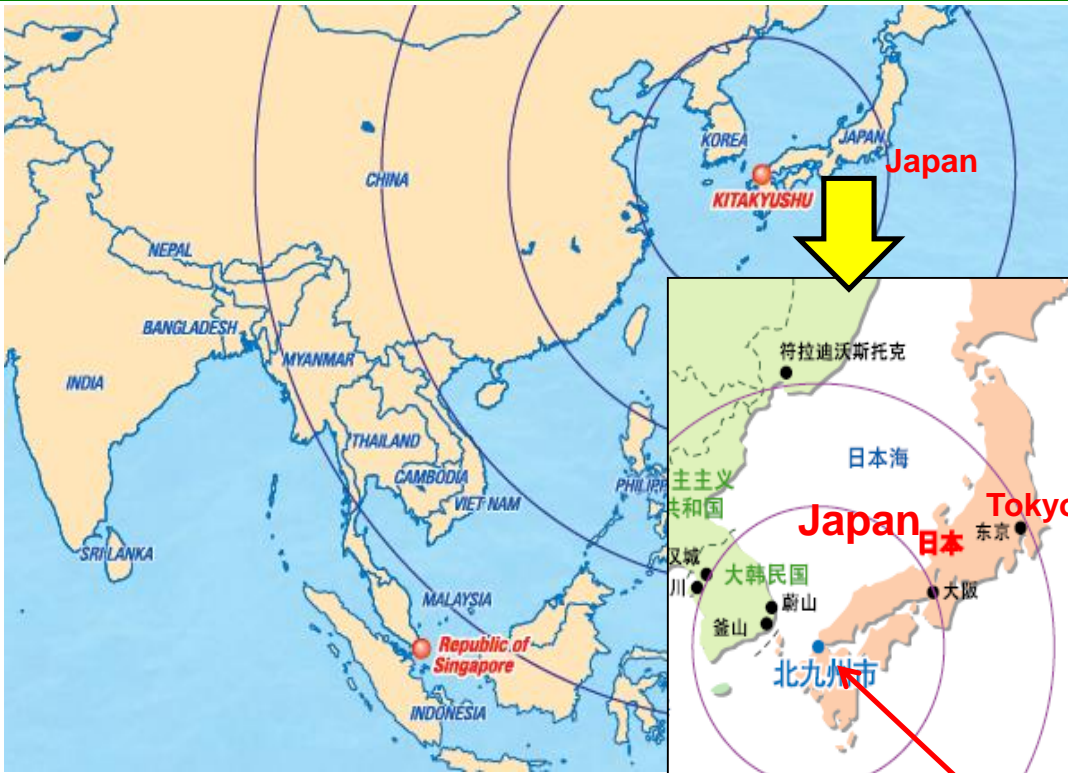


Sixth Regional 3R Forum in Asia and The Pacific



Kitakyushu Asian Center for Low Carbon Society
Environment Bureau, City of Kitakyushu

City located near to other Asian nations, rich in nature, and developed as a manufacturing area



■ Kitakyushu City
 Population: 977,000 (2010) Area: 487.88 Km²
 GDP: 3,430 billion yen (2010)

Kitakyushu City

Rich nature and branded food materials



Karst Plateau Hiraodai



Wakamatsuhoku Beach



Ouma Bamboo Shoots



Kanmon Straits Octopuses



Kokura Beef



Buzen-Sea Oysters



Wakamatsu Special Tomatoes

Major companies in Kitakyushu area



Nippon Steel Corporation



Yasukawa Electric Corporation



TOTO Ltd.



Mitsubishi Chemical Corporation



Toyota Motor Corporation · Nissan Motor Co., Ltd.



