



Local Climate Commitments in Raising the Ambitions of the Paris Agreement

파리협정을 선도하는 지방정부의 기후변화 대응 약속

Sep 1(Thu)~2(Fri), 2016

Seoul City Hall, Seoul, Republic of Korea

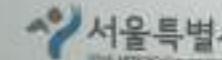
2016. 9. 1(목)~2(금) 서울특별시청 신청사 다목적홀



Seoul Mayors Forum on Climate Change 2016
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Title	Seoul Mayors Forum on Climate Change 2016
행사명	2016 기후변화 대응 세계도시 시장포럼
Theme	Local Climate Commitments in Raising the Ambitions of the Paris Agreement
주제	파리협정을 선도하는 지방정부의 기후변화 대응 약속
Date	Sep 1(Thu) – 2(Fri), 2016
일시	2016. 9. 1(목)~9. 2(금)
Venue	Seoul City Hall, Seoul, Republic of Korea
장소	서울특별시청 신청사 다목적홀
Organizers	Seoul Metropolitan Government, ICLEI - Local Governments for Sustainability
주최·주관	서울특별시, 아클레이 – 지속가능성을 위한 세계지방정부
Language	Korean, English, Chinese
공식언어	한국어, 영어, 중국어



I would like to extend a warm welcome to all of the delegations that have visited Seoul to attend the "Seoul Mayors Forum on Climate Change 2016."

Seoul is a beautiful city with 2,000 years of history and magnificent mountains and rivers. It is also a vibrant city that never seems to sleep as the lights are turned on day and night. More than 10 million tourists visit Seoul every year.

The citizens of Seoul are working closely with the Seoul Metropolitan Government to ensure the city's sustainable development. A good example is the "One Less Nuclear Power Plant" initiative. In just 1 year and 2 months, we were successful in reducing 2 million TOE, which is equivalent to the capacity of one nuclear power plant. And based on this accomplishment, we are now striving to reduce 4 million TOE, which is equivalent to the capacity of two nuclear plants.

I believe that if we can share and learn each other's experiences and best practices at this Mayors Forum on Climate Change, we can lay the foundation for efforts to implement the Paris Agreement. When cities, which account for more than 80 percent of greenhouse gas emissions in the world, come together and work together, we can open up a sustainable future together.

So this Mayors Forum will serve as a good opportunity for the leaders of cities to overcome the shortcomings national governments and find more practical and substantial ways to tackle climate change.

Once again, I welcome the delegations from abroad to Seoul and I wish you a pleasant and meaningful visit. I hope that you can make many fond memories during your stay here. Thank you.

Won-Soon Park
Mayor of Seoul, Republic of Korea
ICLEI President



2016 기후변화 대응 세계도시 시장포럼 참석을 위해 서울을 방문한 여러분을 환영합니다.

서울은 현재 1,000만명 이상의 관광객이 즐겨 찾는 매력의 도시이자 빛으로 불이 꺼지지 않는 활력의 도시입니다. 또한, 2,000년 가까이 지속되어 온 역사문화의 도시이며 수려한 산이 둘러싸고 도도히 흐르는 강을 끼고 있는 아름다운 도시입니다.

서울시민은 아름다운 서울의 지속가능한 발전을 위해서 많은 노력을 기울이고 있습니다. 특히, '원전하나줄이기' 사업을 통해 1년 2개월 만에 200만 TOE의 에너지 사용량을 줄이는 성과를 얻었습니다. 이 성과를 바탕으로 현재 원전 2기 분량의 400만 TOE를 줄이기 위한 2단계 사업을 추진하고 있습니다.

저는 이번 포럼을 통해 서울의 경험을 세계와 나누고, 세계의 실천사례 등을 배우고 공유함으로써 지난번 파리에서 합의된 기후변화 대응 목표를 달성해 가는 초석이 될 수 있다고 생각합니다. 즉, 온실가스의 80% 이상을 배출하는 도시들이 서로 힘을 합치고 실천해 나갈 때 우리의 미래가 지속 가능해 질 것이라 생각합니다.

이런 의미에서 이번 시장포럼은 전 세계 지방정부 리더들이 중앙정부가 가지고 있는 한계를 극복하고 기후변화에 대응하는 보다 실질적이고 가시적인 변화를 만들어 가는 좋은 기회가 될 것입니다.

서울을 찾아주신 여러분께 다시 한번 환영과 감사의 인사를 드리며, 서울에 머무시는 동안 편안하고 즐거운 시간 되시길 바랍니다.

천만 서울시민의 따뜻한 사람과 서울에 대한 아름다운 기억을 안고 가실 수 있기를 희망합니다.

감사합니다.

박 원 순
서울시장
이글레이 회장

Invitation Message



Dear Mayors and Colleagues,

It is an honor to welcome you to the Seoul Mayors Forum on Climate Change. ICLEI - Local Governments for Sustainability works proudly under the leadership of our President, Mayor Park Won Soon of Seoul, and we are delighted to join him in convening this group of visionary local leaders.

The Seoul Mayors Forum comes at a unique and pivotal point in time. Nearly one year has passed since nations agreed on the Sustainable Development Goals and reached consensus on the historic Paris Agreement at COP21. We are now approaching the next convening of nations around climate at COP22 in Marrakech, and in parallel, preparations are underway to establish a New Urban Agenda at Habitat III in Quito.

These developments mean that the global sustainability landscape is quickly changing and focusing particularly on how to take bold steps towards implementation. Yet it is not just the negotiating nations that have an essential role in delivering on global commitments.

The Paris Agreement establishes a clear goal: to keep the global temperature rise well below 2 degrees Celsius. However, national commitments fall short of this target by 14 gigatons of CO₂ equivalent. This puts the world on track towards a global temperature rise of around 3 degrees Celsius by the end of the century.

Now is the time for local leaders to show how they can and will contribute to closing this gap; and many already are. Thousands of cities from around the world demonstrate their commitments to fight and adapt to climate change through the Compact of Mayors and the European Covenant of Mayors, which recently joined forces to create the Global Covenant of Mayors for Climate & Energy. The 7,100 cities in this coalition are committed to transparent and ambitious climate action, and can help move the world towards the 2-degree target as the coalition continues to grow.

This week in Seoul, we will celebrate the major accomplishments of cities and look towards the road ahead, in which visionary local leadership will be the linchpin of a climate-safe, resilient and sustainable future.

Thank you for joining us and for building a vision that places cities are at the center of positive, sustainable global change.

Sincerely,

Gino Van Begin

Secretary General of ICLEI - Local Governments for Sustainability

모시는 글



존경하는 여러 사장님 그리고 내외구빈 여러분,

2016 기후변화 대응 세계도시 시장포럼을 함께하게 되어 영광입니다. 지속가능 발전을 위한 지방정부 네트워크인 국제자치단체환경협의회, 이글레이(ICLEI)는 박원순 시장님의 리더십 하에 자부심을 갖고 본 회의를 준비 하였습니다. 높은 비전을 가진 지역 지도자 여러분을 모시는 이 자리에 박원순 시장님과 함께하게 되어 매우 기쁘게 생각 합니다.

2016 기후변화 대응 세계도시 시장포럼은 매우 특별하고 중요한 시기에 개최됩니다. 즉, 지속가능발전목표(SDGs) 및 유엔기후변화 당사국총회(COP21)에서 역사적인 파리협정(Paris Agreement)에 합의한지 거의 일년이 경과하였습니다. 이제 기후 변화 논의를 위한 다음모임인 유엔 기후변화 당사국 총회(COP22)가 모로코에서 개최될 예정이며, 이와 동시에 애콰도르의 키토에서 개최될 유엔 해비타트 III 회의에서 새로운 도시의제(New Urban Agenda)를 수립하기 위해 준비하고 있습니다.

이런 진전상황은 지속가능성 관련 글로벌 전망이 빠르게 변하고 있으며, 과감한 실행방법 모색을 위해 노력을 집중하고 있다는 것을 의미합니다. 그러나 이러한 글로벌 의지 실행을 위한 중요한 역할이 항상 당사국에만 국한된 것은 아닙니다.

파리 협정은 명확한 목표를 설정하고 있습니다. 즉, 글로벌 온도상승을 섭씨 2도 이내로 제한하는 것입니다. 그러나 국가들이 약속한 양은 목표치 보다 14기가톤 이산화탄소 환산량(CO₂ equivalent.)이 부족합니다. 이 추세라면 21세기가 끝나는 시점에는 지구온도가 대략 섭씨 3도 상승할 것입니다.

이제 지방정부 지도자들은 이런 간극을 메울 수 있는 방법을 모색해야 하며, 많은 지도자들이 이미 노력하고 있습니다. 전세계 수천 개 도시가 시장협약(Compact of Mayors) 및 유럽 시장서약(European Covenant of Mayors)을 통해 기후변화 대응 및 적응에 대한 의지를 보여주고 있으며, 최근에는 기후 및 에너지 세계 시장서약(Global Covenant of Mayors for Climate & Energy)을 창설하기 위해 힘을 모으고 있습니다. 이를 위해 7,100개 도시가 투명하고 야심찬 기후변화행동을 약속했으며, 이런 정부연합의 지속적 성장은 온도상승을 2도 이내로 제한하는 목표에 더욱 가까워지는데 도움이 될 것입니다.

이번 주, 우리는 서울에서 도시들의 주요성과를 기념하고 향후 발전방향을 모색할 것입니다. 지방정부 지도자 여러분의 비전은 기후변화로부터 안전하고 화복력 있는 지속가능 미래를 만드는 핵심이 될 것입니다.

긍정적이고 지속 가능한 글로벌 변화의 중심에서 비전을 수립하는 도시 관계자 여러분께 감사 드립니다. 오늘 친석해 주셔서 감사 합니다.

