" Green Bonds – Made by KfW Inaugural Impact Report: Delivering Transparency >>> KfW is one of the largest providers of green financings and among the largest issuers of bonds in international capital markets. We believe sustainability should be more relevant in capital markets. "Green Bonds – Made by KfW" are characterised by a high standard of quality including the publication of annual impact reports such as this one. Transparency is a key element in our green bond approach.

The Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW), Germany, evaluates the environmental and social impacts of projects committed under KfW's "Renewable Energies - Standard" programme and recently published the evaluation results for the years 2013 and 2014. The direct linkage between our green bonds and this loan programme enables us to quantify the climate protection effects of our green bonds.



Dr Frank Czichowski Treasurer of KfW Group

This report marks our first impact report and relates to our inaugural green bonds issued in 2014. It ensures transparency regarding the positive environmental and social effects of and allocation of proceeds from all KfW green bonds issued in the respective year.

Frankfurt, April 2016

Key Facts

Impact of **EUR 1 million investment** in "Green Bonds – Made by KfW": **1,271 tons** of GHG emission reductions (CO₂-equivalents) per annum^{*}

Impact of "Green Bonds – Made by KfW" issuances 2014

	€ ^{1.5bn Green Bond} 2014/2019	1.5bn Green Bond 2014/2019
of GHG emissions reductions (CO ₂ -equivalents) per annum*	1,894,484 tons	1,506,807 tons
of savings on energy imports to Germany and fossil fuel costs per annum*	100,075,824 EUR	79,596,892 EUR
jobs created and/or secured (person years)*	37,585 jobs	29,894 jobs
of savings in external costs per annum*	193,140,989 EUR	153,617,746 EUR

* Values are based on programme impacts in 2014 in Germany – with numbers evaluated by ZSW – and internal calculations; impact for projects outside Germany might be different.

"Green Bonds - Made by KfW"

"Green Bonds – Made by KfW" offer investors the opportunity to specifically invest in the promotion of environmental and climate protection while combining this with the safety and liquidity of an investment in KfW bonds.

With its green bond concept – and especially with the high standards regarding transparency and impact measurement – KfW intends to grow the young market segment out of the niche and to be a role model as green bond issuer.

KfW's green bond approach foresees that the net proceeds from "Green Bonds – Made by KfW" are exclusively dedicated to finance projects under its "Renewable Energies – Standard" programme. This loan programme promotes the power generation from wind, water, photovoltaics, biomass and other renewable energy sources. Immediately following the inflow of funds from the sale of green bonds, an amount equal to the net proceeds in euros is allocated to an internal account designated for green bond issuances. The balance of this account will completely be reduced by amounts matching requests for disbursements since the start of the calendar year of issuance under the mentioned loan programme. Any green bond will be regarded as fully allocated when the cumulated disbursement requests from the promotional programme total the net proceeds from the issuance. Proceeds envisaged have to be used within the same calendar year as the issuance, so that KfW expects a full allocation by the end of the year of issuance. The maturity of KfW's green bonds will not exceed prior year's average duration of loan commitments under the "Renewable Energies – Standard" programme. The use of proceeds will be regularly monitored and quarterly reported until full allocation.

KfW's promotional loan programme "Renewable Energies – Standard"

For whom?

- German and non-German companies majority-owned by private individuals
- Companies partly-owned by local authorities, churches or charities
- Self-employed professionals and farmers
- Private individuals and non-profit organizations which supply and sell the energy

For what?

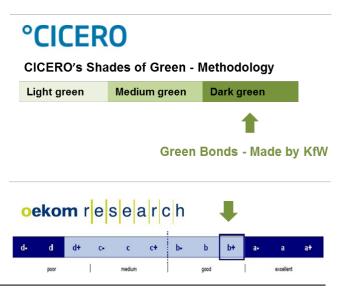
It supports the construction, expansion and acquisition of power plants using renewable energies, like e.g. wind energy, solar energy, hydropower and biogas, that are in line with the requirements from the German law for the development of renewable energies (Erneuerbare-Energien-Gesetz – EEG 2014) dated 21 July 2014.

What kind of promotional funds are available?

