



Project for the Promotion of Practical Applications of Tidal Power Generation Technology (in cooperation with the Ministry of Economy, Trade and Industry)

Required amount of money for FY2015:
¥1,000 million (550 million)

Background/Purpose

- Japan has a great potential in the area of marine renewable energy sources, but we have yet to acquire the necessary technology for to practical use.
- Tidal power generation technology has the potential to provide stable power in a sustained manner all-year-round. Given that European countries have already implemented commercial-scale scientific demonstration projects on the matter, we put this technology to practical use and promote the adoption of tidal power generation as early as possible.

Project Scheme

- Outsourcee: Private organization
- Implementation period: 5 years (2014 - 2018)

Project Overview

- We will develop a tidal power generation system that is rid of adverse impact on fisheries or marine environments and is a viable candidate for installation on Japanese waters. Moreover, we will test a commercial-scale tidal power generation system that is mutualistic with fisheries. And then, we will establish tidal power generation technology and a power generation system, as well as the necessary infrastructure for both, with the goal of adopting tidal power generation in Japan.

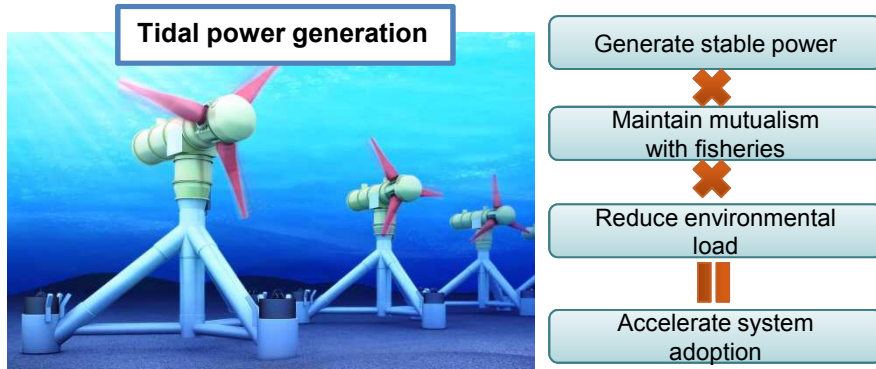
Expected Benefits

- Early practical application of tidal power generation technology will be achieved in Japan through consistent project processes from development through to testing.
- Greater fossil energy savings will be realized through the adoption of tidal power generation, and an independent and distributed-type low-carbon society will be constructed in the areas that use tidal power generation.

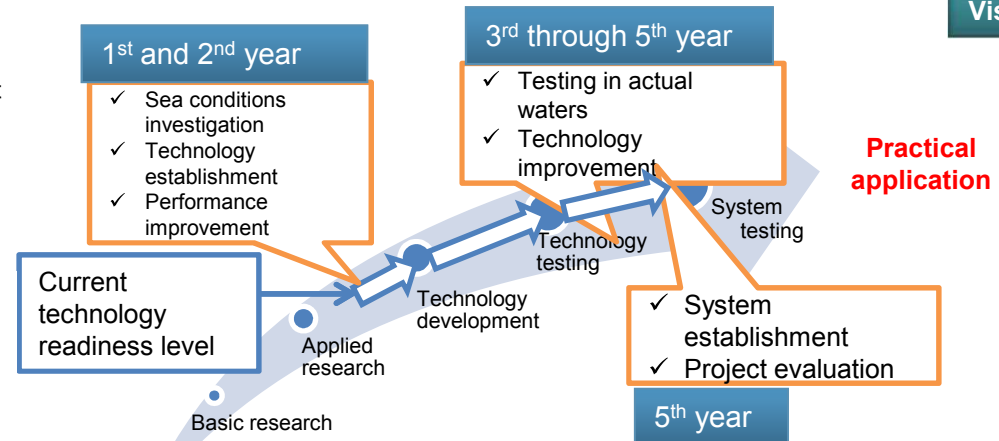
General Information on the Project

World's High Expectations for Tidal Power Generation Technology Based on Renewable Marine Energy

- ❖ Unlike photovoltaic generation technology, tidal power generation technology has the potential to provide stable power in a sustained manner all-year-round thanks to constant tidal forces that have minimal impact on the environment.
- ❖ Japan is replete with optimal coastal waters that can house such structures, such as our many straits.
- ❖ European countries have already been developing and testing tidal power generation technology ahead of Japan. We intend to expedite our practical adoption of tidal power generation technology.
- ✓ Tidal power generation technology and maintenance techniques suitable for Japan's sea conditions
- ✓ Power generation system and infrastructure that are mutualistic with fisheries
- ✓ Reduction in environmental load and establishment of environmental assessment methods



Vision



Project plan	2014	2015	2016	2017	2018
Technology development	→				
Environmental impact investigation		→			
Technology testing			→		
Project evaluation				→	