지노 반 베긴(Gino Van Begin)
이글레이 사무총장



September 1 (Thursday), 2016

Opening Session, Mayoral Session I, II, III, Luncheon, Dinner

Date	Program
09:00	Registration and Networking
10:00-11:00 Opening Session	Welcome Greetings and Keynote Speech Welcome Remarks Won-Soon Park, Mayor, Seoul Metropolitan Government, Republic of Korea and ICLEI President Jun-Ik Yang, Chairman, Seoul Metropolitan Council, Republic of Korea Keynote Speech: The IPCC: Science Enabling the Policy Response to the Paris Agreement Hoosung Lee, Chair, Intergovernmental Panel on Climate Change (IPCC) Keynote Speech: Why Cities and Local Governments are Important in Tackling Climate Change, Achieving Sustainable Development Sir David King, permanent Special Representative for Climate Change of the UK Group Photo
11:00-12:00 Mayoral Session I	Cities implementing climate actions Facilitator: Gino Van Begin, Secretary General, ICLEI- Local Governments for Sustainability Update on the merger of the Compact of Mayors and the Covenant of Mayors Amanda Eichel, Compact of Mayors Secretariat Keynote presentation - Seoul's best practice Won-Soon Park, Mayor, Seoul Metropolitan Government, Republic of Korea and ICLEI President Local climate action - discussion with mayors Dibra Kurni, Mayor, Addis Ababa City Council, Ethiopia Yu-Ih Hou, Deputy Mayor, New Taipei City Government, Chinese Taipei Hongwei Yang, Head, Alliance of Peaking Pioneer Cities (APPC) Secretariat Discussion with the mayors on Stage
12:00-14:00	Luncheon
14:00-15:20 Mayoral Session II	Implementation of global agreements - What can cities and local governments do? Facilitator: Bernadina Iravati Tjandradewi, Secretary General, UCLG-ASPAC European Commission's view on role of cities in the transition to a low-carbon economy Paolo Cardi, Chargé d'Affaires a.i., Delegation of the European Union to the Republic of Korea Unpacking the New Urban Agenda Robert Kelewe, Leader, Climate Change Planning Unit, UN-Habitat Local climate actions - discussion with mayors Stephany Uy-Tan, Mayor, City of Cebu, Philippines Je Jong-Beel, Mayor, Ansan City, Republic of Korea Abby Binay, Mayor, City of Makati, Philippines Taiyong Zhong, Vice Mayor, Guyang Municipal People's Government, People's Republic of China Yi-Ying Lin, Deputy Mayor, Taichung City Government, Chinese Taipei Namgay Tshearing, Deputy Mayor, City of Thimphu, Bhutan Discussion with the floor
15:20-15:40	Networking Break
15:40-17:00 Mayoral Session III	Towards Low Emission and Resilient Development Facilitator: Meryke van Staden, Director of the Bonn Center for Local Climate Action and Reporting (karbon Center), ICLEI Approaches and Partnership for Low Carbon Emissions Kilaparti Ramakrishna, Head/Director of UN ESCAP East and North East Asia Office Local climate actions - discussion with mayors Dr. Neni Moerniaeni, Sp.OG Mayor, Bontang City, Indonesia Steve Skadron, Mayor, City of Aspen, USA Lee Soon-sun, Governor, Inje County Government, Republic of Korea Chin-de Chen, Deputy Mayor, Kaohsiung City Government, Chinese Taipei Wengqiao Zhao, Vice Mayor, Guangyuan City, People's Republic of China Discussion with the floor
18:00	Dinner



2016년 9월 1일 (목)

개막식, 시장세션 I, II, III, 비공개 세션, 오찬, 만찬

일시	프로그램
09:00-10:00	등록 및 네트워킹
10:00-11:00 개막식	환경인사 및 기조연설 환영사 박원순 서울시장 양준욱 서울시의회 의장 기조연설 1 IPCC: 과학적 대응을 위한 과학적 접근 이희성 IPCC 의장 기조연설: 기후변화 대응과 지속 가능한 발전에서 도시 및 지방정부가 중요한 이유 데이비드 킹 영국 기후변화특사 기념사진
11:00-12:00 시장세션 I	기후변화 대응을 실천하는 도시 파실리레이터: 지노 반 베긴 ICLEI 사무총장 기조발표 글로벌 시장서학 혼합 일레이트 아만다 마이엘 시장협의 사무국 대표 서울시 기후변화대응 우수사례 박원순 서울시장 도시 발표 데리비 쿠마 아디스아비바(에티오피아) 시장 우-이 후 뉴타이페이(대만) 부시장 홍위이 양 APPC 대표 토론
12:00-14:00 오찬	파리협정 이행기반 마련을 위한 도시의 역할 파실리레이터: 베나디아 미라와티 UCLG-ASPAC 사무총장 기조발표 자린스 경제로의 전환 과정에서 도시의 역할에 대한 유럽위원회의 관점 파울로 카리다 주한 대표부 새로운 도시의제 페미하기 로버트 큐 UNEP비타드 기후변화 계획팀장 도시 발표 스테파니 퀴-탄 칸발로(필리핀) 시장 제롬길 안산 시장 해비 베나야 마카티(필리핀) 시장 타이중 종 구이양(중국) 부시장 이-임 퀸 타이중(대만) 부시장 낭카이 체령 들판(부탄) 부시장 토론
15:20-15:40 휴식	
15:40-17:00 시장세션 III (100%RE 네트워크)	저탄소 회복력 있는 발전 추진 파실리레이터: 마리아케 반 스티든 ICLEI 저탄소프로그램팀장 기조발표 저탄소 배출을 위한 접근 및 파트너십 힐러파트리 라미크리쉬나 UNESCAP 동북아사무소 대표 도시 발표 네이 모에르니애니 본탕(인도네시아) 시장 스티브 스캐튼 이스랜드(미국) 시장 이순선 인제군수 한-미 현 기오승(대만) 부시장 정차오 저오 광위안(중국) 부시장 토론
18:00 만찬	



September 2 (Friday), 2016

Mayoral Second Annual Summit: GLCN, Interactive interview round, Outlook Session, Site Visit, Special Session

Date	Program	
09:00	Registration and Networking	
09:30-10:50	Mayoral Second Annual Summit: GLCN <ul style="list-style-type: none"> Global Lead City Network on Sustainable Procurement(GLCN) Facilitator: Gino Van Begin, Secretary General, ICLEI-Local Governments for Sustainability Welcome from the chair Vice Mayor Gyeonggi Ryu on behalf of Mayor Won-Soo Park, Seoul Metropolitan Government and Chair of GLCN Introduction to the Network Mark Hidson, Global Director, ICLEI Sustainable Procurement Centre Linking global sustainable procurement initiatives Mervyn Van Vooren, Coordinator of UN Environment's post-Paris Conference of the Parties' priorities, UNEP The power of sustainable procurement Ju-Hyun Cho, Director of Sustainable Lifestyle Office, Korea Environmental Industry & Technology Institute (KEITI) Commitments and achievements of the cities Jaeryong Ryu, Assistant Mayor, Seoul Metropolitan Government, Republic of Korea Michał Olszowski, Deputy Mayor, City of Warsaw, Poland Joy Belmonte, Deputy Mayor, City of Guzon, Philippines Johannes van der Merwe, Councillor, Cape Town Metropolitan Council, South Africa Roger Lachance, Director of Department of Environment, City of Montréal, Canada Perttu Pohjonen, Special Envoy of Deputy Mayor Pekka Saari, City of Helsinki, Finland Peter Szegvari, Senior Advisor to the Lord Mayor, Capital City of Budapest, Hungary Len Brown, Mayor, Auckland, New Zealand via video message 	09:00 Registration and Networking Global Lead City Network on Sustainable Procurement(GLCN) Facilitator: Gino Van Begin, Secretary General, ICLEI-Local Governments for Sustainability Welcome from the chair Vice Mayor Gyeonggi Ryu on behalf of Mayor Won-Soo Park, Seoul Metropolitan Government and Chair of GLCN Introduction to the Network Mark Hidson, Global Director, ICLEI Sustainable Procurement Centre Linking global sustainable procurement initiatives Mervyn Van Vooren, Coordinator of UN Environment's post-Paris Conference of the Parties' priorities, UNEP The power of sustainable procurement Ju-Hyun Cho, Director of Sustainable Lifestyle Office, Korea Environmental Industry & Technology Institute (KEITI) Commitments and achievements of the cities Jaeryong Ryu, Assistant Mayor, Seoul Metropolitan Government, Republic of Korea Michał Olszowski, Deputy Mayor, City of Warsaw, Poland Joy Belmonte, Deputy Mayor, City of Guzon, Philippines Johannes van der Merwe, Councillor, Cape Town Metropolitan Council, South Africa Roger Lachance, Director of Department of Environment, City of Montréal, Canada Perttu Pohjonen, Special Envoy of Deputy Mayor Pekka Saari, City of Helsinki, Finland Peter Szegvari, Senior Advisor to the Lord Mayor, Capital City of Budapest, Hungary Len Brown, Mayor, Auckland, New Zealand via video message
10:50-11:00	Networking Break	
11:00-12:20	Interactive interview round <ul style="list-style-type: none"> Financing Local Action Facilitator: Carlos de Freitas, Cities Climate Finance Leadership Alliance (CCFLA) Secretariat; Director of Programs of FMDV - Global Fund for Cities Development Closing the financial gap through international funding Carlos de Freitas, Cities Climate Finance Leadership Alliance (CCFLA) Secretariat; Director of Programs of FMDV - Global Fund for Cities Development Challenges and opportunities for financing local climate actions Tri Rismaharini, Mayor, Surabaya Metropolitan City, Indonesia Noel Rosal, Mayor of Legazpi City, Philippines; Focal Mayor of Environment, Climate Change and Disaster Risk Reduction and Management of League of Cities of the Philippines Diego Enriquez, Municipality of the Metropolitan District of Quito, Ecuador Jianlong Xu, Deputy Head/Vice Mayor, Gui'an New Area, People's Republic of China Leyla Hussein Madibi, Councillor, Dar es Salaam, Tanzania Discussion with the floor 	09:30-10:50 GLCN 2차총회 09:00 지속가능 공공구매를 위한 글로벌 선도도시 네트워크 2차총회 파실리테이터: 지노 반 베긴(ICLEI) 참여자: 류경기 서울(GLCN 의장도시) 행정부시장 GLCN 소장: 마크 힐드슨 ICLEI 유럽본부 국장 기조발표: 세계 지속가능한 조달 이니셔티브 연계 멜린 반 부어 UNEP 포스트-파리 당사국 코디네이터 기조발표: 지속가능한 조달의 힘 조주현 KETI 친환경성장을 실장 도시 발표 유재룡 서울(GLCN 의장도시) 기후환경부부장 마이클 올스즈워스키 대표(플란드) 부시장 조이 벨론트 세존(필리핀) 부시장 요한 반 더 벨위 케이프타운(남아공) 시의원 로저 라킨스 몬트리올(캐나다) 국장 페루 포호넨 헬싱키(핀란드) 부시장 특사 피터 제그바리 구다라스탄(헝가리) 시장 자문 렌 브라운 오클랜드(뉴질랜드) 시장 영상발표
12:20-12:30	Networking Break	
12:30-13:00	Outlook Session <ul style="list-style-type: none"> Mayors Route Towards Habitat III and COP22 Summary of Key Discussions Presentation of Seoul Communiqué Won-Soo Park, Mayor, Seoul Metropolitan Government, Republic of Korea and ICLEI President 	10:50-11:00 휴식 11:00-12:20 인터뷰 세션 09:00 지방정부 기후행동 재정 마련 파실리테이터: 카를로스 디 프레이터스 CCFLA 사무국 프로그램팀장 기관 소개: 국제적 협동을 통한 재정적 지원 즐이기 카를로스 디 프레이터스 CCFLA 사무국 프로그램팀장 필립 클락 GCF 원화 및 적응 담당 도시와의 대화 드리 리마하라이나 수리비야(인도네시아) 시장 노엘 로잘 레가즈피(필리핀) 시장 디에고 엔리케스 기도(에콰도르) 환경과장 지안동 수 귀안신구(중국) 국장 레일라 후세인 마디비 다르에스살람(坦자니아) 시의원 보든 맷 카드우드
13:00-15:00	Luncheon	
15:00-17:00	Special Session <ul style="list-style-type: none"> ICLEI Korea Office session program (Venue: 8th floor, Multipurpose Room, Seoul City Hall) 	12:20-12:30 휴식 12:30-13:00 마무리세션 09:00 해비타트III와 COP22로 가는 길 세션 모의 발표 신기후체제를 위한 서울성명서 발표 박원순 서울시장
15:00-18:00	Special Session <ul style="list-style-type: none"> Low-carbon and climate workshop for Chinese cities (Venue: 8th floor Meeting Room, Seoul City Hall) 	13:00-15:00 오찬 15:00-17:00 특별세션 09:00 국내 기후변화 대응 특별세션(ICLEI) 한국사무소 장소: 다목적홀 중국도시 특별세션(ICLEI) 동아시아 본부 장소: 8층 공동회의실
15:00	Site Visit (Venue: Changdeokgung (palace) and Seoul Donghwamun Traditional Theater)	



