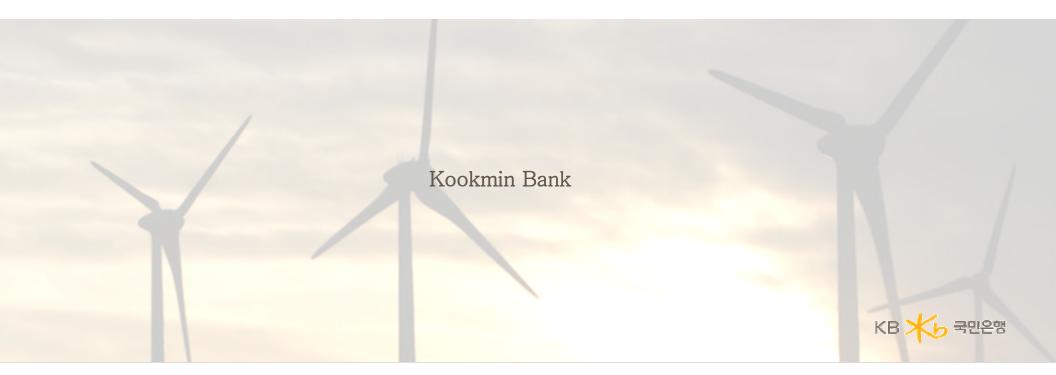
Trend and Prospect of renewable energy Project Finances and Funds in Korea

2010.6



1. Renewable Energy Funds and P/Fs in Korea

- A series of environmental agreements, including Kyoto protocol, Marrakesh Accords, and Bali Roadmap, shows impending materialization of CO₂ emission limitation.
 - Leading to a higher interest on renewal energy, such as wind, solar, and tidal power plant business.

< List of Renewable Energy PFs in Korea>

Year	Financial Institution	Project		
2005	КВ	Korea's 1st Solar power plant P/F Closing (KRW 14bn., 1.65MW)		
	КВ	Launched KRW 330bn. Renewable Energy Blind Fund (11 shareholders)		
2007-2008	КВ	Arranged KRW 200bn. in 6 Solar power plant P/F (35.3MW)		
	SC First	Arranged KRW 150bn. in Shinan Solar power plant P/F (24MW)		
	Samsung Life Insurance	Arranged KRW 120bn. in Kimchun Solar power plant P/F (18.4MW)		
2009	КВ	Arranged KRW 59bn. in Cheju Wind power plant P/F (33MW)		

Since 2005, renewable energy P/Fs and funds have been executed focused on solar power plant.

2. Corporate Lending for Green-related Businesses

■ Apart from Project Financings, Corporate loans that were launched to support green growth companies and solar power generators are as follows;

<Corporate Financing Green Product List>

Category	Product	Bank	Note	
	KB Green Growth Loan	КВ	-Outstanding balance of KRW 594.2bn. (as of 2010.5) -Providing special Interest rate discount for the companies which won the green growth industry awards	
Green growth corporate loan products	Green Growth Corporate Loan	IBK	-Green technology corporations and environmentally certified corporations	
	Strategic Special Facility Loan	KDB	-Environment industry and renewable energy corporations -Energy efficiency enhancing corporations	
	Solar Biz Loan	КВ		
Solar power plant loan products	Solar Loan	Hana	-Focused on solar power plants construction	
	Solar Power Loan	Shinhan		

3. Trend & Features of P/Fs in Asia

- Since the crisis of 2008, Project Financing ("P/F") market of Europe and US has shrunken.
 - Asian P/F market in the 1st half of 2009 has also contracted in half to USD20 bn. over the previous year.
- Mean However, it is noteworthy that the market share of power industry, including renewable energy, increased 16.6%p to 46.2%.

<P/Fs by Industry in Asia>

Industry Analysis									
	2009.1.1~2009.6.30			2008.1.1~2008.6.30					
Borrower Industry	Proceeds US\$m	Mkt. Share	No. Issues	Proceeds US\$m	Mkt. Share	No. Issues	Chg. In Mkt. Share		
Power	9,090.1	46.2	16	11,261.1	29.6	21	16.6	A	
Transportation	3,722.4	18.9	18	6,289.0	16.5	31	2.4	A	
Telecommunications	2,841.8	14.4	4	2,378.0	6.2	2	8.2	A	
Petrochemicals	2,088.0	10.6	3	1,000.0	2.6	2	8.0	A	
Industry	741.4	3.8	5	1,804.3	4.7	3	-0.9	∇	
Oil & Gas	545.9	2.8	3	3,022.6	7.9	9	-5.1	∇	
Leisure & Property	498.2	2.5	9	7,911.4	20.8	19	-18.3	∇	
Industry Total	19,527.8	100	59	38,080.9	100	103			

4. Changes in Feed-In-Tariff Program

With the changes in Feed-In-Tariff (FIT) program, standard price has fallen so that financing support for renewable energy industry (especially for solar power generation) has been on a downward trend since 2008.