Mitsubishi Materials Corporation

Overcoming Severe Pollution: Kitakyushu's Experience

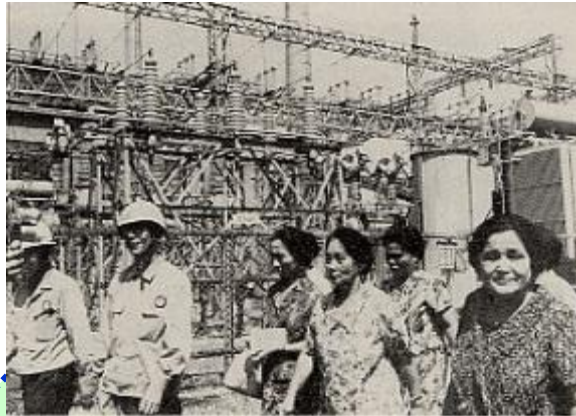
1960s



Today



Key Factors: Partnerships among Multi-Stakeholders



Residents



Study session on air pollution measures with university professors

Residents observing a private company

Partnership



Environmental supervision & environmental infrastructure



Cleaner Production & pollution control equipment

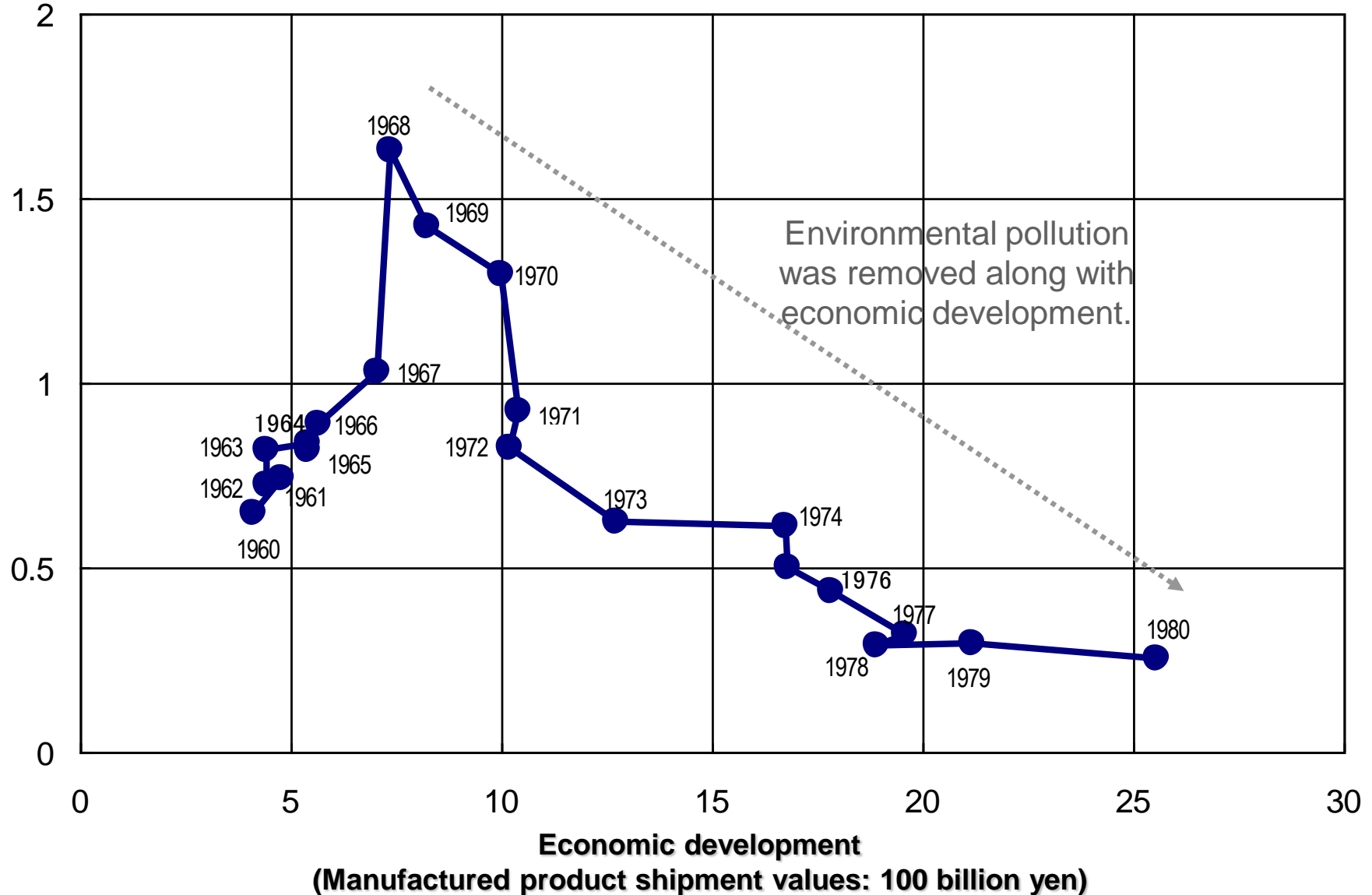
Local Government

Private Enterprises

Balance of environmental policies and economic policies in Kitakyushu City

Environmental pollution (Sulfur oxides)
(mg-SO₃/100 cm²/day)

Source: "Survey on the Japanese Experience" by the World Bank



Development of international cooperation on environmental issues since 1980

Accepted trainees: 7,453 persons from 150 nations; Dispatched specialists: 175 persons to 25 nations
Promotion of cooperation networking between Asian cities and environmental improvement projects