2016년 9월 2일 (금)

GLCN 2차총회, 인터뷰 세션, 마무리세션, 오찬, 특별세션, 현장투어

일시	프로그램
09:00	등록 및 네트워킹
09:30-10:50	GLCN 2차총회 09:00 지속가능 공공구매를 위한 글로벌 선도도시 네트워크 2차총회 파실리테이터: 지노 반 베긴(ICLEI) 참여자: 류경기 서울(GLCN 의장도시) 행정부시장 GLCN 소장: 마크 힐드슨 ICLEI 유럽본부 국장 기조발표: 세계 지속가능한 조달 이니셔티브 연계 멜린 반 부어 UNEP 포스트-파리 당사국 코디네이터 기조발표: 지속가능한 조달의 힘 조주현 KETI 친환경성장을 실장 도시 발표 유재룡 서울(GLCN 의장도시) 기후환경부부장 마이클 올스즈워스키 대표(플란드) 부시장 조이 벨론트 세존(필리핀) 부시장 요한 반 더 벨위 케이프타운(남아공) 시의원 로저 라킨스 몬트리올(캐나다) 국장 페루 포호넨 헬싱키(핀란드) 부시장 특사 피터 제그바리 구다라스탄(헝가리) 시장 자문 렌 브라운 오클랜드(뉴질랜드) 시장 영상발표
10:50-11:00	휴식
11:00-12:20	인터뷰 세션 09:00 지방정부 기후행동 재정 마련 파실리테이터: 카를로스 디 프레이터스 CCFLA 사무국 프로그램팀장 기관 소개: 국제적 협동을 통한 재정적 지원 즐이기 카를로스 디 프레이터스 CCFLA 사무국 프로그램팀장 필립 클락 GCF 원화 및 적응 담당 도시와의 대화 드리 리마하라이나 수리비야(인도네시아) 시장 노엘 로잘 레가즈피(필리핀) 시장 디에고 엔리케스 기도(에콰도르) 환경과장 지안동 수 귀안신구(중국) 국장 레일라 후세인 마디비 다르에스살람(坦자니아) 시의원 보든 맷 카드우드
12:20-12:30	휴식
12:30-13:00	마무리세션 09:00 해비타트III와 COP22로 가는 길 세션 모의 발표 신기후체제를 위한 서울성명서 발표 박원순 서울시장
13:00-15:00	오찬
15:00-17:00	특별세션 09:00 국내 기후변화 대응 특별세션(ICLEI) 한국사무소 장소: 다목적홀 중국도시 특별세션(ICLEI) 동아시아 본부 장소: 8층 공동회의실
15:00	현장투어 (창덕궁 및 서울문화재국악당)



ICLEI Korea Session

- September 2 [Fri] 15:00-17:00
- (Venue: 8th floor, Multipurpose Room, Seoul City Hall)

Date	Program
ICLEI Korea Office session programme (Korean-English Simultaneous translation provided)	
15:00-15:10	Opening Address YeonHee Park, Director of ICLEI Korea Office Welcome Remarks Eun Hee Sung, Director General of Environment and Energy
15:10-15:30	Global trend in local governments actions against climate change Maryke Van Staden, ICLEI World Secretariat <ul style="list-style-type: none"> - Brief introduction of global trend with focus on increasing role of local governments - How have cities across the world demonstrated leadership on climate action? (Compact of Mayors) - How do we achieve transparency and accountability of local climate actions? (cCR) - How are we able to have our MRV way of GHG emission calculation internationally standardized and approved? (GPC) - Best practices amongst cities where overcome barriers and applied GPC through Compact of Mayors and cCR
15:30-15:40	Progress of local governments climate actions in Korea Hana Kim, ICLEI Korea Office <ul style="list-style-type: none"> - How have Korean local governments responded to climate actions? (Compact of Mayors, cCR, GPC)
15:40-16:00	Introduction of Korean MRV and GPC JinHo Choi, KECO <ul style="list-style-type: none"> - How does Korean local governments calculate GHG emissions? - Comparison between the Korean MRV and cCR/GPC
16:00-16:30	Best practices amongst Korean local governments Panel Discussion The Way forward <ul style="list-style-type: none"> - What barriers have Korean local governments faced? - What will be innovative solutions to tackle barriers? Facilitator YeonHee Park, ICLEI Korea Office Panel Maryke Van Staden (ICLEI World Secretariat) Jongik Yoo (Research Institute for Gangwon) JeeUn Hwang (KECO)
16:55-17:00	Closing



국내 기후변화 대응 특별세션

- 9월 2[금] 15:00-17:00
- (장소: 다목적홀)

일시	프로그램
국내 기후변화 대응 특별세션(ICLEI 한국사무소) (한-영 품시통역 제공)	
15:00-15:10	개회사 박연희 이글레이 한국사무소장 환영사 성운희 서울시 환경에너지 기획관
15:10-15:30	세계 지방정부 기후변화대응 동향 머라이에 반 스테든 마클레이 세계본부 <ul style="list-style-type: none"> - 기후변화대응에 있어 지방정부의 역할을 강조하는 국제적 흐름 소개 - 세계지방정부는 어떻게 기후변화에 대응하고 있는가? (시장협약) - 지역의 온실가스 배출량과 이의 감축성과를 공개 공유하는 국제 온라인 플랫폼이 있는가? (cCR:carbon Climate Registry) - 각 국가 및 지역의 다양한 온실가스 배출량 산정방식을 국제적으로 인정하고 표준화하는 기준이 있는가? (GPC) - 세계 여타의 도시는 어떻게 국제적 기준을 지역의 실정에 맞게 적용하는가?
15:30-15:40	국내 지방정부 기후변화대응 성과 김하나 이글레이 한국사무소 <ul style="list-style-type: none"> - 국내 지방정부는 국제적 기후변화대응 흐름에 어떻게 대응하고 있는가? (시장협약, cCR, GPC 성과)
15:40-16:00	국내 온실가스 배출량 산정방식과 다양한 온실가스 배출량 산정방식을 국제적으로 인정하고 표준화하는 기준(GPC) 소개 최진호 한국 환경공단 <ul style="list-style-type: none"> - 우리나라의 온실가스 배출량을 산정하고 있는가? - 국제 온라인 플랫폼(cCR)과 공동체 및 차이점은 무엇인가? - 국제적 표준화 기준(GPC)과 공동체 및 차이점은 무엇인가?
16:00-16:30	국내 지방정부의 선도적 사례 공유 <ul style="list-style-type: none"> - 국내 지방정부는 어떻게 국제적 기준을 지역의 실정에 맞게 적용하고 있는가?
16:30-16:55	페널토론 국내 지방정부 기후변화대응 활동 강화 방안 모색 <ul style="list-style-type: none"> - 우리나라 지방정부가 당면한 어려움은 무엇인가? - 당면한 어려움을 해결하기 위한 혁신적 방안은 무엇인가? 좌장 박연희 소장(이글레이 한국사무소) 폐막 머라이에 반 스테든(이글레이 세계본부) 유종익 박사(강원발전연구원) 황재운 과장(한국 환경공단)
16:55-17:00	총괄 정리

