

Development of Offshore Wind Power Generation System

Our research proposal on “Development of offshore wind power generation system” in collaboration with Tokyo Electric Power Company, Kajima Corporation, Mitsubishi Heavy Industries is accepted by New Energy and Industrial Development Organization (NEDO).

This research program is a four year project starting from 2010, in which a bottom-mounted offshore wind power generation system will be installed in vicinity of wind observation tower that is located about 3km off the southern coast of Choshi, Chiba. This study aims to develop offshore wind turbines and supporting structures suitable to the environmental conditions of Japan and to establish operation and maintenance methods based on the conditional monitoring system. The influence of offshore development on marine and birds will be investigated and a guideline will be developed for design, construction, operation and maintenance of wind power generation system with high safety and reliability levels. Figure 1 shows a rendering of offshore wind power generation system.

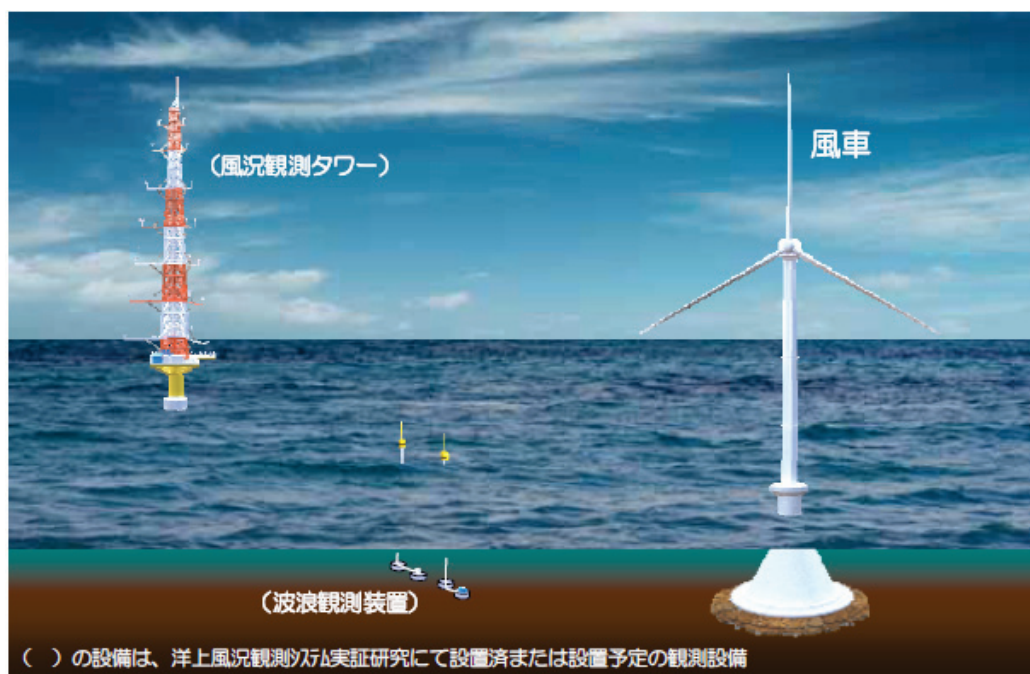


Fig. 1 A rendering of offshore wind power generation system