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COP13 Climate Alliance



COP14 ICLEI



COP15 Climate Alliance



COP14 Climate Alliance



Munich, Frankfurt, Freiburg, Bonn, Cologne, Hannover  
Yokohama, Nagoya, Tajimi, Hiroshima, Kumamoto , June 2008



General assembly  
Climate Alliance  
at St.Gallen (2012)



Kawasaki, Toyota, Nagoya  
Frankfurt, Magdeburg, BMU  
Oct.2013 at Nagoya University



Resilience/Adaptation  
Berlin, Jena, Feldheim, Toyota, etc.  
Nov.2015 at Hosei University



Feldheim, Rudolstadt, Todnau, Schenau, Freiburg  
Sapporo, Kawauchi, Toyota, Nagoya, etc. Sept. 2013

## Examples of Stadtwerke and energy corporative association

	経営形態 Operation	出資者 Capital investor	電力調達 Procurement of electricity	配電網 Electric grid	顧客 customer	自治体の収入 Revenue of local government
フェルトハイム地区(トロイエンブリーツェン市) <b>Feldheim (Stadt Treuenbrietzen)</b>	フェルトハイム・エネルギー有限会社 <b>Feldheim energy GmbH</b>	地域住民 <b>local residents (3000 Euro/household)</b>	地元で風力発電する会社から調達 <b>From wind power generating company at Feldheim</b>	有限会社がEU等からの補助金を得て独自に整備 <b>Install own grid with subsidies from EU etc.</b>	地区内のほぼすべての需要家 <b>Almost of Feldheim (37 families and one factory)</b>	---
ルドルシュタット市 <b>Rudolstadt city</b>	ルドルシュタット・エネルギー有限会社(都市事業団) <b>Rudolstadt Energie GmbH (Stadtwerke)</b>	市が51%出資 <b>City invested 51%</b>	10%は都市事業団が発電(風力・太陽光)、残りは電力取引所から調達 <b>Stadtwerke generates 10% with wind and PV. 90%from electricity exchange.</b>	都市事業団が旧コンビナートから配電網を取得 <b>Stadtwerke took out grid from former industrial complex</b>	市内の需要家の90%。市外の需要家 <b>Ca.90% of consumer in the city . Ca.10% out of the city.</b>	歳入の4%強 <b>More than 4% of total revenue</b>
トートナウ市 <b>Todnau city</b>	オベレスビーゼンタール・エネルギー有限会社(都市事業団) <b>Obereswiesental energie GmbH (Stadtwerke)</b>	市が52%出資 <b>City invested 52%</b>	100%を都市事業団が水力、太陽光、コージェネで発電 <b>Stadtwerke generates 100% with hydro, wind ,PV and CHP</b>	都市事業団が地域のエネルギー会社から配電網を取得 <b>Stadtwerke took out grid from regional electric company</b>	市内の需要家の90%。市外の需要家 <b>Ca.50% of consumer in the city . Ca.50% out of the city.</b>	多い年には歳入の13% <b>13% of total revenue in high ratio year</b>
シェーナウ市 <b>Schenau city</b>	シェーナウ電気事業協同組合 <b>Schenau electric cooperative association(EWS eG)</b>	市民が100%出資 <b>citizen invested 100%</b>	20-30%を組合がPV,バイオマスCHPで発電、約70%はノルウェーの水力から調達 <b>EWS eG generates 20-30% with PV and biomass CHP ca.70% from hydro electricity in Norway.</b>	市内・周辺の配電網は組合が大手電力会社から購入 <b>EWS eG bought grid in city and suburb from big electric company</b>	市内の需要家のほぼ全部、国内に13.5万の顧客 <b>Almost of Schenau City and 135 thousand customer</b>	---

# Questionnaire study on local energy policy (September 2014)

% (in answered ca. 900 prefectures and municipalities)

## 1 Energy plan

	energy plan	Targets of energy plan		
		Autonomous energy	renewable energy	CHP
Prefectures	51	45	100	25
Municipalities over 0.5 Million	26	60	100	80
over 0.2 Million	13	40	100	60
under 0.2 Million	9	35	75	17

## 2 renewable energy : producer, subsidies

	Small hydro electricity	Wind electricity	Subsidy or PV	Subsidy for CHP
Prefectures	64	21	44	15
Municipalities over 0.5 Million	42	32	79	68
over 0.2 Million	25	15	90	24
under 0.2 Million	4	5	66	4

3 Disposition to establish power retailing company which prefectures or municipalities also invest

	<b>power from own renewable power plant</b>	<b>power from renewable, waste , CHP, etc. in territory</b>	<b>power from 100% renewable in and out of territory</b>	<b>Consider all possibilities</b>	<b>total</b>
Prefectures	0	0	0	7	7
Municipalities over 0.5 Million	0	1	0	3	4
Municipalities over 0.2 Million	4	1	0	3	8
Municipalities under 0.2 Million	30	17	0	11	61
total	34	19	2	24	80
% (in answered municipalities)	3.5	1.8	0.2	2.7	8.2

# Questionnaire study on local energy and climate policy (June 2017)

Municipalities over 200 thousand populations  
(Number of municipalities in answered 101 municipalities))

Energy autonomous				CO2reduction target at least 25% by 2030		Local Adaptation plan		Reduced CO2 in 2013/2014	
increase renewable energy towards 2030	increase CHP towards 2030	power retailing company (municipality invests also)		already set up	in preparing	already set up	in preparing	compare to1990	compare to 2007
		already establish	in preparing						
61	20	3	8	32	29	30	44	17	28

# Global Covenant of Mayors of Climate and Energy-Japan (GCoM-Japan)

- (1) pioneer municipality supporting the Paris Agreement
- (2) front runner of **regional creation** through **local energy production/consumption**