Up to 100% of the investment costs are eligible for financing from KfW with a cap at EUR 50 million.

Green bonds with external evaluation of environmental and social impact as well as independent third party opinion

Given the rapid growth of the green bond market, investors are facing a high number of different green bond concepts and issuers. Independent opinions on KfW's green bonds are essential to increase transparency and reliance. Besides the evaluated environmental and social impact of the underlying loan programme by the German non-profit organization ZSW, the independent, experienced Center for International Climate and Environmental Research Oslo (CICERO) provides a 2nd opinion on KfW's green bond framework. This evaluation qualifies its green eligibility by classifying "Green Bonds - Made by KfW" as "dark green" – it is the best grade achievable and reflects the strong climate and environmental ambition of the bonds. Oekom research, a leading ESG rating agency, rated "Green Bonds – Made by KfW" as b+ ("good") which is the highest granted sustainability bond rating so far.



Green Bond Issuances

KfW started issuing "Green Bonds – Made by KfW" in 2014 and thereby promotes the green bond market as an experienced issuer. The entrance of KfW into this segment evoked positive reactions in the market.

KfW entered successfully the green bond market as an issuer in 2014. Both green bonds launched in the respective year evoked positive responses in the market segment and can be characterised as landmark transactions.

KfW's first EUR Green Bond 0.375% 2014-2019 with a size of EUR 1.5 billion was the largest green bond ever issued in the primary markets at that time. Together with its second transaction under this programme, USD Green Bond 1.750% 2014-2019, KfW received net proceeds totaling EUR 2.7 billion. These two issued securities made KfW one of the largest green bond issuers in 2014.

Net Proceeds EUR 2.7 billion

Both transactions received awards by internationally renowned magazines. The EUR green bond was named "SRI Bond of the year 2014" by the International Financing Review, the USD bond as "SSA SRI Bond of the year 2014" by GlobalCapital. KfW's liquid green bonds in EUR and USD received a favorable response by a broad investor base. Orderbooks were oversubscribed and included orders from many new investors with a green mandate.

KfW was largest green bond issuer in 2014 (in terms of principal amount issued)

KfW's green bonds in 2014 were launched at a similar spread compared to its traditional bonds. Therefore, investors could actively contribute to climate protection without any disadvantage regarding returns. In this context, KfW emphasizes that, in general, all KfW bonds are an adequate product for SRI investors, because funds are used for KfW's overall sustainable promotional business. In addition, the unique feature of "Green Bonds – Made by KfW" is that they allow investors to track the environmental impact and to learn about the amount of greenhouse gas emission saved with their investment.

Green Bonds Made by KfW	EUR Green Bond 0.375% 2014-2019	USD Green Bond 1.750% 2014-2019	
Guarantor	Federal Republic of Germany		
Rating	Aaa/AAA/AAA (Moody's/Scope Ratings/Standard&Poor's)		
ISIN	XS1087815483	US500769GF56	
Nominal value	EUR 1,500,000,000	USD 1,500,000,000	
Coupon	0.375% p.a., annually in arrears	1.750% p.a., semi-annually in arrears	
Maturity date	22 July 2019	15 October 2019	
Format	EMTN	Global/SEC-registered	
Distribution by investor type	8% 14% 14% 14% 17% Banks (17%) Central Banks (14%) Ins. & Pension Funds (11%) Corporations (8%)	5% 12% 21% 21% 25% 5% 5% 5% 5% 5% 5% 5% 5% 5%	
Geographical distribution	Europe (76%), Asia (19%), Other (5%)	America (60%), Asia (27%), Europe (13%)	
Award-winning transactions	SRI Bond of the Year 2014 by International Finance Review	SSA SRI Bond of the Year 2014 by GlobalCapital	

Management of Proceeds

Allocation of the net proceeds from KfW's green bond issuances and distribution of the requests for disbursements under the "Renewable Energies – Standard" programme in 2014.

