Study on Combination of Feed-in Tariff and Renewable Portfolio Standard for Renewable Electricity Diffusion

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1. INTRODUCTION AND OBJECTIVE OF STUDY

recently introduced a combination of FIT and RPS. The purpose of this study is to clarify efficiency and approach. However, some countries like Italy, the USA (California), United Kingdom and South Korea have support schemes for Feed-in Tariff (FIT) and Renewable Portfolio Standard (RPS) usually take an either-or resources, the diffusion of renewable electricity requires strong policy support. Discussions of the two main market has experienced so rapid growth. However because of the high cost compared to conventional energy effectiveness of the combination of FIT and RPS Today, while concerns about climate change, energy security and recession are deepening renewable energy

2. ANALYSIS AND OUTCOMES

and foster the transition of renewable energy technologies towards mass-market integration. In the presence of strengths and weaknesses. Policy frameworks which combine different technology-specific support schemes as a types of support systems—quantity-based market regulatory uncertainty about the marginal costs of producing renewable electricity, economic efficiency of the two function of technology maturity would be best suited to successfully implement the key policy design principle contrasting characteristics, but they have mutually complementary features composing a pair of each other's This study conducted a comparative analysis of FIT and RPS. Table-1 shows that the two systems have

instruments and price-based market instruments

will depend on the relative slopes of the marginal benefit and marginal cost curve.

Thus, the combination of RPS and FIT is able to reduce efficiency loss and maximize social marginal benefit.

3. CONCLUSION

If the regulator has perfect information, both instruments have the same economic efficiency. But this assumption is impossible to realize. To reduce efficiency loss and achieve social goals, harmonization of the two systems would be good policy initiatives.

Table-1 Comparative analysis of FIT and RPS

weakness					strength					
policy-dependent	inhibited competition,	difficulty in determining price,	Large financial burden,	difficulty in setting goals,	Easy system management	job creation, energy diversity,	activating local industry,	participation in small size,	Investment risk reduction,	Feed-in Tariff (FIT)
of development	contributes little to the early phases	difficulty in system design,	spreading specific energy,	limited participation,	Adjustable market scale	technology innovation by competition,	price is determined by market,	No subsidies,	Predictable diffusion targets,	Renewable Portfolio Standard (RPS)