

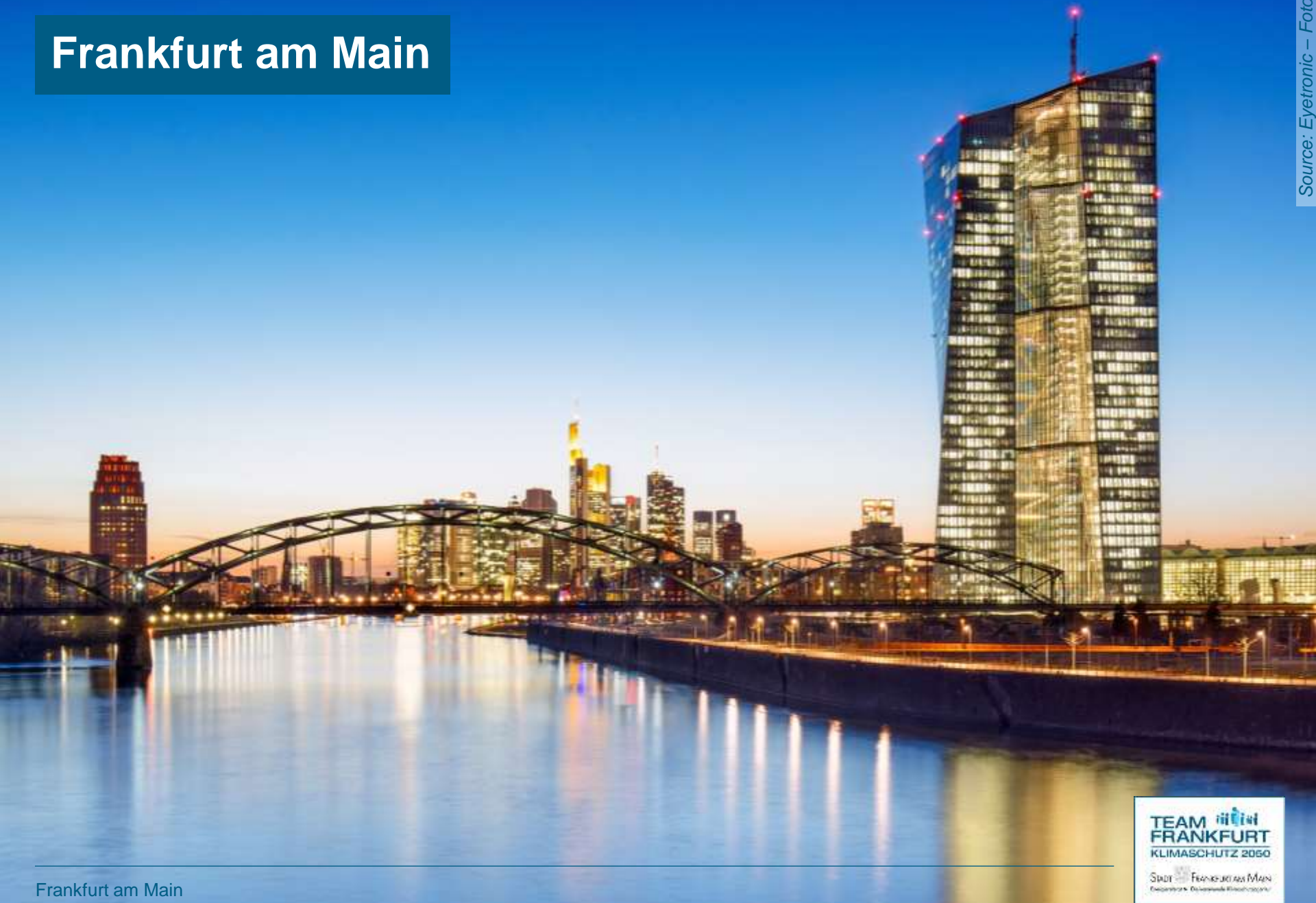
# Yokohama – Frankfurt am Main Joint Action Plan – A roadmap for sustainable development

