | 16,556 | 6,921 | 600 | 251 |
| Oberon 1A | TX, US | 194 | 356,147 | 148,869 | 267,369 | 111,760 |
| Oberon 1B | TX, US | 37 | 68,617 | 28,682 | 50,621 | 21,160 |
| Project A* | TX, US | 100 | 183,960 | 76,895 | 2,242 | 937 |
| Project B* | OR, US | 68 | 125,093 | 52,289 | 5,541 | 2,316 |
| Project C* | NV, US | 164 | 301,694 | 126,108 | 490 | 205 |
| Project D* | TX, US | 242 | 445,183 | 186,087 | 1,160 | 485 |
| Project E* | CO, US | 183 | 336,647 | 140,718 | 363 | 152 |
| Project F* | AZ, US | 1,200 | 2,207,520 | 922,743 | 290,458 | 121,411 |
| Project G* | VA, US | 79 | 145,328 | 60,747 | 500 | 209 |
| Project H* | VA, US | 79 | 145,328 | 60,747 | 894 | 374 |
| Project I* | OR, US | 63 | 115,895 | 48,444 | 164 | 68 |
| Project J* | UT, US | 295 | 542,682 | 226,841 | 405 | 169 |
| Project K* | CA, US | 532 | 978,667 | 409,083 | 3,091 | 1,292 |
| Project L* | NV, US | 84 | 154,526 | 64,592 | 14,823 | 6,196 |
| | Total | 3,454 | 6,354,714 | 2,663,658 | 638,797 | 267,020 |

^{*}Projects under development

Calculation Methodology

The calculation approach as indicated in "EIB Methodology for the Assessment of Project GHG Emissions and Emission Variations Version 11.1" dated July 2020 was used to compute expected CO₂ emissions avoided. Country-specific combined margins for intermittent electricity generation were used as relevant baselines.



Framework Overview



Use of Proceeds The financing and/or investments in renewable energy:

- Development, construction, installation, maintenance, and the procurement of parts of solar energy production units
- Development, construction and maintenance of dedicated transmission and distribution networks and the supporting infrastructures such as inverters and transformers.





The projects are reviewed by the Investment Committee, which is led by the Business Planning and Strategy team, through a three-step process:



Evaluation and Selection of Projects

- Pre-Deal Request Committee ("Pre-DRC"): evaluate the possibility of project development based on assessment of economic feasibility and environmental impact
- Deal Request Committee ("DRC"): review and approve main contracts
- Global Investment Committee("GIC"): conduct the final reviews

After selection, Business Planning and Strategy team coordinates with the Development Team to continuously monitor whether the project developments remain in line with the Framework



Management of Proceeds

A ledger is established to record the allocation of proceeds. The ledger contains the following information:

- Green Bonds details: pricing date, maturity date, principal amount of proceeds, coupon, ISIN number, etc.
- Allocation of Proceeds: list of eligible green projects, amount allocated and unallocated proceeds, total project cost, etc

Any proceeds temporarily unallocated are placed in short-term liquid money instruments such as cash and market securities according to the internal investment guidelines.



Reporting

On an annual basis until full allocation of proceeds and on a timely basis in case of material changes, Hanwha Energy USA will provide a dedicated green bond report with allocation and impact reporting

Assurance obtained from Sustainalytics on the Green Bond Framework



Sustainalytics is of the opinion that the Hanwha Energy USA Green Bond Framework is credible and impactful and aligns with the four core components of the Green Bond Principles 2018.



Featured Projects



Oberon 1A Solar Power Project

Location: Texas, USA

Capacity: 194MWdc

Project Site Area: ~514 hectare

Commercial Operation Date: Jun 2020

Project Value: USD 206mn



Total allocated amount



GWh/year

Project expected energy production



148,869 tCO²/year

Project expected total CO2 emissions avoided



Laguna Solar Power Project

Location: Coahuila, MX

Capacity: 126MWdc

Project Site Area: 229 hectare

Commercial Operation Date: 2019

Project Value: USD 117mn



Total allocated amount



GWh/year

Project expected energy production



103,891 tCO²/year

Project expected total CO2 emissions avoided



Hanwha Group's Commitment to Clean Energy

As the first in Korea, Hanwha Group began implementing "ECO-2000" program, the grouplevel environment & safety activities, in 1991. In 2000, Hanwha Group announced "ECO-YHES," as the group-level environment, safety and health policy, which now serves as an overarching value pursued by the Hanwha Group to fulfill its social responsibilities and to achieve sustainable growth.



Happy Sunshine

Hanwha Group has implemented the "Happy Sunshine" campaign across the nation every year since 2011. Through Happy Sunshine, Hanwha has donated a total of 1,779KW solar power generation systems to 254 welfare centers in South Korea to help them save utility costs.

Solar Forest

Hanwha Solar Forest is an innovative campaign through which smartphone users are able to plant virtual trees through their mobile devices and in return. Hanwha Group donated an 80kWh solar PV generation facility to the Baijitan National Nature Reserve in Ningxia, China a regional partner of the UNCCD to create a 100% sustainable solar-powered plantation.





Eco-Friendly Aquarium

Hanwha Group has opened Hanwha Aqua Planet in Yeosu in South Korea that is equipped with a rooftop solar power system that supplies clean and sustainable energy to the facility. Open year-round, the eco-friendly aquarium has raised public awareness on the positive impact of solar energy.