Opening Session | 개막식



Keynote Speech | 기조연설

Hoesung Lee

Chair, Intergovernmental Panel on Climate Change (IPCC)

이회성

IPCC 의장

Dr. Hoesung Lee is Chair of the Intergovernmental Panel on Climate Change (IPCC), elected since October 2015, and Endowed Chair Professor at Korea University Graduate School of Energy and Environment, Seoul, Korea. His research encompasses the economics of climate change, energy and sustainable development. He is a member of the Board of Directors of the Korean Academy of Environmental Sciences, council member of the Global Green Growth Institute, and a member of the Asian Development Bank President's Advisory Board on Climate Change and Sustainable Development. Lee was the founding president of the Korea Energy Economics Institute -- a government agency for national energy policy development. He was Distinguished Research Fellow at the Korea Environment Institute, senior adviser to the Minister of Energy and Resources and the Minister of Environment, senior fellow at the Korea Development Institute and economist at Exxon Company USA. He served as the president of the International Association for Energy Economics, president of the Korea Resources Economics Association, member of the International Advisory Board of the Battelle-Pacific Northwest National Lab, USA, the Board of Directors of Hyundai Corporation and the Institute for Global Environmental Strategies, Japan. He was Co-Chair of the IPCC Working Group III (the socio-economic dimensions of climate change) for the Second Assessment which provided a scientific basis for the UNFCCC's Kyoto Protocol. He served as Vice-Chair of IPCC 2008-2015, and lead author and review editor for the various IPCC assessments. He has served on many national and international committees addressing climate change and energy. He received his B.A. from Seoul National University and Ph.D. in economics from Rutgers University, USA.

이회성 박사는 기후변화에 관한 정부 간 협의체(IPCC)의 의장으로 2015년 10월 선출되었으며, 고려대학교 에너지환경정책기술팍대학원의 석좌교수로 재직 중이다. 기후변화의 경제학을 비롯하여 에너지, 지속가능발전에 이르기까지 다양한 분야를 연구해온 이회성 박사는 한국환경학회원 이사, 글로벌녹색성장기구(GGGI) 자문위원을 맡고 있으며, 아시아개발은행(ADB)의 총재자문위원으로서 기후변화 및 지속가능발전과 관련한 조언을 제공하고 있다. 국가 에너지정책 수립을 위한 정부연구기관인 에너지경제연구원의 초대원장을 자셨으며, 한국환경정책평가연구원 석좌연구위원, 동력자원부 및 환경부 장관 수석고문, 한국개발연구원 수석연구원, 미국 Exxon Company의 이코노미스트로 근무한 바 있다. 세계에너지경제학회 회장, 한국자원경제학회 회장, 미국 바텔 퍼시픽 노스웨스트 국립연구소(The Battelle-Pacific Northwest National Lab) 국제자문위원, 한미중합상사 이사, 일본 자구환경전략연구기관(GESI) 이사로도 활동하였다. 유엔기후변화협약 교토의정서의 과학적 근거를 제시한 IPCC 제 2차 평가에서 제3실무그룹(사회경제 분야) 공동의장을 역임하였다. 2008년부터 2015년까지 IPCC 부의장을 역임했으며, IPCC 평가 편집 주 저자 및 검토편집인으로 수 차례 참여하였다. 그 외에도 기후변화 및 에너지 관련 국내외 위원회에서 활발한 활동을 펼쳐왔다. 이회성 박사는 서울대학교 무역학과를 졸업하고 미국 러거스(Rutgers)대학교에서 경제학 박사학위를 받았다.

Opening Session | 개막식



Keynote Speech | 기조연설

Sir David King

Permanent Special Representative for Climate Change of the UK

데이비드 킹

영국 기후변화특사

Professor Sir David King was appointed as the UK Foreign Secretary's Special Representative for Climate Change in September 2013. Sir David was previously the Government's Chief Scientific Advisor from 2000 – 2007, during which time he raised awareness of the need for governments to act on climate change and was instrumental in creating the Energy Technologies Institute. He also served as the Founding Director of the Smith School of Enterprise and Environment at Oxford, 2008 – 2012. Some of his other appointments have included the Chair of Future Cities Catapult, Chancellor of the University of Liverpool, Senior Scientific Advisor to UBS, and Adviser to President Kagame of Rwanda. His discipline is in physical chemistry working in surface science and catalysis. He has published over 500 papers on surface science and heterogeneous catalysis, and on science and policy, for which he has received many awards and medals. He has received 23 Honorary Degrees from universities around the world. Elected Fellow of the Royal Society in 1991; Foreign Fellow of the American Academy of Arts and Sciences In 2002; knighted in 2003; and made "Officier dans l'ordre national de la Légion d'Honneur" in 2009.

데이비드 킹 경은 2013년 9월 영국 외무부의 기후변화 특사로 임명되었다. 데이비드 킹 경은 특사로 임명되기 전인 2000년부터 2007년까지 영국 정부의 수석 과학고문으로 활동하는 동안 정부가 기후변화 대응에 적극적으로 나서야 한다며 정부 역할의 필요성을 알렸고, 영국 에너지기술연구소(ETI)를 설립하는데도 중요한 역할을 하였다. 2008년부터 2012년까지 옥스퍼드 대학교 스미스기업환경대학원(Smith School of Enterprise and Environment)의 초대원장을 역임하였으며, 퓨처 시티즈 캐터펄트(Future Cities Catapult) 의장, 리버풀 대학교 총장, UBS 수석과학고문, 루완다의 폴 카가메(Paul Kagame) 대통령 고문 등을 거쳤다. 물리과학에서 표면과학과 촉매작용을 주요 연구분야로 삼아온 데이비드 킹 경은 표면과학, 물질임체작용, 과학정책과 관련한 500여편 이상의 논문을 발표해 다수의 상을 수상하였다. 전 세계 23개의 대학교로부터 명예학위를 받았다. 1991년에는 영국 왕립협회 회원, 2002년에는 미국예술과학아카데미(American Academy of Arts and Sciences)의 외국인 연구원(foreign fellow)으로 활동하였으며, 2003년 영국 여왕으로부터 기사 작위를 받았다. 2009년에는 프랑스 정부로부터 레지옹 도뇌르 오마사에 훈장(Officier dans l'ordre national de la Légion d'Honneur)을 수여 받았다.

Mayoral Session I | 시장세션 I



Facilitator | 퍼실리테이터

Gino Van Begin

Secretary General, ICLEI- Local Governments for Sustainability

지노 반 베긴

ICLEI 사무총장

Having served as ICLEI Regional Director for Europe since 2002 and as Deputy Secretary General since 2007, he brings to his position a wealth of experience in coordinating and leading international institutions and organizations across different aspects of sustainable urban development.

Gino has consistently and comprehensively worked over the last 12 years towards ensuring ICLEI's quality as a responsible, professional, non for profit, local government organization in Europe and worldwide.

He has been ICLEI's Chief Negotiator on local climate actions and was instrumental in organizing various major events, such as the European Sustainable Cities and Towns Conferences which have grown to become the major sustainability rendezvous for local governments in Europe.

Gino was also a member of the EU Expert Group to the European Commission on the Urban Environment from 2003-2006, and is a member of the European Commission's Jury on the European Green Capital.

Gino's vision is to extend this excellent leadership to ICLEI on a global level.

He says, "ICLEI with its multi-facets and various functions, as developed by our two former Secretary Generals, is set to play important roles at all levels. As the Secretary General, I am thrilled to contribute my energy, intellectual capacities, diplomacy and perseverance to take this mission-driven organization to the next stages of ambition."

Before joining ICLEI in 2000, Gino worked as advisor and as Team Leader at the EU-funded Environmental Centres for Administration and Technology in Kaliningrad and St. Petersburg, Russia for seven years.

From 1987 to 1993, he was a legal advisor at the European Commission's DG Environment, General Secretariat and DG External relations. He also worked at the Cabinet of the Vice-President of the Government of Flanders and Minister of Economy, Small Business and Energy.

Trained as a lawyer from the University of Brussels, Gino speaks Dutch, French, English, German and Russian.

지노 반 베긴은 2002년부터 ICLEI(ICLEI)의 유럽본부장, 2007년부터 사무총장으로 근무하였다. 그는 지속가능한 도시개발(Sustainable urban development)에 대한 여러 국제기구와 연구소의 각기 다른 관점을 조율하여 ICLEI는 자신의 현장 경험을 ICLEI 업무에 적극 활용하여왔다.

그는 업무의 질을 향상시킴으로써 ICLEI가 유럽 및 세계의 지방정부 네트워크로서의 책임감 있고 전문적인 비영리 조직으로 성장할 수 있도록 지난 12년간 꾸준하고 광범위한 노력을 기울여왔다.

그는 지역 기후변화행동 관련 ICLEI 수석협상자(chief negotiator)로 활동해왔으며 지속가능 개발 논의를 위한 유럽 지방정부 관계자들의 만남의 장인 돈 도시·마을 컨퍼런스(European Sustainable Cities and Towns Conferences) 등 여러 규모의 행사의 조직에 중요한 역할을 하였다.