**Contribution to environmental improvements
in Dalian, PR China**
(Dalian City received the Global 500 Award in 2001.)



**Water supply project
with Phnom Penh City,
Cambodia**



**waste composting project with
Surabaya City, Indonesia**
(Adopted by over 20,000 households)

Structure toward Sustainable Development in Kitakyushu City

Sustainable Development

Resource Recycling Society



Low Carbon Society



Natural Symbiosis Society



Citizen Engagement (Based on Environmental Education and Awareness Raising)



Kitakyushu Eco-Town Project

Japan's First and Largest Eco-Town

Approved 1997, Started operations 1998

No. business facilities: 29

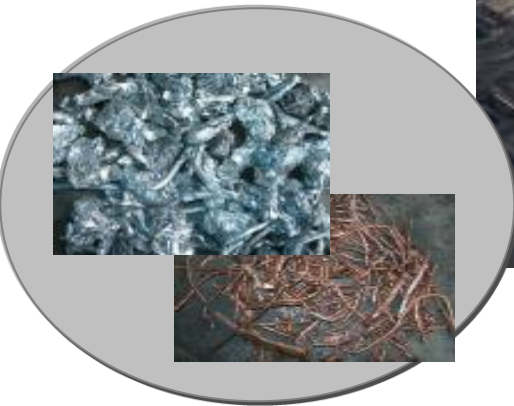
No. research facilities: 16



Automobile recycling



Fluorescent lighting recycling



Collection/treatment of rare metals

- Investment ~66 billion yen
- Employees ~1,300
- Visitors ~1,000,000 (1998-March 2012)



