

Niigata Prefecture's Efforts in the Renewable and Next-generation Energy Sector



Promotion for Utilising Renewable, Next-generation Energy

| Renewable energy-Electricity Reat | Solar energy | Able to produce the same volume of energy as the Pacific coast side | OPrefecture-owned and operated Mega-solar OPrivately owned Mega-solar site on prefectural publicity owned land OPromotion of the implementation of solar power for household use OResearch of electricity stabilization measurements (EV reusable battery) | Implementation of solar power energy for household use (¥22.6million in 2017, compared to ¥11.8million in 2016) Promotion of renewable energy such as solar power for Area Energy Network (¥5.3 million, new project) Continue to testify effect of electricity stabilization measure (¥650,000 in 2017, compared to 14.35 million yen in 2016) • Utilization of EV reusable battery | |
|-----------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| | Wind and Ocean energy | Long coast line (suitable for ocean current and off-shore wind power generation) | ○Development and testing current power generation system ○Awashima island was chosen as the nation's testing field ○Testing of potential ocean current and off-shore power generation | Promote of testing field use (¥40 million, new project) Holding a forum for wind power generation (including off-shore wind power) (¥500,000 in 2017, compared to ¥24.5 million in 2016) | F e 3 e |
| | Geothermal power | Nation's 3 rd largest number of hot springs | OTesting of potential geothermal power OTesting Binary geothermal power generation (Matsunoyama Hot springs) | Promotion for the implementation of geothermal power generation Testing Binary geothermal power generation (Itoigawa Hot springs) | 0 a 3 c m h |
| | Hydro power, Micro hydro power | •Nation's 4 th largest volume of hydraulic resources | ○Testing of potential micro hydro power ○Prefecture-owned and operated hydro power generation (to secure and return the profit from selling electricity) | Promotion for the implementation of micro hydro power generation Agricultural water channels, dams, etc. | i s leu np itp |
| | Snow Energy (Data center) | Easy access from Metropolitan area to regions with heavy snowfall (in terms of location) | ○Data Center's survey for appropriate snowy regions ○Land promotion project (Tsunan Town), Testing the effectiveness of snow energy | ●Promote and educate on the effectiveness of snow energy(¥0 in 2017, compared t o ¥10 million in 2016) ●Promote prospective sites for the Data Center | nyr yt efn |
| | Geothermal power | Collection of related organizations and/or entities (products, excavation) | ○Support for education for related organizations and/or entities for diffusion of information ○Promote for the implementation of geothermal energy system. | Promote implementation of geothermal heating system (¥10.5 million in 2017, compared to ¥4.5 million in 2016) Utilize the result from the monitoring | n r e n w e |



Support area energy network (¥5.3 million, new project)
©Testing the effectiveness of electricity stabilization (¥650,000 yen)

©Financial support for research and development (¥30,3 million, new project) OPromotion of using testing field (¥4 million, new project)

©Formulate plan for diffusion of FCV (¥8.5 million, new project)

OFinancial support for the development of Methane hydrate resources (5 million yen)

The Tenth Japan–Russia Energy and Environment Dialogue in Niigata

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Solar energy < Promotion to use mega solar >



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Efforts towards other renewable energy sources



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Subsidy for start-up and promote to nurture the new energy project



Subsidy to promote the use of Renewable Energy Regions



Fuel Cell Vehicle • Project for the promotion & spreading of hydrogen supply facilities

Objective •Goals Project Outline

- The country is currently undertaking the outfitting and promotion of hydrogen (fueling) stations (hydrogen ST), centered regionally around the 4 largest cities, and the dissemination of fuel cell vehicles (FCV) in Niigata Prefecture is at a stand-still.
- As a result, there is a need for the prefecture to increase its energy self-sufficiency and promote its vehicle companies. We will thus undertake the promotion, development and dissemination of FCVs and hydrogen STs.
- To investigate the possible effects and significance in undertaking the dissemination of FCVs, and development and promotion of hydrogen STs on the prefectural level, while consulting with an outside expert and taking the prefecture's traits into consideration.
- In addition, to determine a visionary plan which will become the pillar of policy development, we will hold a hearing for corporations within the prefecture about hydrogen fueling techniques, and conduction a simulation of FCV dissemination, among other things.

Project Demonstration Subjects for consideration Vision plan for promotion and dissemination Dissemination of FCVs, promotion Characteristics Procedures dissemination Prefectu and implementation of hydrogen (fueling) stations, significance, results A hearing about use and application of hydrogen fueling techniques by corporations within the prefecture and e ਰਿ their techniques. Simulation of dissemination of FCVs FCV within the prefecture. Hydrogen Station (Presented by the Iwatani Corporation)

NIIGATA PREFECTURE

The Tenth Japan–Russia Energy and Environment Dialogue in Niigata

