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JCOAL (Japan Coal Energy Center)

Panel Discussion

moderator

Takeo KIKKAWA

Professor of Management
Graduate School of Innovation Studies
Tokyo University of Science
kikkawa09@gmail.com

Two Misunderstandings over Coal-Fired Power

- (1) Should not be newly built nor expanded, because of large-quantity CO₂ emission
- ← Grim reality: Major power source in the world as well as in Japan
 - Investment in advanced technology of coal-fired power generation is a social duty
 - Overseas development of Japanese CCT (world's highest level) will substantially reduce CO₂ emission
- = CCT is a "trump card" of countermeasure against global warming
- (2) Technology transfer to overseas, but no plant in Japan
- ← · Japan imports most of coal (the first large-capacity imported coal-fired power plant)
 - Necessity of improving efficiency of coal-fired power is high (economical factor)
 - Innovation of CCT occurs in Japan
- = Japan is an R&D center of coal-fired power all over the world

New Technical Issues of Coal-Fired Power

- In Japan's "Basic Energy Plan," coal-fired power is regarded as a **base-load electricity source** together with nuclear power generation
 - · Expansion of mega solar power generation by FIT
 - · When the demand declines, the output of the base-load electricity source should also be suppressed
 - · Necessity to operate coal-fired power as a **buffer electricity source**
 - · How to achieve compatibility with economic efficiency is **a new issue**

Point of Issues for Panel Discussion

(1) What's going on in advanced technology of coal-fired power generation

Most advanced technology and future direction

(2) Issues for spreading advanced technology of coal-fired power generation

Technical issues

Social (institutional) issues

Measures for achieving the goal