

Country Report (Korea)

2018. 4. 7.

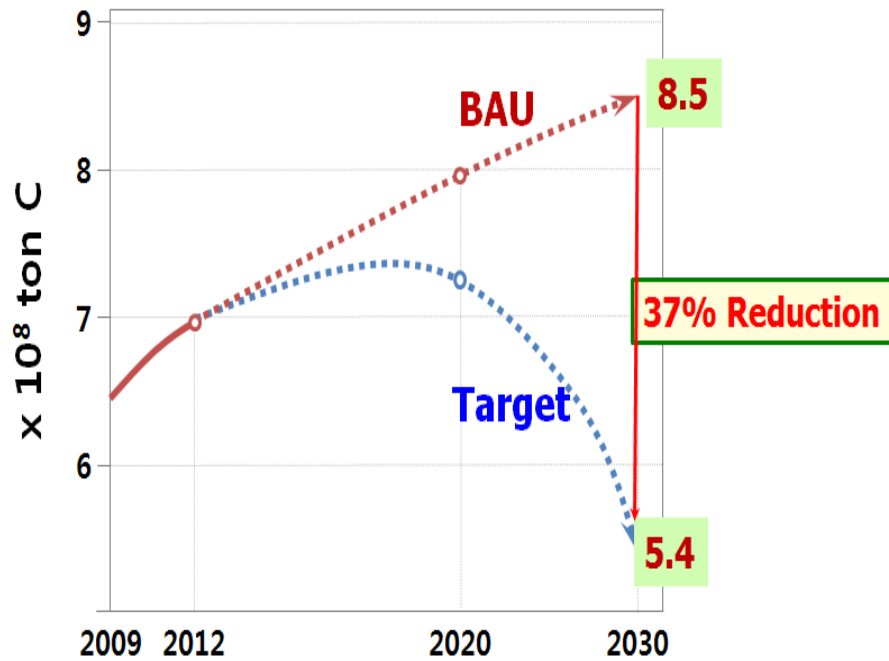
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Presentation Agenda

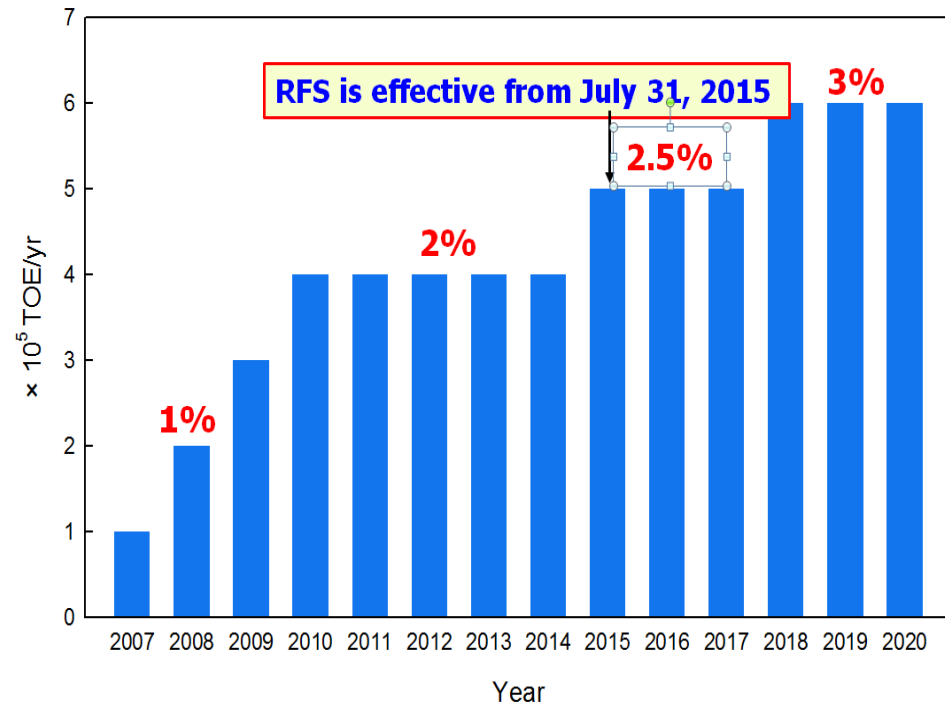
- **Implementation Agenda**
 - Main drivers for biofuel
 - Biofuels policy
 - Market developments
 - Biofuel facilities
 - R&D Information

