

S41-2 Innovative environmental and energy technology strategy for realizing a Low Carbon Society

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To address human induced global warming, it is essential to cut great amount of greenhouse gas emissions from human activities, and to realize a low carbon society as soon as possible. The Government developed a plan for forming of a low carbon society, major policy of which is development and deployment of innovative environmental and energy technologies. Those technologies are contributing to decrease world GHG emissions by 2050. In short and medium term (- 2030), improvement of existing environmental and energy technologies and their deployment are necessary, and then in medium and long term(2030-), a key is development of innovative technologies to decrease GHG. For example, in the energy supply side, there are advanced nuclear reactor, coal and natural gas fire electric power plant with carbon capture and storage, and renewable energy such as solar voltaic cells and wind power generation. In the energy demand side, there are high efficiency automobiles such as electric cars and fuel cell cars, energy saving home appliances and housing energy management system. These technologies would be developed by both the national government and private companies in collaborative manner, and technology transfer would be also supported by the national government.