베긴 사무총장은 2003년부터 2006년까지 유럽연합집행위원회(European Commission) 도시환경 전문가 그룹의 위원으로 활동한 바 있으며, 현재 유럽연합집행위원회(EC) 녹색수도상(the European Green Capital Award) 선정 실무위원으로 활동하고 있다.

베긴 사무총장은 자신의 입기 동안 탁월한 리더십을 발휘하여 ICLEI가 전 세계적으로 뻗어나가도록 힘겠다는 비전을 가지고 있다.

베긴 사무총장은 "두 전임 사무총장 덕분에 ICLEI는 제 역할과 기능을 확립할 수 있었다. 앞으로 모든 방면에서 더 중요한 역할을 할 수 있으리라고 본다. 사무총장으로서 ICLEI와 함께 목표를 향해 달려간다고 생각하니 굉장히 기대된다. 나의 모든 에너지와 지식, 외교력, 인내심을 발휘하여 ICLEI가 한 단계 더 도약 할 수 있도록 최선을 다하겠다."라고 말하였다.

베긴 사무총장은 2000년 ICLEI에 합류하였다. 그는 ICLEI에 합류하기 전에 러시아 칼리닌그라드와 상트페테르부르크에 위치한 EU 환경연구기관인 환경 행정 및 기술센터(Environmental Centres for Administration and Technology)에서 7년간 근무하였다.

그는 1987년부터 1993년까지 유럽연합집행위원회 환경총국, 사무국, 대외관계총국에서 법률고문으로 재직하였다. 또한 벨기에 플란더스(Flanders) 지방정부의 차관실 씬기메 경제·증소기업·에너지부 장관실에서도 재직한 바 있다.

그는 브뤼셀 대학교 로스쿨에서 법학 석사학위를 받았으며, 5개 국어(네덜란드어, 프랑스어, 영어, 독일어, 러시아어)를 구사한다.

Mayoral Session I | 시장세션 I



Keynote presentation | 기조발표

Won-Soon Park

Mayor, Seoul Metropolitan Government, Republic of Korea and ICLEI President

박원순

서울시장

Park Wonsoon was elected as the Mayor of Seoul in October 2011. He was reelected in June 2014 and began his second term. He continues to lead the Seoul Metropolitan Government through a leadership based on communication and innovation.

Before taking office as Mayor of Seoul, Park Wonsoon worked as a human rights lawyer and was at the very center of the democracy and human rights movement in Korea. He also worked as a civic activist and was at the forefront of the civic movement in Korea. He founded the Beautiful Foundation to spread a culture of philanthropy in Korea, and he founded the Hope Institute, a private think tank, to promote social innovation in Korea.

Referred to, by many people, as a "social designer," Park Wonsoon dedicated his entire life to bringing about a fresh change to old social norms and institutions.

His work was recognized worldwide in 2006, when he was awarded the Ramon Magsaysay Award, which is called the Nobel Peace Prize of Asia.

Park Wonsoon is the first ever civic activist to be elected as the Mayor of Seoul. Since his inauguration, he has set forth the slogan "the Citizens are the Mayor," and is pursuing collaborative governance and innovation with the citizens, and opening up a new future for Seoul with the citizens.

As Mayor, he realized the importance of going beyond national borders and strengthening city-to-city cooperation when striving to tackle the many different challenges that the world as a whole faces together. So he has assumed many leadership responsibilities in various organizations of cities around the world, such as ICLEI, an organization of cities to tackle climate change, WeGO, an organization of cities to promote e-government, GSEF, an organization of cities to find solutions to social problems through social economy, and CITYNET, an organization of cities and local governments in the Asia Pacific region.

He has written many books, including <NGO, Power of People can Change the World>, <The Sharing Habits of Successful People>, <Finding Hope in the Villages> and <How does Oliver cook the world?>

박원순은 2011년 대한민국 수도 서울특별시장에 당선되어 첫 번째 임기를 마치고, 2014년 재선이 되어 현재까지 소통과 혁신의 리더십으로 서울시장을 이끌고 있다.

인권변호사로 한국사회의 민주화와 민권운동의 중심에 서 있었고, 시민운동가로 활동하며 한국사회 시민운동 시대의 서막을 열었다. 기부재단을 설립해 나눔과 봉사라는 학문을 사회에 제시했고, 민간싱크탱크를 설립해 사회혁신을 주도했다. 소셜디자이너로 불리며 낡은 사회의식이나 제도를 바꾸는 데 평생을 바쳐왔다.

이런 그의 활동은 2006년 아시아의 노벨평화상이라 불리는 막사이시아상을 수상하면서 국제적으로 인정을 받았다. 시민운동가 출신으로는 처음으로 서울특별시장에 취임한 그는 협치와 혁신의 시정을 통해 "시민이 시장입니다"라는 가치를 실천해 가고 있고, 서울의 새로운 미래를 시민과 함께 열어가고 있다.

아울러 국가의 경계를 넘어서 도시 대 도시 간 협력의 중요성에 주목해 기후환경 분야 세계 최대 지구정부네트워크 ICLEI 회장, 세계도시간 전자정부 협의체 WeGo 의장, 사회적 혁신도시와 민간기관이 도시문제의 해법을 찾는 국제사회적경제협의체 GSEF 초대 의장, 아시아·태평양지역 지방자치단체 국제협의체 시티넷 CITYNET 회장 등 다양한 국제기구의 리더로 활동하며 지구촌 공동체가 적연한 세계 도시들의 도시문제 해결을 위해 앞장서고 있다.

"NGO, 시민의 힘이 세상을 바꾼다. 성공하는 사람들의 아름다운 습관 나눔." «풀라버는 어떻게 세상을 유통할까?» 「마을에서 희망을 만나다」 등 40여권의 저서가 있다.

Mayoral Session I | 시장세션 I



Keynote Presentation | 기조발표

Amanda Eichel

Compact of Mayors Secretariat

아만다 아이켈

시장협약 사무국 대표

Amanda Eichel serves as Special Advisor to Michael R. Bloomberg, former three-term mayor of New York and United Nations Secretary-General's Special Envoy for Cities and Climate Change. In this position she works with cities and city organizations globally to support ambitious urban action to combat global climate change with a particular focus on the Compact of Mayors and now the newly announced Global Covenant of Mayors for Climate and Energy. Amanda comes to Bloomberg Philanthropies by way of the C40 Cities Climate Leadership Group, where she served as Director of Regions, Initiatives and Events during Mayor Bloomberg's term as Chair. At C40 she led the organization's regional and programmatic teams and directed research and knowledge management efforts. Prior to joining C40, Amanda worked for Mayor Bloomberg's Office of Long-Term Planning and Sustainability, and served as Climate Protection Advisor to the Mayor of Seattle, Washington, under the administrations of Mayor Greg Nickels and Mayor Mike McGinn.

Amanda holds a Master of Environmental Science and Management degree from the University of California, Santa Barbara, and a Bachelor's degree from the Appalachian State University in her home state of North Carolina.

아만다 아이켈(Amanda Eichel)은 전 3선 뉴욕시장이자 UN 도시 및 기후변화 부문 특사(United Nations Secretary-General's Special Envoy for Cities and Climate Change)인 마이클 R. 블룸버그(Michael R. Bloomberg)의 특별고문(Special Advisor)이다. 특별고문으로서 아만다는 특히, '시장협약(Coalition of Mayors)', 이제는 새로 발표된 '글로벌 기후에너지 시장서약(Global Covenant of Mayors for Climate and Energy)'에도 주력하여, 세계기후변화에 대한 이심천 도시대응조치를 지원하기 위해 도시들 및 시단체들과 전 세계적으로 협력하고 있다. 아만다는 블룸버그 재단(Bloomberg Philanthropies)에 들어가기 이전, C40기후리더십그룹(C40 Cities Climate Leadership Group)에서 블룸버그 시장의 의장직을 수행하는 동안 지역 이니셔티브 및 행사 관리자(Director of Regions, Initiatives and Events)를 역임했다. C40에서 아만다는 지역 및 프로그램 팀을 이끌고 연구 및 지속관리 노력을 총괄했다. C40에 합류하기 전에는 블룸버그 시장의 장기계획 및 지속가능성 사무소(Office of Long-Term Planning and Sustainability)에서 근무했으며, 그렉 닉尔斯(Greg Nickels) 시장과 마이크 맥긴(Mike McGinn) 시장의 임기 동안 뮤심턴 시애틀 시장 기후보호고문(Climate Protection Advisor)을 지낸 바 있다.

아만다는 캘리포니아대학교 센타바버라 캠퍼스(University of California, Santa Barbara)에서 환경과학관리학(Environmental Science and Management) 석사 학위를, 고원인 노스캐롤라이나주에 있는 애말라치안주립대학교(Appalachian State University)에서 학사 학위를 취득했다.