**EU-IUC Japan, 4th Exchange Meeting**

**Shuhei Okuno, City of Yokohama**

**Florian Unger, City of Frankfurt am Main**

# Frankfurt am Main



Source: Eyetronic – Fotolia.com

# Frankfurt am Main

- Economic and geographical center of the FrankfurtRheinMain region
- Population of approx. 750,000
- Home to 200 Banks and the European Central Bank
- World's largest trade fair, congress and event organiser
- Germany's largest airport (70 million passenger p.a., 2,2 million tons of cargo)
- Frankfurt is home to other industries, such as the creative industries, IT and telecommunication, biotechnology, life science, logistics and industrial production
- Germany's highest office building (259 meter)
- World's leading internet exchange DE-CIX
- Home to about 600,000 m<sup>2</sup> data center surface
- Passive house capital



# Frankfurt am Main – Climate Protection Policy?



Source: Fotolia .de # 118063811

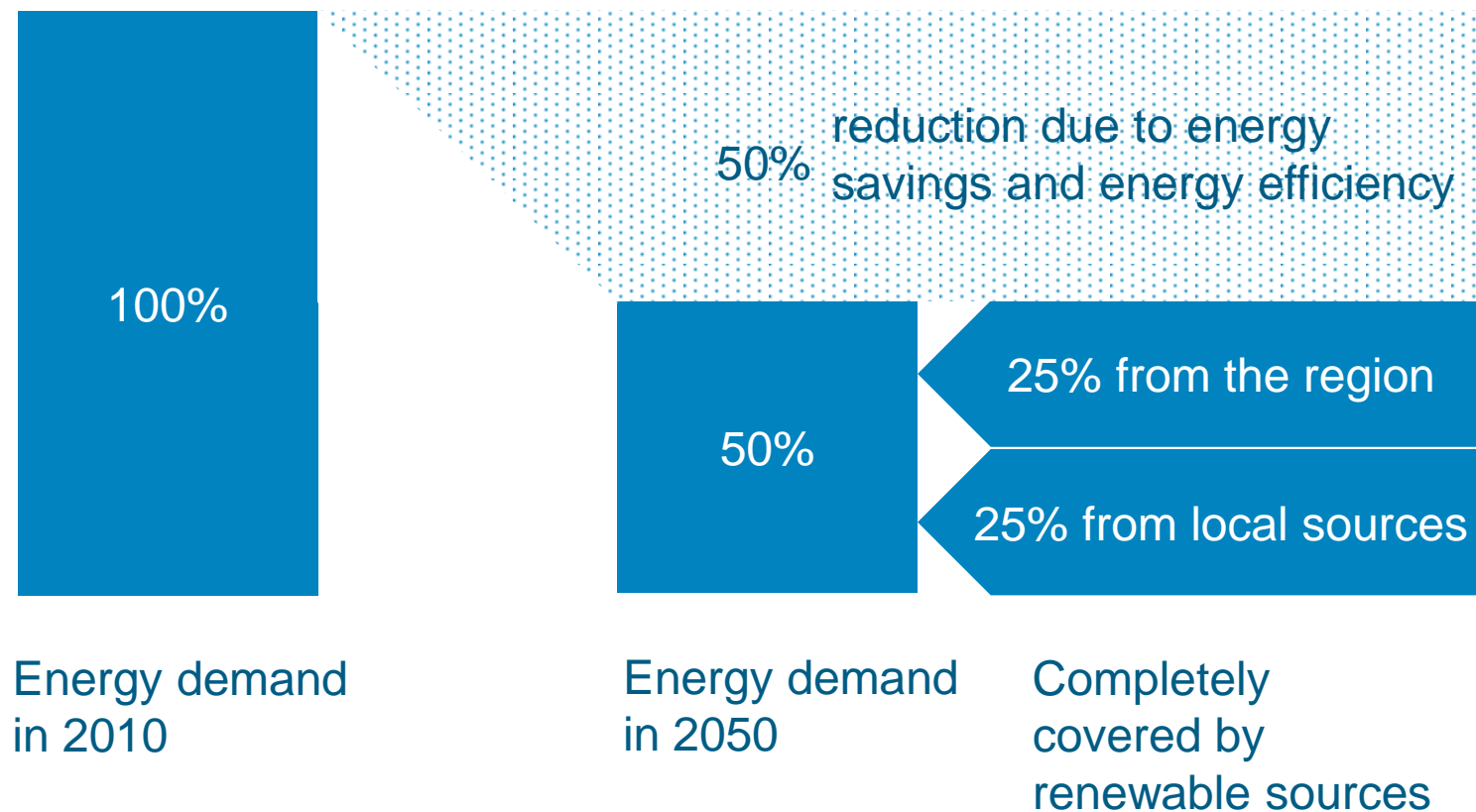
# Masterplan 100% Climate Protection

- Consideration of all sectors
- Assessment of energy related potentials: gains through energy efficiency, energy savings and the development of renewable energy sources
- Set up of a package of measures for all sectors
- Szenario Development for 2010 – 2050
- Save up to 95% CO<sub>2e</sub> by 2050



