

## Questions for the 6th Round-Table for Studying Energy Situations ~Global Warming~

### Q1: Renewable energy

⇒ Germany is an “advanced renewable energy country” which introduced an FIT system ahead of Japan and has been promoting shifting of power sources to renewable energy. Japan needs to learn a lot from its experiences towards using renewable energy as the main power sources in the future. From that point of view:

- 1) Regarding the FIT system that was introduced to promote renewable energy, what kind of initiatives have been taken to date and what kind of initiatives may be required in the future to facilitate to be independent from relevant support schemes?
- 2) There is an indication stating that, in Germany, construction of north-south power transmission lines to connect the northern area as the supplier of renewable energy and the southern area as the consumer of electric power is stagnating partly due to objection from local residents. Including development of such north-south power transmission lines, what is your assessment on the current move towards re-establishing power grid associated with the large-scale introduction of renewable energy? In particular, what is your assessment in regard to a remark stating that renewable energy generated in the northern area is transmitted to the southern area via a third country? Taking that into account, what kind of initiatives would be required in the future, do you think, to re-establish power transmission lines?
- 3) Variable renewable energy (solar power, wind power) currently requires, by its nature, thermal power generation to accommodate generation fluctuations. On the other hand, deployment of battery systems may be required in the future, instead of thermal power generation, from the viewpoint of realizing carbon-free society as a total system of renewable energy and backup systems. Regarding that point, what are the initiatives currently in place and what is your future perspective?
- 4) Regarding the goal to reduce greenhouse gas emissions based on the Paris Agreement, reduction of CO<sub>2</sub> emissions is not currently progressing as planned in Germany due to the high reliance on coal-fired power generation (current share in energy mix: over 40%). As in a mid- to long-term carbon-free strategy, what are the initiatives currently in place and what is your future perspective? (For example, the UK is working on reduction of greenhouse gas emissions by setting five-yearly carbon budgets. Please give us your evaluation of Germany's initiatives in comparison with those in other countries.)

- 5) (As topics derived from renewable energy,) what is your assessment on distributed power sources and potential of microgrids? What is the source of competitiveness of Stadtwerke where local governments provide community-oriented power supply services by utilizing biomass energy and cogeneration, and what are the impacts on energy policy?**

**Q2: Progress of electrification in the transportation sector**

**⇒ As a trend toward electrification in the transportation sector, in recent years, the UK, France, and China have announced a policy to ban the production and sale of gasoline and diesel vehicles and regulations on introduction of EV. Meanwhile, it is said that Germany has not shown its stance on future prospect of EV, due to the competitive advantage of internal-combustion engines. Regarding electrification in the transportation sector, what is your evaluation on the initiatives currently in place and what is your future perspective?**