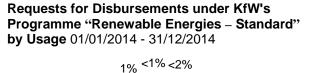
In 2014, KfW received requests for loan disbursements under its "Renewable Energies - Standard" programme in an amount of EUR 4.11 billion. In the same period, KfW received net proceeds totaling EUR 2.68 billion from its green bond issuances. For purposes of this report, the euro equivalent of proceeds in foreign currency is calculated based on the ECB's exchange rate on the pricing date of the respective issuance.

Requests for Disbursements under KfW's Programme "Renewable Energies - Standard" 01/01/2014 - 31/12/2014

				bursements 4.11bn		
	Green Bonds – Made by KfW					
	EUR 2.68bn					
0	1	2	3	4	5	(in EUR bn)

80% of all requests for disbursements were related to projects for the use of wind energy, and 17% were linked to projects using solar energy. The remainder of the requests for disbursements was attributable to biogas/biomass systems, hydropower and other projects.





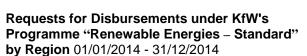
80%

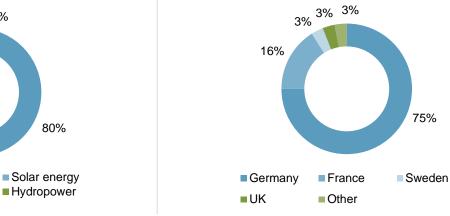
17%

Wind energy

Other

Biogas/Biomass





Wind farm Bendorf-Oersdorf: Project example financed under the "Renewable Energies - Standard" programme

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Location	Germany, Schleswig-Holstein, district Rendsburg-Eckernförde
Completion	2014
Calculated annual pro- duction capacity	approx. 39mn KW/h electricity
Supply area	11,000 households
Estimated GHG reduc- tions	32,379 tons GHG p.a. (CO ₂ -equivalents)
Total project costs	EUR 27.9mn (thereof KfW funds: EUR 21.0mn)

Evaluation of Social and Environmental Impact

Assessment of the impact of KfW's programme "Renewable Energies - Standard".

The independent non-profit research institute Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW) evaluated the social and environmental impact of projects financed under KfW's programme "Renewable Energies – Standard" based on new commitments in 2014.

In 2014, the volume of commitments under KfW's loan programme "Renewable Energies – Standard" totalled almost EUR 3.8 billion and triggered investments of approx. EUR 5.9 billion – representing an average share of KfW financing amounting to 64%. Thereof, EUR 1.0 billion and approx. EUR 1.9 billion, respectively, were attributable to renewable energy plants built outside Germany. The average investment per commitment amounted to EUR 1.2 million.

Commitments under KfW's programme "Renewable Energies – Standard" in 2014		
Number of loan commitments	4,805	
Volume of loan commitments (EUR mn)	3,786	
Thereof outside Germany (EUR mn)	1,001	
Investments financed (EUR mn)	5,909	
Thereof outside Germany (EUR mn)	1,886	
Average loan volume per commitment (EUR)	787,910	
Average investment financed per commitment (EUR)	1,229,780	
Average share of financing	64%	

In 2014, KfW's programme "Renewable Energies – Standard" co-financed plants with a total electrical power of 3.7 GW_{el}, of which 67% were attributable to plants built in Germany and 33% to plants built outside Germany. The table below provides a detailed picture of the installed electrical power by plant type.

Installed electrical power supported in 2014		MW _{el}	
Plant type	Biogas	5.5	
	Solid biomass	0.1	
	Photovoltaic energy	570.3	
	Hydropower	11.0	
	Wind energy onshore	3,082.5	
	Total	3,669.4	
Annual electricity production		TWh	
		7.0	

Berlin Capital of the Federal Republic of Germany Population: 3.44 million Households: 1.96 million Annual energy consumption:

approx. 6.1 TWh

The estimated annual electricity production of the supported plants amounts to 7.0 TWh over the twenty-yearlifetime of the plants. This is more than the annual electricity needs of all 3.44 million residents of the German federal capital Berlin.

The projects co-financed under KfW's "Renewable Energies – Standard" programme in 2014 had the following social and environmental impacts:

	Unit	Germany
Annual savings in greenhouse gas emission due to plants supported	million tons CO ₂ -equivalents p.a.	3.54
Annual savings in energy imports	EUR million p.a.	187
Employment effects	person years	70,230
Annual savings in external costs	EUR million p.a.	360.9

Evaluation of Social and Environmental Impact

Impact of EUR 1 million investment in "Green Bonds - Made by KfW".