Source: Fotolia .de # 61843070

# Masterplan 100% Climate Protection



# City of Yokohama



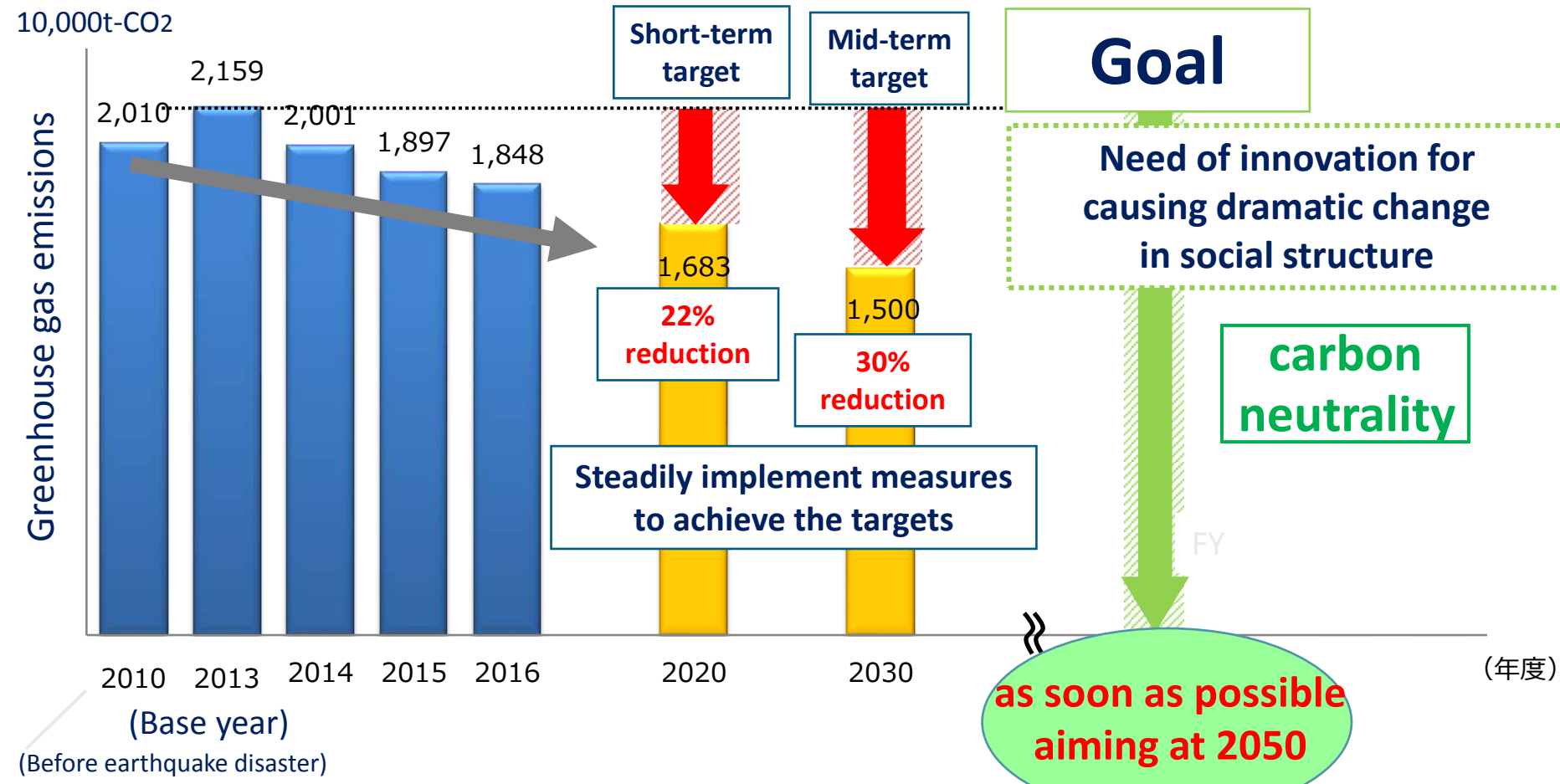


# City of Yokohama

- 2nd largest city in Japan
- Population of approx. 3.74 million
- Approx. 120,000 offices
- Headquarters or R&D center of international companies (Nissan, Apple, Bosch...)
- Venue of international conferences (APEC, ADB Annual Meeting, TICAD...)
- WWF's One Planet City Challenge National Winner (2018)
- C40 Cities Award (2016)
- The most desirable cities in which to live in Japan (2019)
- Number of Tourist of approx. 34.2 million (2018)



# Vision of Climate Action: Zero Carbon Yokohama

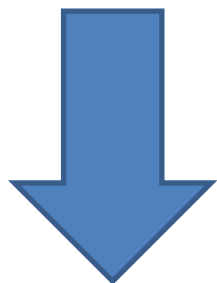


Realizing Zero Carbon (Carbon Neutrality) as soon as possible aiming at 2050

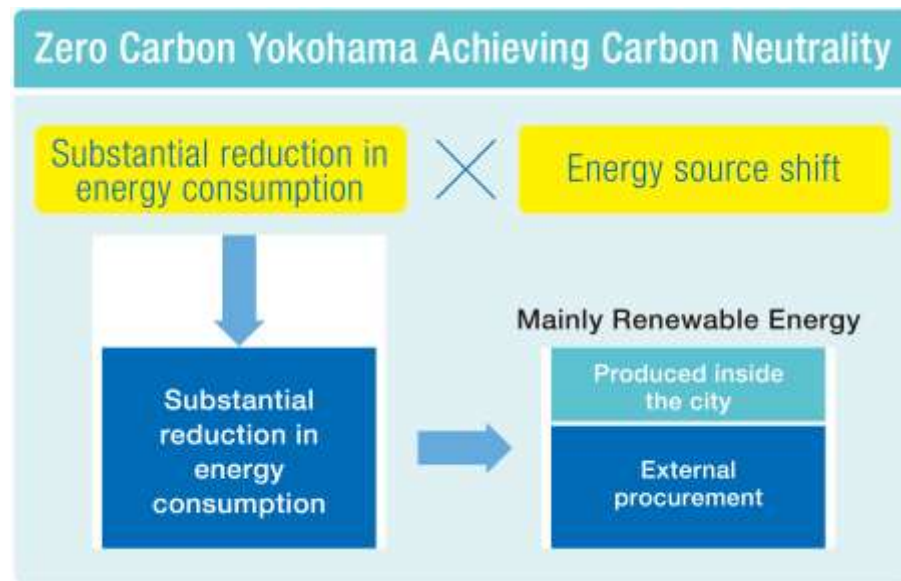
# Strategy for Using Renewable Energy

## Formulating the Strategies for Using Renewable Energy in 2019

- 100% Renewable Energy by 2050
- Reducing Energy Consumption and Conversion of Energy Source



### Major Policies based on the Strategy



Study of establishing PPS Environmental Model Zone	City Hall RE 100
Cooperation with other municipalities in RE production	Virtual Power Plant Action Plan

# Exchange of 2 Cities in IUC-Japan Project



Nov. 2017 in Brussels



Apr. 2018 in Yokohama



Aug. 2018 in Frankfurt am Main



Oct. 2018 in Brussels



# Exchange of 2 Cities in IUC-Japan Project

## IUC Case Study



### FRANKFURT AND YOKOHAMA SHARE KNOWLEDGE ON ENERGY MANAGEMENT, SMART CITIES, EDUCATION AND MORE

Frankfurt and Yokohama are focusing on a range of topics as part of their collaboration; each item broadly fitting under the umbrella of "smart cities". Issues being addressed include energy management, low-carbon transportation, environmental education campaigns and urban-regional cooperation.

