# NAGANO'S EFFORTS FOR ENVIRONMENTAL ENERGY POLICY ~TO ACHIEVE 100% RENEWABLE ENERGY REGION ~

# ERI NAKAJIMA VICE GOVERNOR NAGANO PREFECTURE



## NAGANO ENVIRONMENTAL ENERGY STRATEGY

#### [PROJECT TERM] FY 2013~2020 [8 years]

**[BASIC TARGET]** Creating sustainable and low-carbon society.

Society with high economy growth, low energy consumption and GHG emission

SDGs (1) Environ (2) Econom

① Environment (GHG reduction)

**(2)** Economy (From outflow to intra-regional investment of capital

③ Society (Local revitalization and source of creation

CFC control Proper use of energy	Energy saving policy package	Renewable energy policy package
Absorb/Immobilize       Peak control         Adaptation       Peak control         Mtural energy       Energy independent region         Mtiralerchange Policy       BigL ネルギー政策 Sustainable Energy Policy	<ul> <li>OEnergy saving plan for business activities</li> <li>OEnergy saving plan for energy supply</li> <li>OPromoting B2B collaboration/ cooperation</li> <li>OEvaluation system for environmental energy efficiency of buildings and houses</li> <li>O Energy conservation support system for households</li> <li>OCampaign for energy efficient work style and life</li> </ul>	<ul> <li>OPublic-private collaboration by the Renewable Energy Shinshu Network</li> <li>O Supporting community-led social businesses through renting roofs of public facilities</li> <li>O Subsidies for systematical supporting from planning to installing renewable energy facilities</li> <li>O Micro-hydropower supporting scheme</li> </ul>

Winner of the Best Long-term Target Award grand prize, in Low Carbon Cup 2016, Local Government Division

Chosen the SDGs Future City initiating SDGs in June 2018.

### **GHG** emissions reduction target



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#### Target of final energy consumption and renewable energy introduction



#### Target of final energy consumption

# ENERGY SAVING POLICY FOR BUSINESS ACTIVITIES



### UNIQUE EFFROTS BY NAGANO PREFECTURE 2 ENERGY CONSERVATION OF BUILDINGS



O Renewable energy introduction promotion system for building owners

O<u>Private resident and all other new building</u> owners are required to consider energy efficiency and introduction of renewable energy facility when they build houses or buildings.

Energy-efficient buildings prevent heat shock and create strong economy to local house builders.

**SDGs** 

Nagano is the only prefecture that requires house owners to consider introducing energy-saving and renewable energy when building a new home. OSupporting energy-saving renovation project for building owners

O Promotes energy-saving renovation of existing buildings



After O midterm review

Builders supporting energy-saving renovation are recognized by the prefecture.

D Builders supporting energy-saving renovation diagnose energy efficiency of buildings using simple diagnostic tools provided by the prefecture.





#### Provide Profit-Return Based Subsidy for Renewable Energy Power Companies Using FIT



## UNIQUE EFFROTS BY NAGANO PREFECTURE **(4)** NATURAL ENERGY POLICY



# UNIQUE EFFORTS BY NAGANO PREFECTURE **5** ELECTRICITY SALES CONNECTING NAGANO AND METROPOLIS (Public Enterprise Bureau)

- •Sell electricity to metropolises from two new hydro power plants.
- •A consumer chooses a plant as a supporter and buys electricity. 100 yen/month will be returned to the plant as a support fee.
- •The support fee is used to provide plant/area tours and gifts of Nagano special products for supporters.





## LOCAL RENEWABLES CONFERENCE 2017 IN NAGANO

- ◆ Nagano Prefecture hosted Asia's first Local Renewables Conference, which had been held only in Europe.
- Good practices from Japan and overseas were shared in six sessions. The Local Leaders' Summit was also held with leaders from Japan and Germany.
- Importance of cooperation among each organization was recognized. "The Nagano Declaration" was also presented to take new action and enhance cooperation.

#### [Conference Summary]

Name: Local Renewables Conference 2017

Creating and networking energy autonomous communities for a low carbon society

Date: September 7 ~ 8, 2017

Venue: Aqua Innovation Center, SASTec, Faculty of Engineering, Shinshu University, (Nagano City)

Participants: Total 765

Local governments from Japan and Germany, renewable energy-related companies and organizations, etc.

Content: Keynote speech, 6 sessions, reports from advanced local governments, Japanese and German Local Leaders' Summit to achieve 100% renewable energy cities and regions, "The Nagano Declaration"

**Organizers:** 







**Co-organizer:** 





### THE NAGANO DECLARATION

#### LOCAL LEADERS WORKING TOGETHER TO ACHIEVE 100% RENEWABLE ENERGY CITIES AND REGIONS

We, the Mayors and Governors of Japanese cities and regions gathered at the Local Renewables Conference 2017 in Nagano on Friday 8 September 2017, are honored to hold the Local Renewables Conference in Japan for the first time.

We recognize that Japanese local governments are facing an era of population decline and slow economic growth. The social systems developed in the past that assume population growth and high economic growth no longer apply to modern needs, the consequence of which could have profound impacts on people's lives and local economies. With the Paris Agreement entering into force, the world has witnessed an important step towards the realization of a decarbonized society by the end of the century.

We are confident that, while population decline and slow growth may be tough challenges, people's lives and local economies can be improved with good local policies, citizen actions and new ideas. To make this a reality, local governments and citizens must work hand-in-hand towards a more sustainable future.

We believe that one of the key components to achieving this vision is renewable energy. Local economies will thrive by switching from imported, fossil fuel-based energy sources to more local sources of renewable energy. This will not only increase community income and local employment opportunities but will also improve quality of life by advancing a sustainable lifestyle that is rooted in the local environment and community.

Local Renewables Conference 2017, hosted by the Ministry of the Environment, Japan, Nagano Prefecture, and ICLEI – Local Governments for Sustainability, served as an important forum to share both domestic and international knowledge to make a switch towards this new path. In particular, the experiences and knowledge shared by cities and regions from abroad were extremely valuable. Local governments and local citizens that face similar challenges were able to share their experiences and hold a dialogue beyond national borders. We, participants from Japan, express our sincere gratitude to all participants from abroad.

We, the Mayors and Governors of Japanese cities and regions gathered today at the "Local Leaders' Summit," declare to take new action and enhance cooperation towards achieving 100% renewable energy cities and regions. With the support of the participants attending the Local Renewables Conference 2017, we commit to utilizing local renewable energy to overcome the challenges that we face, protect the livelihoods of our residents, and improve local economies. To reach these goals, we will enhance our cooperation with local governments and local communities, both at home and abroad.

Furthermore, we hope that more local leaders, not only from Japan but also from Asia and around the globe, will join us in this endeavor by supporting this declaration.

With hopes that today will be marked as a day and forum that paved a pathway towards a new, bright future.

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