Mayoral Session I | 시장세션 I



Local climate actions-discussion with mayors | 도시 발표

Diriba Kuma

Mayor, Addis Ababa City Council, Ethiopia

데리바 쿠마

아디스아바바시장(에티오피아) 시장

Educational background: BA in Economics : MA in Organizational Leadership

Experience:

1. 2000---2002 :Deputy Administrator of North Showa Zone; Oromia Regional State
2. 2002---2003 :Chief Administrator of West Harerge Zone, Oromia Regional State
3. 2003---2006 : Chief Administrator of North Showa Zone of Oromia Regional State
4. 2007---2009 : Head of Agriculture Bureau of Oromia Regional State
5. 2009---2010 : Minister of Communication and Transport
6. 2011---July 8, 2013: Minister of Transport

Political Career

7. Since 2006: Executive Member of the Ethiopian People Revolutionary Democratic Front (EPRDF), and the Oromo People's Democratic Organization (OPDO), one of the four wings of EPRDF, the ruling Party.
8. Beginning July 9,2013 : Mayor of Addis Ababa

학력 사항: 경제학사, 조직 리더십 석사

경력 사항:

1. 2000-2002 오로마이아(Oromiya) 주 노스 쇼와존(North Showa Zone) 부 행정관
2. 2002-2003 오로마이아(Oromiya) 주 웨스트 하리제존(West Harerge Zone) 최고 행정관
3. 2003-2006 오로마이아(Oromiya) 주 노스 쇼와존(North Showa Zone) 최고 행정관
4. 2007-2009 오로마이아(Oromiya) 주 농업부 국장
5. 2009-2010 통신 교통부 장관
6. 2011~July 8, 2013 교통부 장관

정치 이력:

7. 2006 이후: 에달 에티오피아인민혁명민주전선 (EPRDF)의 4당 하원 연합체 중 하나인 오모로민민주조직 (OPDO) 소속
8. 2013.7.~: 아디스아바바 시장

Mayoral Session I | 시장세션 I



Local climate actions-discussion with mayors | 도시 발표

Yu-Ih Hou

Deputy Mayor, New Taipei City Government, Chinese Taipei

우-이 후

뉴타이페이(대만) 부시장

Dr. Hou currently serves as the First Deputy Mayor of New Taipei City. In this role, he supervises City Departments of civil affairs, fire, police, social welfare, education, culture and health. He has also represented Mayor in various international meetings to advocate City's policy experiences in climate change mitigation as well as communal and social resilience. Before joining City Administration in 2010, Dr. Hou was the President of Central Police University. In 2006, at the age of 49, Dr. Hou was appointed the youngest-ever Director-General of National Policy Agency, leading Taiwan's 60,000 police officers. He gained national reputation as a hero against crime through leading successful investigations and arrests of notorious fugitives during his career.

그는 현재 뉴타이페이(New Taipei City) 제1부시장(First Deputy Mayor)을 역임하며 민원, 소방, 경찰, 사회복지, 교육, 문화, 보건 부서를 관할하고 있다. 또한 후 부시장은 시장을 대리하여 다양한 국제회의에 참석함으로써, 공동체/사회 회복력 및 기후 변화 완화를 위한 도시 정책을 홍보하고 있다.

그가 2010년 도시 행정 분야에 초점을 내린 후 전에는 중앙경찰대학교(Central Police University)의 총장으로 차지했다. 후 부시장은 2006년 49세의 나이로 최연소 국가경찰청(National Police Agency) 부총장으로 임명되어 6만명의 대만 경찰조직을 이끌었다. 그는 악명 높은 딜주범들에 대한 수사 및 체포활동을 성공적으로 수행함으로써 범죄를 소탕하는 영웅으로 국가적인 명성을 얻었다.

Mayoral Session I | 시장세션 I



Local climate actions-discussion with mayors | 도시 발표

Hongwei YANG

Head, Alliance of Peaking Pioneer Cities (APPC) Secretariat

홍웨이 양

APPC 대표

Head of APPC Secretariat and Director of Center for Energy, Environment and Climate Change, Energy Research Institute.

Dr. Yang is a professor of energy economics with the Energy Research Institute and has been the Director of Energy Efficiency Center, and Director of Center for Energy, Environment and Climate Change. He also acts as the head of the Secretariat for Alliance of Peaking Pioneer Cities (APPC), which currently has 23 member cities who are committed to peak their GHG emissions before 2030.

Dr. Yang's research focuses on energy conservation, energy systems analysis and energy related environmental policies. He has performed extensive studies on energy policy integrated assessment, cleaner and low carbon technology options, energy conservation and energy mix optimization, energy use and greenhouse gas inventories and air pollutant emissions. Dr. Yang has won several awards from the National Development and Reform Commission, the National Energy Bureau and the Ministry of Environmental Protection. He is the Chief Scientist for the "973 Project" (National Development Programme on Key Basic Research) on energy and climate change from Ministry of Science and Technology, and a major contributor to the Intergovernmental Panel on Climate Change (IPCC) to win the Nobel Peace Prize.

APPC 대표 및 에너지 연구소 내 에너지, 환경 및 기후 변화 센터장. 양 박사는 에너지 연구소의 에너지 경제학 교수로서 에너지 효율 센터장과 에너지, 환경 및 기후 변화 센터장을 맡고 있다. 양 박사는 또한 현재 2030년까지 온실가스 배출량 정점을 찍기 위해 노력 중인(2030년까지 온실가스 배출량의 최고점을 찍은 후 감소세로 돌아서기 위하여) 23개 회원 도시로 구성된 APPC 사무국 대표로 활동 중이다.

양 박사의 연구는 에너지 절감, 에너지 시스템 분석 및 에너지 연관 환경 정책에 중점을 두고 있으며, 에너지 정책 통합 평가, 청정 기술 및 저탄소 기술 옵션, 에너지 절감 및 에너지 믹스 최적화, 에너지 사용 및 온실 가스 오반트리와 대기오염물질 배출에 대한 연구를 진행해왔다. 양 박사는 또한 중화민국공화국 국가발전계획위원회, 국가 에너지국, 환경보호청으로부터 수차례 수상을 했으며, 과학기술부 주도 에너지 및 기후변화 관련 "973 프로젝트" (국가 발전 프로그램의 핵심 기초 연구)의 선임 과학자이다. 또한 기후 변화에 관한 정부간 패널(IPCC)이 노벨상을 수상하는데 있어 지대한 공헌을 했다.

Mayoral Session II | 시장세션 II



Facilitator | 퍼실리테이터

Bernadia Irawati Tjandradewi

Secretary General, UCLG-ASPAC

버나디아 이라와티

UCLG-ASPAC 사무총장

She is the first woman Secretary General of UCLG's regional section. She received her PhD in urban engineering from the University of Tokyo, and two master degrees in Atmospheric Physics from Nagoya University, Japan and in Public Policy from National University of Singapore. She has been working in urban development and related fields for more than 15 years. She is also a visiting professor at several universities in Japan. She has written various papers and has also been a speaker at numerous events.

She was appointed as a member of the Advisory Group on Gender Issues (AGGI) of UN-HABITAT in 2015. Besides global and urban environmental issues, her current interests range from strategic urban planning, climate change, disaster management, international cooperation to water management, women empowerment, and local governance. Prior to joining UCLG's largest regional section, she worked with Citynet and JICA (Japan International Cooperation Agency). She has lived more than 20 years in Japan, and currently is based in Jakarta, Indonesia.

버나디아 이라와티는 세계지방정부연합(UCLG)의 지부를 맡은 최초의 여성 사무총장이다. 이라와티는 도쿄 대학에서 도시 공학으로 박사학위를 받았으며, 일본의 나고야 대학에서 대기 물리학 석사와 싱가포르 국립대학에서 공공정책 분야 석사를 취득했다. 그녀는 도시 개발 및 관련 분야에서 15년 이상의 경력을 쌓았으며 일본의 몇몇 대학에서 초대 교수로 활동 중이며, 다수의 논문을 발표했으며 다양한 행사의 연사로도 활동하였다.

- 2015년 UN-해비坦트의 여성자문가구미 회원으로 임명됨
- 세계 및 도시 환경 이슈: 외에도 현재 전략적 도시계획, 기후 변화, 재해 관리, 수자원 관리에 관한 국제 협력, 여성 권리, 학성, 지방 정부 등의 다양한 분야에서 활동 중
- 세계지방정부연합의 최대 지부에 참가하기 전 시티넷(Citynet)과 일본국제협력기구(JICA)에서 활동
- 일본에서 20년 이상 거주, 현재 인도네시아 자카르타에 거주 중

Mayoral Session II | 시장세션 II



Keynote Presentation | 기조발표

Paolo Caridi

Chargé d'Affaires a.i., Delegation of the European Union to the Republic of Korea

파올로 카리디

주한 EU 대표부

Mr. Paolo Caridi is the current head of the Trade and Economy Section of the Delegation of the European Union to the Republic of Korea.

Paolo worked for the European Commission since 1995. He was Policy Coordinator in charge of international climate change negotiations from 2009 to 2013. Previously he held various positions in the Directorate General for Trade, notably related to Services and Investment, Trade defence and relations with North Africa and Middle East and also worked as an economist in Eurostat. Paolo has served as First Secretary in the Trade Section in the EU Delegation in Japan from 2004 to 2008. He holds a master's degree in political science and international relations from the Institute of Political Studies, Paris, and majored in economics and trade at the University of Genoa, Italy.

파올로 카리디(Paolo Caridi)는 현 주한 EU 대표부 수석상무관(head of the Trade and Economy Section of the Delegation of the European Union to the Republic of Korea)이다.

파올로는 1995년부터 유럽연합 집행위원회(European Commission)에서 근무했다. 파울로는 2009년부터 2013년까지 국제 기후변화 협상 담당 정책조정관(Policy Coordinator)을 지냈다. 그 전에는 통상총국(Directorate-General for Trade)에서 주로 서비스와 투자, 무역방어, 북아프리카 및 중동관계와 관련성 있는 다양한 직책을 맡았으며, 유로스타트(Eurostat)에서 경제전문가(economist)로 근무하기도 했다. 파울로는 2004년부터 2008년까지 일본에서 EU 대표부 통상부 1등 서기관(First Secretary in the Trade Section)을 지냈다. 파울로는 파리 정치대학(Institute of Political Studies, Paris)에서 정치학 및 국제관계학 석사학위를 취득했으며, 이탈리아 제노아 대학교(University of Genoa, Italy)에서 경제학 및 통상학을 전공했다.