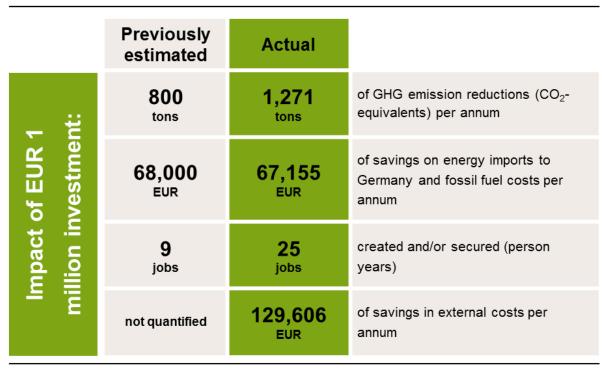
Based on the evaluated impact of the underlying programme "Renewable Energies – Standard", KfW calculates the impact of its green bonds. The impact is quantified for the supported plants built in Germany and measured considering the total investments financed (in 2014: EUR 4.0 billion).

Based on the evaluated figures by ZSW, an investment of EUR 1 million in KfW's green bonds issued in 2014 leads to 1,271 tons of GHG emission reductions per annum (CO₂-equivalents). This is more than the previously estimated annual GHG emission reductions of 800 tons. At the same time, decreased imports of hard coal, natural gas and mineral oil led to annual savings in energy costs

Green Bonds - Made by KfW

for imported fuel of EUR 67,155 per EUR 1 million invested in 2014. Despite the decline of energy costs, this corresponds quite accurately to the EUR 68,000 per year that had been previously estimated. Savings not only result in decreasing energy imports and fossil fuel costs but also in a decrease of emission-linked damages. These savings in external costs amount to EUR 129,606 per year for every EUR 1 million investment in KfW's green bonds in 2014.

Moreover, a green bond investment of EUR 1 million in 2014 led to the creation and/or retention of 25 person years over the lifetime of the supported plants – more than twice as much as previously estimated.



Values are based on programme impacts in 2014 in Germany – with numbers evaluated by ZSW – and internal calculations; impact for projects outside Germany might be different.

The impact described in this report is derived from the evaluation made by ZSW. The full evaluation report¹ (in German only) as well as an English abstract² are available on KfW's website. ZSW assessed reductions in emission of greenhouse gases and air pollutants, external costs, fossil fuel consumption and associated fossil fuel imports resulting from plants built in Germany that were co-financed through KfW's loan programme "Renewable Energies – Standard". Furthermore, impacts on employment in Germany were quantified. In addition, for plants built outside Germany greenhouse gas emission avoided were estimated. The calculations are based on standardised substitution factors, which are provided by the German Environment Agency (*Umweltbundesamt*). A detailed description (in German) of calculation approaches and results of all national renewable energy promotional activities of KfW can be found in the full evaluation report.

¹ Bickel, P., Kelm, T., Edler, D.: Evaluierung der inländischen KfW-Programme zur Förderung Erneuerbarer Energien in den Jahren 2013 und 2014. Gutachten im Auftrag der KfW Bankengruppe, Stuttgart, Dezember 2015. <u>https://www.kfw.de/PDF/Download-Center/Konzernthemen/Research/PDF-Dokumente-alle-Evaluationen/Evaluierung-EE-2013-und-2014.pdf</u> (only available in German)
² Bickel, P., Kelm, T.: Assessment of environmental and social impacts of the "KfW Renewable Energies Programme – Standard" for the year 2014. Evaluation

² Bickel, P., Kelm, T.: Assessment of environmental and social impacts of the "KfW Renewable Energies Programme – Standard" for the year 2014. Evaluation commissioned by KfW Group, Stuttgart, February 2016. <u>https://www.kfw.de/PDF/Download-Center/Konzernthemen/Research/PDF-Dokumente-alle-Evaluationen/Evaluation_Summary_KfW_RE-Standard_2014.pdf</u>

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Frankfurt, April 2016