R&D on recycling technologies for solar power systems

Kitakyushu Smart Community Creation Project

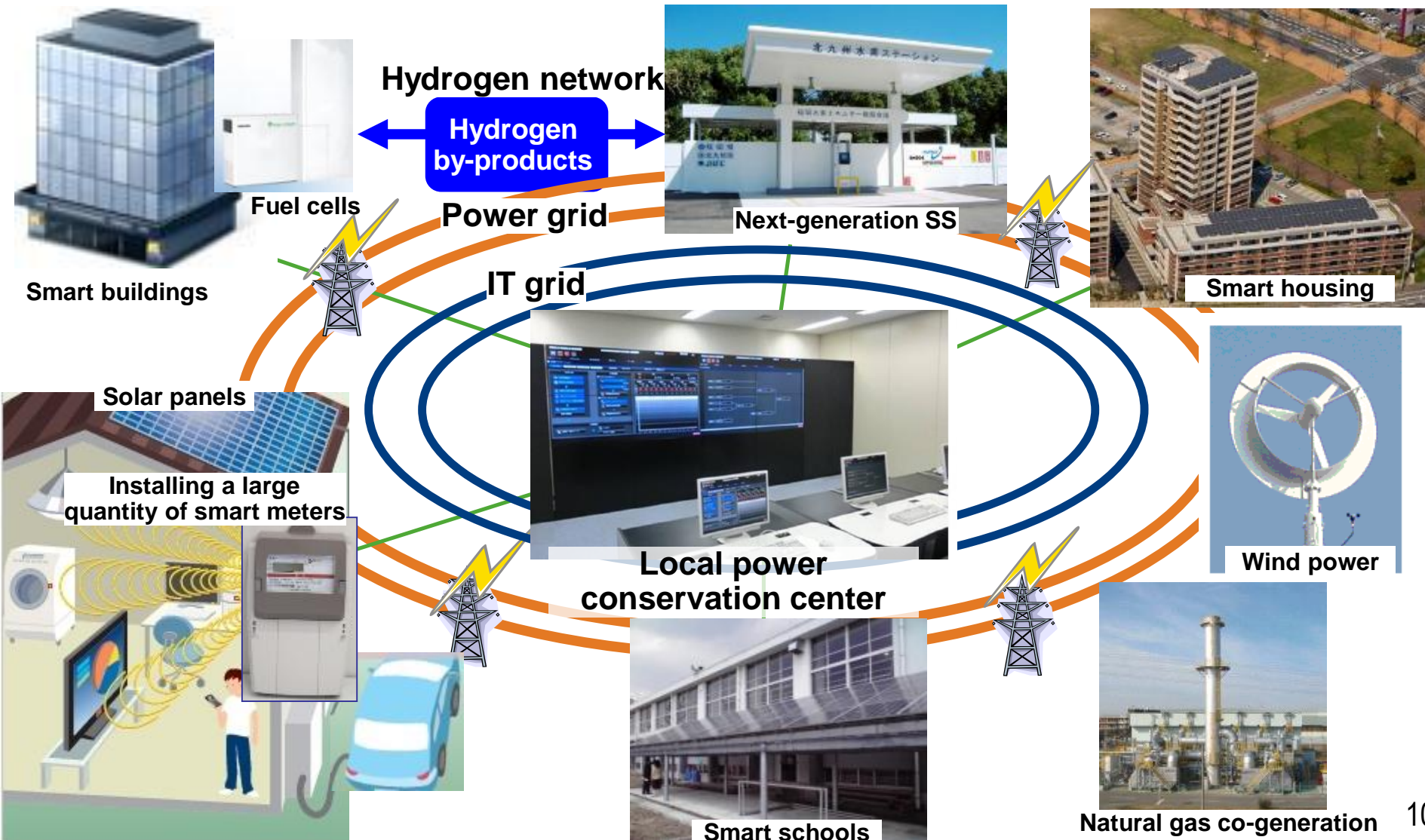
“Symbiosis between Factories and Residents”



Kitakyushu Smart Community Creation Project

“Symbiosis between Factories and Residents”

Creating a new lifestyle with locally produced and locally consumed energy
We call, “Prosumer”



“ISGAN AWARD of Excellence 2014”



Award of
Excellence
Finalist | 2014

Recognizing excellence in
smart grid projects around the world

Finalist

The ISGAN Award of Excellence 2014

for

Consumer Engagement and Empowerment

has been awarded to:

Share!

Kitakyushu Smart Community Council

12 May 2014

Michele de Nigris
Chair
International Smart Grid
Action Network

Yonghun Jung
Secretary General and Award Administrator
International Smart Grid
Action Network

Patrick Turnbull
Chair
Global Smart
Grid Federation

The International Smart Grid Action Network (ISGAN) is an initiative of the Clean Energy Ministerial that engages governments and stakeholders to advance the deployment of smarter, cleaner electricity grids globally. ISGAN is organized as the Implementing Agreement for a Co-operative Programme on Smart Grids (ISGAN) under an International Energy Agency framework.

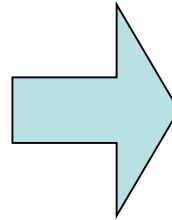
The Global Smart Grid Federation (GSGF) links leading national and regional smart grid organizations from around the world, each representing a variety of private sector, academic, and other stakeholder interests.