#### EXECUTIVE SUMMARY

For almost a decade, the Japanese city of Yokohama has been collaborating with Frankfurt. In 1997, a representative office for Europe was established in the German metropolis, with a partnership agreement signed between the cities in 2011.

Frankfurt and Yokohama saw the IUC programme as a chance to deepen their collaboration and focus on issues related to sustainability. The partnership is aided by the fact that the cities share similarities, but each has made advancements in specific fields - this allows the administrations to learn from one another's expertise.

Through their IUC cooperation, Frankfurt has taken note of Yokohama's integrated energy management system, as well as the city's

collaboration with the private sector. Yokohama has benefited from Frankfurt's work on establishing links between the city and the wider region, and the city's environmental education efforts.

Given the relatively short time-frame for cooperation under the IUC, the pairing is focusing on the sharing of processes rather than implementing physical infrastructure, believing that it is possible to push-forward sustainability through sharing new ways of doing things.

Frankfurt and Yokohama have yet to finalise their local action plan, which, as of time of writing, remains a work in progress. The cities wish to deepen their understanding of their partner's legal and political circumstances before defining the plan.

## Tweet Relay for Earth Hour 2019

Frankfurt am Main  
@StadFfm  
#Panda greetings from the City of #Frankfurt to our sister city #Yokohama!  
#EARTHHOUR 2019, #Connect2Earth  
@yokohama\_koho



3:00 - 2019年3月7日

Frankfurt am Main

横浜環境情報  
@yokohama\_koho  
【アースアワー2019】3/30は、世界の人々が消灯リレーに参加するアースアワー。横浜でも、みなとみらい地区等が消灯。今日からアースアワー親善大使のパンダ「零零（れいれい）ちゃん」が様々な場所へ行き、地球への思いをつなぎます。最初の1枚は小林副市長と🐼 #EARTHHOUR2019 #旅する60パンダ



Yokohama

がくとくん横浜副都心市【公...  
@gktsk\_yokohama  
WWW.JAPANで実施している、#旅する60パンダプロジェクト。郡山にも、親善大使の中（ちゅんちゅん）が来てくれたよ〜！手持ちのパンダグッズでも参加できるから、みんなも発信してみてね！  
#EARTHHOUR2019 #地球温暖化防止  
wwf.jp/campaign/earth...



3:00 - 2019年3月7日 | 横山 副都心市長と環境部長と環境課長

Koriyama

## Others...

Article in the Magazine "Shintoshin" (New City) by City Planning Association in Japan

Article in ICLEI Japan website

# Change of Focus of Cooperation

At the beginning

- 1) Energy Management
- 2) Hydrogen
- 3) Raising Awareness Project
- 4) Others



Now

- 1) **Renewable Energy  
(Interdependency with  
regional development)**
- 2) **Raising Awareness Project  
using “Nudge”**

## Lessons learned for successful partnership

- Take the time to understand the context in which your partner city is operating.  
Ex. Laws and ordinances, politics, systems, cultures etc.
- Be in touch on a frequent basis and make a one to one connection

# Overview of Action Plan

Common Challenge of the 2 cities

- 1) Increasing renewable energy
- 2) Changing behavior of citizens and businesses

Cooperation Areas: Energy Transition



Focus: 1) Interdependency with regional development

2) Raising awareness with regard to different target groups

⇒ To develop Smart City

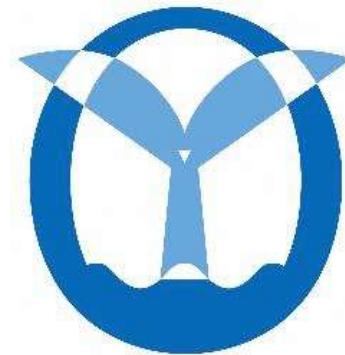
Specific Objectives:

- 1) Development of cooperation with other municipalities to support the utilization of additional renewable energy production
- 2) Launching a new raising awareness project using “nudge”



**TEAM**   
**FRANKFURT**  
**KLIMASCHUTZ 2050**

STADT  FRANKFURT AM MAIN  
Energierreferat > Die kommunale Klimaschutzagentur



**Zero Carbon**  
**Yokohama**