Main Drivers for Biofuels

Climate Change Mitigation



RFS



Biofuels Policy

Policies for biofuel supply

Types of Policy	Yes/No (Comments)
Mandates	B3, Effective from 2018
R&D funding	Several funding are available
Market for new biofuels	Very difficult
Others	None

Biofuel obligations

Year	Biodiesel, %
2010	2.0
2011	2.0
2012	2.0
2013	2.0
2014	2.0
2015	2.5
2016	2.5
2017	2.5
2018	3.0

Market Developments

Summary of transport fuel consumption (ML)

Year	Gasoline	Diesel fuels	Aviation fuel	Biodiesel	Bioethanol	Market share (%)
2006	9.52 x 10 ³	1.78 x 10 ⁴	3.19 x 10 ³	40	0	0.13
2007	9.93 x 10 ³	1.81 x 10 ⁴	3.31 x 10 ³	100	0	0.32
2008	1.0 x 10 ⁴	1.70 x 10 ⁴	3.17 x 10 ³	200	0	0.66
2009	1.04 x 10 ⁴	1.65 x 10 ⁴	3.33 x 10 ³	300	0	0.99
2010	1.09 x 10 ⁴	1.67 x 10 ⁴	3.57 x 10 ³	400	0	1.28
2011	1.10 x 10 ⁴	1.66 x 10 ⁴	3.60 x 10 ³	400	0	1.28
2012	1.14 x 10 ⁴	1.70 x 10 ⁴	3.82 x 10 ³	400	0	1.24
2013	1.16 x 10 ⁴	1.79 x 10 ⁴	3.86 x 10 ³	400	0	1.19
2014	1.17 x 10 ⁴	1.83 x 10 ⁴	4.07 x 10 ³	400	0	1.17
2015	1.22 x 10 ⁴	1.98 x 10 ⁴	4.35 x 10 ³	500	0	1.38
2016	1.26 x 10 ⁴	2.11 x 10 ⁴	4.65 x 10 ³	500	0	1.30
2017						

Source: KEEI, <http://www.keei.re.kr/main.nsf/index.html>

Biofuel Facilities

Biodiesel Plant	Location	Installed capacity [ML/yr]	Feedstock	Status
M Energy	Pyongtaek	148	Used cooking oil	Mothballed
Danseok Industry	Siheung	113	Vegetable oil, Used cooking oil	In production
	Pyongtaek	180		
Emac Bio	Soonchun	50	Used cooking oil	In production
	Jeongeup	32		
SK Chemical.	Ulsan	227	Palm fatty acid distillate (PFAD)	In production
JC Chemical	Ulsan	120	Used cooking oil	In production
Aekyung Petrochem	Ulsan	200	Used cooking oil	In production
GS Bio	Yeosu	120	Vegetable oil, Used cooking oil	In production
Eco solution	Jeongeup	120	Used cooking oil, tallow	In production
Bioenergy Holdings	Yeoju	60	Used cooking oil, tallow	Mothballed
Total		1,370		

Source: Korea Bioenergy Association (KBEA), 2017.

R&D Information

I. Funding Agency

- Korea energy technology evaluation and planning (KETEP)
- Korea National Science Foundation (KNSF)

II. Major Research Projects

- Advanced Biomass R&D center (2010-2019)
- Project for jet engine tests with bio-jet fuel (2017-2021)

Information Sources

- KBEA, <http://www.kbea.or.kr>
- KEEI, Yearbook of Energy Statics, <http://www.keei.re.kr/main.nsf/index.html>
- <http://www.biomass.re.kr/eng>

Thank You!