International Smart Grid Action Network (ISGAN)
www.iea-isgan.org

Natural Symbiosis Society (Biodiversity)

Kitakyushu Hibiki Biotope

Utilizing land after the landfill, City of Kitakyushu opens biotope space for citizens to the purpose of getting know the nature and biodiversity



Bumping landform after the landfill generated wetland, freshwater pond and grassland, then various natural lives make their habitant.



<Characteristics>

- Area is 41ha (The largest biotope in Japan)
- Utilizing land after the landfill
- Some endangered species (Ex. *Libellula angelina*) live this area



Location of Kitakyushu Hibiki Biotope

Kitakyushu Eco Town Area

Kitakyushu Hibiki
Biotope 41ha

Practical Research Area

Comprehensive
Environmental
Industrial Complex

エヌエスウインドパワーひびき

ユーコーリプロ

エコウッド

アミタ

コカ・コーラウエストロジスティクス

テトラエナジーひびき

Kitakyushu Environment Museum

Overall Base for Citizens' Environmental Study and Exchange



Exterior



Exhibits in side Museum

- Visitors : 120,000 Persons per year
- Function : Information Dissemination on the History of Overcoming Pollution and Global Environmental Issues in 8 zones.
- Facility : Eco-friendly Facility with Cutting-edge Environmental Technology.
(Recycled Materials, Solar Power Generation, Biotope, NOx Absorption Block)
- Open : April 2002

Action by environmental learning supporters (Volunteer)

- Environmental learning supporter is a volunteer who supports citizen's environmental education and activity in environmental museum.
- They are educating history about overcome pollution, waste/recycle, 3R, global warming, new and renewable energy with method of environmental craft work, chemical experiment, quiz and picture-story show according to the visitor's age.

■ 65 Volunteers are active

■ Main Activity

- Environmental education to visitors in museum
- Implementing lecture to school and public communication center
- Guide to environment related facility
- Environmental campaign to rise public awareness



Passing down history of overcome pollution



Environmental chemical experiment



Awareness of 3 R activity

Kitakyushu City World Environmental Capital Examination

The first citizen's environmental examination in Japan.

<Purpose>

Starting from 2008. Capacity building for the person who has environmental sense and knowledge not only domestically but also globally.

<Characteristics>

- Consists of 3 categories (Junior level, General level, Advanced level)
- Publishing official text book
- Test certificate is published for exam passer (Score of more than 70%)

Result of Exam 2014

- Date: Dec. 15th (Sun.)
- Venue: West Japan General Exhibition Center
- Examinee: 2,424 Persons
- Average Score : 62 Points
- Exam Passer : 797 Persons
- ✳ Passer is more than 70 points



Examination in Convention Hall



Examination in Elemental School



Official Text Book

OECD Green Cities Programme



Paris, France



Chicago, U.S.A.