Mayoral Session II | 시장세션 II



Keynote Presentation | 기조발표

Robert Kehew

Leader, Climate Change Planning Unit, UN-Habitat

로버트 큐

UN하비타트 기후변화 계획팀장

Robert Kehew serves as Unit Leader for the Climate Change Planning Unit of UN-Habitat. He coordinates the agency's Cities and Climate Change Initiative, and represents UN-Habitat in the governance bodies of the Compact of Mayors and the Cities Climate Finance Leadership Alliance. He coordinated development of Guiding Principles for City Climate Action Planning, launched at COP-21 with 45 endorsing partners, through a multi-stakeholder process. Prior to joining UN-Habitat, Mr. Kehew held positions with several US-based consulting firms. He carried out assignments in the areas of urban planning, municipal development and municipal finance, with assignments in more than 20 developing countries and the US. He holds a Masters of Public Policy degree from Harvard University.

로버트 큐는 UN하비타트에서 기후변화 및 도시계획을 담당하고 있다. 그는 UN하비타트가 발의한 도시와 기후 변화 이니셔티브의 초청을 담당하고 있으며, 시장 협약의 관리기구 및 도시기후재정 리더십연합 내에서 UN 하비타트 대표로 활동하고 있다. 로버트 큐는 또한 다수 이해관계자 프로세스를 통해, 21차 유엔기후변화협약 당사국 총회에서 45개 지자체들과 함께 발의한 기후변화 행동계획의 기본 원칙 실행을 주도했다. UN 하비타트의 일원이 되기 전, 로버트 큐는 몇몇 미국 내 컨설팅 기업에서 재직했다. 그는 도시 계획, 지방 정부 개발 및 지방 정부 재정 분야의 업무를 수행했으며 미국 및 20개 이상의 개발도상국에서도 업무를 수행한 경험이 있다. 그리고 하버드 대학에서 공공 정책에 대한 석사학위를 취득했다.

Mayoral Session II | 시장세션 II



Local climate actions-discussion with mayors | 도시 발표

Stephany Uy-Tan

Mayor, City of Catbalogan, Philippines

스테파니 위-탄

카탈로간(필리핀) 시장

The youngest and first lady City Mayor of the capital city of the 3rd largest island of the Philippines -Catbalogan City, Province of Samar. She graduated her Bachelor's degree in Business Administration. At a young age, she started her life in public service by being a volunteer of the largest youth organization in the province - Waray-Waray Youth Advocates (WARAYA). At 24 years old, she was elected as village chief of one of the barangays of Catbalogan and became Vice President of the League of Barangay Chairpersons which automatically became an ex-officio member of the City Council. In 2010, as City Council member, she topped the elections and was accorded full trust by her colleagues to hold chairmanship of various committees – Environment/Natural Resources, Women, Family and Children, Tourism, Culture and Arts, and many others. She sponsored and passed numerous ordinances that led to the realization of the City's priority programs and services. She was elected Mayor of Catbalogan in 2013 and was re-elected in May 2016 election. She vowed for an inclusive and participative form of governance with focus on Health, Environment and Sanitation; Tourism and Investment Promotion; Education and Economic Development. Several achievement awards and recognitions (regional and national level) were received by the City during her administration. As mayor of a typhoon belt city, her leadership was tested during the struck of super typhoon Haiyan, though indirectly affected, the City was the first to respond to ground zero city. She instructed her economic and planning team to come up with a new development project that would be disaster resilient and climate change adaptive. This gave birth to the proposed 120-meter above sea level new Business, Residential and Educational District in Catbalogan City known as the SKY CITY MEGA DEVELOPMENT PROJECT – an alternative economic hub for the City from the present congested business center.

스테파니 위-탄은 필리핀에서 세 번째로 큰 섬인 사마르 주(州)에 위치한 카탈로간시(市)의 최연소 여성 시장이다. 경영학 학사 학위를 받았으며, 일찍이 사마르 주에서 가장 큰 청년활동단체인 Waray-Waray Youth Advocates (WARAYA)에서 자원활동가로서 공익활동을 시작하였다. 그녀는 24세에 카탈로간시의 한 마을(바랑기이)의 대표로 선출되었으며, 바랑기이 대표인 펠의 부회장이 되면서 자동적으로 시의회 당면직 의원이 되었다. 2010년에는 시의원으로서 선거에 서승리를 거두었고, 동료들의 손임을 얻어 환경·천연자원·여성·가족·마동·관광·문화·예술 등 여러 분과위원회의 의장으로 선출되었다. 카탈로간시의 주요 정책과 서비스를 실현하는데 중요한 역할을 했던 범람들을 방지하였고 이를 통과시켰다. 2013년 카탈로간시의 시장으로 당선되었고 2016년 5월 선거에서 시장에 재당선되었다. 탄 시장은 선거 당시 꼬맹적이고 시민참여적인 시장 활동을 통해 보건·환경·위생의 개선 관광 및 투자 증진, 교육 및 경제개발을 중점에 둔 정책을 멀치겠다는 공약을 내세웠다. 탄 시장이 임기 동안 카탈로간시는 지자체 및 정부로부터 성과를 인정받아 여러 상을 수상했다. 카탈로간시는 태풍이 찾은 지역에 위치해 있어 태풍 '하이옌(Haiyan)'의 부상이 탄 시장의 리더십을 시험하는 계기가 되었다. 태풍에도 카탈로간시는 '하이옌'의 직접적인 영향을 받지는 않았으나, 태풍이 불어오면 가장 먼저 대처해야 하는 위로에 있었다. 이에 탄 시장은 경제기획팀이 기후변화에 잘 적응하고 자연재해로부터 빠르게 회복할 수 있는 도시개발계획을 지시하였다. 그 결과 카탈로간시에서 해수면 120 미터 위에 남은 주거 고�지구를 신규 조성하는 소위 '스카이시티 초대형 개발사업(Sky City Mega Development Project)'라고 알려진 프로젝트가 탄생되었다. 건설된 지역은 새로운 경제중심지로서 번창한 기존의 상업중심지를 대체할 전망이다.

Mayoral Session II | 시장세션 II

Local climate actions-discussion with mayors | 도시 발표



Jong-Geel Je

Mayor, Ansan City, Republic of Korea

제종길

안산시장

Education

- Graduated from the Department of Oceanography, Graduate School, Seoul National University (D. Sc.) in 1993
- Graduated from the Department of Science, Konkuk University (Master) in 1985
- Graduated from the Department of Biology, Konkuk University (Bachelor) in 1983
- Graduated from Young Deung Po High school in 1973

Professional Career

- Ansan City Mayor (present)
- Co-chief professor, Seoul National University Graduate School of Environmental Studies
- Co-president of Eco Tourism Korea
- Chairman of the institute for policy studies, The National Assembly Forum on Climate Change
- Member of the 17th National Assembly (Ansan-si Danwon-eul district)
- Former affiliated professor, Hanyang University
- Former co-representative, Korea Environmental Education Network
- Former senior researcher, Korea Institute of Ocean Science and Technology

Awards

- Environmental Man of the Year (by news reporters specializing in environment), 2007
- Parliamentary Award 2007 – choice of the Korea Local Newspaper Association's choice
- Grand Prize for Environment Leader in politics, 2007 (by ECOBS and NAEWAY environment news/broadcasting)
- Selected as the best national assembly member of parliamentary inspection, 2004 – 2006
- EBS Grand Prize for Environmental Education, 2003
- Memorable Citizenship Award by Ansan Citizens' Coalition for Economic Justice, 2003
- The Order of Industrial Service Merit, 2001

Publications

- Urban Travelogue (2014, Monthly Nature and Ecosystem)
- Outrageous Ideas for Cities (2014, Monthly Nature and Ecosystem)
- Stories of the Ocean and Ecosystem Told by Dr. Je Jong-Geel (2006, Gak Publishing Company)

학력

- 1993년 서울대학교 대학원 이학박사
- 1985년 건국대학교 대학원 이학석사
- 1983년 건국대학교 생물학과 졸업
- 1973년 영등포고등학교 졸업

주요경력

- 인천시장 (현)
- 서울대학교 환경대학원 도시환경 최고위과정 공동주임교수
- 한국생태관광협회 공동대표
- 국회기후모임 기후변화 청학연구소 소장
- 17대 민선단원을 국회의원
- 한양대학교 겸임교수(전)
- 한국환경교육네트워크 공동대표(전)
- 한국하양연구원 책임연구원(전)

수상경력

- 물해의 환경인상 2007 – 환경전문기자회 선정
- 의정대상 2007 – 전국지역신문협회 선정
- 대한민국 환경대상 정치부문 수상 2007 (환경방송DNA와환경뉴스 선정)
- 2004 ~ 2006 국정감사 우수 국회의원
- EBS 환경교육대상 2003
- 만산경승연이 기억하는 시민의상 2003
- 산업포장 2001

주요저서

- 도시 견문록 (2014, 자연과생태)
- 도시 발칙하게 심심하라 (2014, 자연과생태)
- 환경박사 제종길이 들려주는 바다와 생태 이야기 (2006, 각)

Mayoral Session II | 시장세션 II



Local climate actions-discussion with mayors | 도시 발표

Abby Binay

Mayor, City of Makati, Philippines

애비 빈나이

마카티(필리핀) 시장

EDUCATION

Elementary: St. Scholastica's College, Manila

Secondary: St. Scholastica's College, Manila

Tertiary: University of the Philippines, Los Banos, Laguna

Bachelor of Science in Human Ecology

Major in Human Settlements and Planning

Ateneo School of Law (1997-2001)

Juris Doctorate

Admitted to the Bar in 2002

ORGANIZATIONS/AFFILIATIONS Member: Integrated Bar of the Philippines - (2002)
Member: Movement of Attorneys for Brotherhood, Integrity and Nationalism, Inc. (MABNI)
Member: St. Scholastica Foundation Inc.

