



自然エネルギー財団
RENEWABLE ENERGY INSTITUTE



2-B: Expansion of wind power and biomass

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Topics of the session



- What is barriers in expanding wind turbines and biomass plants?
- How to expand wind turbines and biomass plants?
- What kind of steps are necessary to expand them? How local government can contribute in disseminating it?

■ In Germany or globally

- Cost effective, major electricity source in addition to PV
- Preconditions (zoning, building codes, priority dispatch)

■ For the greater expansion in Japan

- Benefits for local (capital contribution, land-rent)
- Zoning by local municipalities
 - Planning for energy independence (Not for “avoid-map”)
- Ensuring preconditions (Priority dispatch, environmental Impact Assessment)



■ In Germany or globally

- Valuable energy source
- Multiple options (substitution for fossil fuels, heating/CHP)
- Most of the potential have been used

■ For the greater expansion in Japan

- Benefits for local (reduction of fossil fuels payment, efficient waste management)
- Local alliance scheme (Learning by doing)
- District heating, CHP (integration with future energy system)

Key roles of local municipalities



- Creating and showing success cases
- Creating foreseeable market (kW/y × ●year)
- Establish plan
 - Energy demand in macro level
 - Scoping specific projects (zoning, heat demand survey)
- Tackle totally, continuously
 - Energy efficiency first
 - Clarify economic ripple effects
- Commit ambitious renewable targets