Stockholm, Sweden



Kitakyushu, Japan



OECD Report “Green Growth in Kitakyushu, Japan” published in 2013



OECD



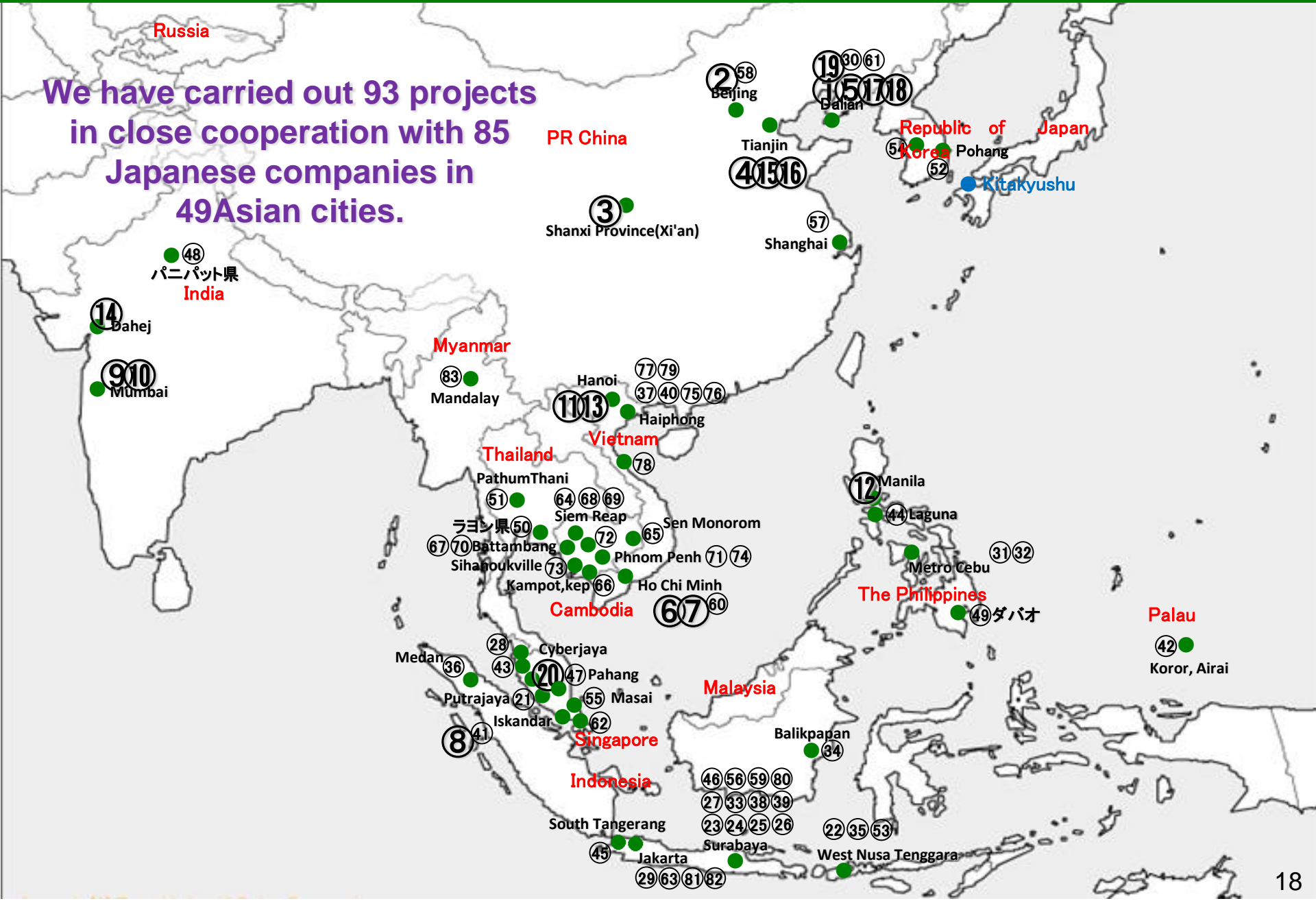
The city’s green growth initiatives include an “Eco-Town” recycling cluster and ongoing investments in green city demonstration projects, such as “Smart Community” trial in the Higashida area. Kitakyushu has also implemented international city to city cooperation for sustainable development in Asia and has steadily built up reputation among cities aiming for green growth.

Much as for past achievement, future green growth in Kitakyushu will have to rely on strong citizen engagement.

http://www.oecd-ilibrary.org/urban-rural-and-regional-development/green-growth-in-kitakyushu-japan_9789264195134-en

Diverse Project Development Map

We have carried out 93 projects
in close cooperation with 85
Japanese companies in
49 Asian cities.



Building Win-Win Relationships

Asian cities

Mitigate pollution and improve quality of life while reducing CO₂



Kitakyushu

Rejuvenate communities through overseas environmental business development primarily by Kitakyushu companies.



In addition to international environmental cooperation, when it comes to international environmental business development, our hope is to see the advancement of a uniquely Japanese approach, different from that of other countries, that will respect and bring joy to local residents.