<Changes in FIT Program>

Category	Note				
Policy Initiation (2002.5)	-Introduced standard price policy for renewable energy power plant -Set 5 year application period for the energy sources - Solar power plant, Wind power plant				
1st Revise (2003.10)	-Extended subsidy supporting period to 15 years for Solar and Wind power plant -Established new capacity restriction (Solar 20MW, Wind 250MW)				
2nd Revise (2004.10)	-Included tidal power plant into the applicable energy sources				
3rd Revise (2006.10)	-Adjusted standard price and applied decreasing rate by the economic evaluation across the sources -Added fuel cell power plant(up to 50MW) into the applicable energy sources -Changed the capacity limitation (Solar 20MW→100MW, Wind 250MW→1,000MW, Fuel Cell 50MW)				
4th Revise (2008.5.14)	-Extended application period of standard price (unified into a 15 year period, except solar power) -Expanded capacity restriction (Solar 100MW→500MW) -Changed Solar FIT standard price (KRW 677.38/kWh → KRW 561.33¹/kWh)				

Note (1) 15 year case, over 1MW Capacity

5. Major Wind Farm Projects

- **Onshore wind power generation emerging as the major sector among renewable energy sources:**
 - Thanks to its low power generation cost, wind generation is competitive enough even under SMP(System Marginal Price), market price of electricity.

<Major Wind Farms under Feed-In-Tariff(FIT) Program>

Category	Completed	Capacity (kW)	Location	Company
Hankyung	2004.2	6,000		Korea Southern Power
Wind Farm	2007.12	<u>15,000</u>	Cheju Island	Co. Ltd
		total 21,000		
	2004.12	11,550		
Youngduck	2005.2	8,250	Youngduck-Gun Kyungsangbuk-Do	Youngduck Wind Farm
Wind Farm	2005.3	<u>19,800</u>		Co. Ltd
		total 39,600		
	05.12	28,000		
Kangwon	2006.8	20,000		Kangwon Wind Farm
Wind Farm	2006.9	<u>50,000</u>	Pyungchang-Gun, Kangwon-Do	Co. Ltd
		total 98,000		
Yangyang Wind Farm	2006.6	3,000	Inje-Gun, Kangwon-Do	Korea Midland Power Co. Ltd
Samdali Wind Farm	2009.9	33,000	Cheju Island	Hanshin Energy Co. Ltd

6. Prospect for Introduction of RPS

- Renewable Portfolio Standard(RPS)¹ is to be introduced nation-wide in 2012.
 - RPS is currently under testing.
 - < Policy Direction of Support for Power Industry >

2002	2006~2008	2009~2011	2012	
Feed-In-Tariff(FIT) Initiated	Mainta	ain FIT	FIT to be abolished	
-	RPA ² 1 st period	RPA 2 nd period	RPS to be Introduced	

Note (1) RPS (Renewable Portfolio Standard): a new mandatory policy to charge renewable energy ratio to the electricity production

- (2) RPA (Renewable Portfolio Agreement): an agreement on spontaneous renewable energy supply)
- Financial Institutions are also actively preparing P/F and considering new renewable energy funds.

7. Plan for Wind & Tidal Power Generation Projects

Especially, financial institutions are focusing on onshore/offshore wind power plant and large-scale tidal power plant business.

<Planned Projects in Wind & Tidal Power Plant>

Category	Region	Corporate Sponsor	Capacity	
Wind power	8 cities/county	-Korea Southern Power, Hyundai heavy, KIC	200MW	
	Taebaek	-Korea Southern Power	20MW	
	Jungsun	-East west Power	20MW	
Tidal power	Karorim bay	-Korea Western Power	540MW	
	Inchoen bay	-Korea Hydro & Nuclear Power	1.3GW	

- With technological advances in renewable energy and active government support, Korea's renewable energy P/Fs and Funds are expected to be buoyant.
 - KB Kookmin Bank is planning to expand support for renewable energy projects including the ones linked with carbon credit.