WORK EXPERIENCE

City Mayor – City of Makati, Metro Manila, Philippines (July 1, 2016 to present)

Congresswoman/Legislator – 14th Congress

- Member, Minority Floor Leader

- Member, Congressional Oversight Committee on the Overseas Absentee Voting Law

- Member, Congressional Oversight Committee on the Automated Election System

- Member, Congressional Oversight Committee on Ecological Solid Waste Management Act

15th Congress

- Deputy Majority Floor Leader

- Member, Congressional Oversight Committee on Ecological Solid Waste Management Act

- Member, Congressional Oversight Committee on the Overseas Absentee Voting Law

16th Congress

- Deputy Majority Floor Leader

- Member, Congressional Oversight Committee on Ecological Solid Waste Management Act

- Member, Congressional Oversight Committee on the Overseas Absentee Voting Law

- Practicing Law

- Subido Pagente Certeza Mendoza & Binay Law Office, Named Partner (2007 to present)

- Balane Tamase Alampay Law Office, Lawyer (2002 to 2007)

Lecturer/Advisor
Businesswoman

Council on Women's and Children's Rights
MASBinay Enterprise (Proprietor)

학력

- 초등교육: 마닐라 세인트 스콜라스티카스 칼리지(St. Scholastica's College)
- 중등교육: 마닐라 세인트 스콜라스티카스 칼리지
- 고등교육: 라구나 보스카노스 필리핀 국립대학(University of the Philippines Los Baños, Laguna)
- 인간생태학 이학사
- 인간정주계획학(Human Settlements and Planning) 전공
- 아테네오 로스쿨(Ateneo School of Law) (1997-2001) 법학 박사

변호사 자격 취득(2002)

- 조직/소속:
- 회원: 필리핀 변호사협회(Integrated Bar of the Philippines) (2002)
- 회원: 우애와 통합, 민족주의를 위한 변호사 운동(Movement of Attorneys for Brotherhood, Integrity and Nationalism, Inc., MABNI)
- 회원: 세인트 스콜라스티카 재단(St. Scholastica Foundation Inc.)

정력

- 시장- 필리핀 메트로 마닐라 미카티시(City of Makati, Metro Manila, Philippines) (2016.7.1 ~ 현재)
- 의원/입법자 - 제14대 의회
- 의원, 이당 원내 대표(Minority Floor Leader)
- 위원, 의회 재외선거법 관리위원회(Congressional Oversight Committee on the Overseas Absentee Voting Law)
- 위원, 의회 선거자동화제도 관리위원회(Congressional Oversight Committee on the Automated Election System)
- 위원, 의회 생태고형폐기물관리법 관리위원회(Congressional Oversight Committee on Ecological Solid Waste Management Act)

제15대 의회

- 여당 원내 부대표(Deputy Majority Floor Leader)
- 위원, 의회 생태고형폐기물관리법 관리위원회
- 위원, 의회 재외선거법 관리위원회

제16대 의회

- 여당 원내 부대표
- 위원, 의회 생태고형폐기물관리법 관리위원회
- 위원, 의회 재외선거법 관리위원회

변호사업

- 수비도 파겐티 세르데사 멘도사 앤 비나이 법률사무소(Subido Pagente Certeza Mendoza & Binay Law Office), 피트너(2007년 자문 ~ 현재)
- 발레민 타마스 알람파이 법률사무소(Balane Tamase Alampay Law Office), 변호사(2002 ~ 2007)
- 김사/고문 - 여성아동권리위원회(Council on Women's and Children's Rights)
- 사업가 - MAS비나이 인터프赖즈(MASBinay Enterprise) (소유주)

Mayoral Session II | 시장세션 II



Local climate actions-discussion with mayors | 도시 발표

Taiyong Zhong

Vice Mayor, Guiyang Municipal People's Government, People's Republic of China

타이용 종

구이양(중국) 부시장

Zhong Taiyong, born in Qiandongnan Miao and Dong Autonomous Prefecture, Guizhou Province, joined the Chinese Communist Party in June 1988, started work in July 1988. Bachelor of Engineering, college degree, graduated from commercial and civil building, Department of Civil Engineering, Guizhou Institute of Technology. MBA, on-the-job graduated from economic college, Zhejiang University. The incumbent vice mayor of People's Government of Guiyang City, party members.

중국 구이저우(Guizhou)성 천시(Qianxi)현 출신으로 1988년 6월 중국 공산당에 입당하였고 같은 해 7월 사회생활을 시작하였다. 구주기술대학(Guizhou Institute of Technology) 토목공학대학원에서 상업토목건축 전공으로 공학 학사학위를 받았으며, 절강대학교(Zhejiang University) 경제학 대학원에서 경영학 석사학위(MBA)를 받았다. 현재 공산당원으로서 중국 구이양시 인민정부의 부시장으로 재직 중이다.

Mayoral Session II | 시장세션 II



Local climate actions-discussion with mayors | 도시 발표

Yi-Ying Lin

Deputy Mayor, Taichung City Government, Chinese Taipei

이-잉 린

타이중(대만) 부시장

EDUCATION

- Bachelor Degree, Department of Economic, Feng Chia University
- Master Degree, Institute of Social Welfare, National Chung-Cheng University

Experiences

- Executive Director, Honde Senior Citizen's Welfare Foundation
- Committee Member, Youth Volunteer Service for Regional Peace, Executive Yuan
- Member, Board of Population and Talent Policy, Executive Yuan
- Commissioner, Federation for the Welfare of the Elderly
- Lifetime Learning Promotion Committee, Ministry of Education
- Committee for the Welfare of the Elderly, Ministry of Health and Welfare
- Board of Learning and Service Management for Taiwan's Senior Citizen
- Social Welfare Promotional Committee, Executive Yuan
- Taichung City Government Advisor for Social Welfare Fund Raising Association
- National Development Council Advisor, Executive Yuan
- Taichung City Long Term Care Service Promotion Team Member
- Taichung City Lottery Profit Management Committee
- Taichung City Government Friendly City for the Elderly Promotion Committee
- Taiwan NPD Self-Regulation Alliance
- Deputy Chairman, Chang-Hwa Mental Health Foundation
- Review Committee Member, United Way of Taiwan
- Board Member, Ten Outstanding Young Person's Foundation
- Taichung City Dershui Institute for the Rehabilitation of the Mental Retarded

Awards

- Taiwan's Top 10 Potential Persons Award (2006)
- Chunghwa's Top 10 Outstanding Persons Award (2006)
- Executive Yuan, Youth Public Participation Award (2008)
- National Award for Youth Public Participation in NPO Management (2008)
- The Forty-Eighth Top Ten Youth Award of the ROC (2010)
- Honorable Citizen of Taichung City Award (2010)
- Taiwan MVP Manager Award for Public Welfare Innovation (2012)
- Global View Award for Citizen Heroes (2013)
- Hong Kong Macau Taiwanese Charity Fund Award (2013)
- Award for Outstanding Alumni of National Chung-Cheng University (2014)

- TCA Award for Outstanding Contribution to Community Building (2014)
- Outstanding Youth Leadership Award (2014)
- Balane Tamase Alampay Law Office, Lawyer (2002 to 2007)

**Lecturer/Advisor
Businesswoman**

- Council on Women's and Children's Rights
- MASBinay Enterprise (Proprietor)

교육사항

- 풍자미대학교 경제학부 학사
- 국립중장대학교 사회복지대학원 석사

경력

- 흥다오노인복지재단 집행국장
- 대만 행정원 지역망화를 위한 청년자원봉사단 위원
- 대만 행정원 인구 인재정책위원회 위원
- 노인복지연합 위원
- 교육부 평생교육정책추진위원회 위원
- 보건복지부 노인복지정책추진위원회 위원
- 다만 노인교育서비스관리위원회
- 다만 행정원 사회복지정책추진위원회
- 사회복지기금모금협회 타이완 시점부 고문
- 다만 행정원 국가기본위원회
- 타이谗시 장기요양서비스추진팀 팀원
- 타이谗시 복권수익관리위원회
- 타이谗시 노인친화적도시정책추진위원회
- 타이완 비영리기관지침행
- 청화정신건강재단 부회장
- 중화사회복지연합모금협회 실무위원
- '10인의 우수 청년상' 재단(Ten Outstanding Young Person's Foundation) 이사
- 타이谗시 Dershual 정신지지장애민 재활시설

수상이력

- 전도유망한 다만 인재 10인상 (2006)
- 청화 우수인재 10인상 (2006)
- 다만 행정원 청년시민참여상 (2008)
- 청년시민참여상 - 비영리기관 경영부문 (2008)
- 제48회 다만 우수청년 10인상 (2010)
- 타이谗시 모범시민상 (2010)
- 다만 MVP 관리자상 - 공공복지혁신 부문 (2012)
- 글로벌뷰어워드(Global View Award) - 시민영웅 (2013)
- 총чув 마카오 다만 자선기금상 (2013)
- 국립중장대학교 학교를 빛낸 둘째상 (2014)
- TCA어워드 - 공동체 형성 부문 (2014)
- 우수 청년지도자상 (2014)

Mayoral Session II | 시장세션 II



Local climate actions-discussion with mayors | 도시 발표

Namgay Tshering

Deputy Mayor, City of Thimphu, Bhutan

남가이 쳐링

림푸(부탄) 부시장

EDUCATION

- Education (academic): Bachelor of Commerce (2000-2003)
- Kalimpong College, North Bengal University, West Bengal, India.

Job Experience

- Elected City Council Member of Babesa Zone, serving Dy. Mayor of thimphu city (2016 -)
- Elected City Council Member of Babesa Zone, Dy. Mayor of thimphu city (2010-2015)
- Office secretary for the 1st Elected Democratic Party office of Constitutional Monarch of Bhutan (2007 - 2010).
- CEO (2003 – 2008) Bhutan Harmony Tours, Travel Agent

Key Responsibilities

- To represent the people of Babesa Zone.
- Chair the city council meeting the absence of the Mayor.
- To Chair the Thimphu City Corporation's Local Area Plan committee in Babesa Zone such as providing clean drinking water, waste management, disaster management, etc.

Other responsibilities

- Member of Tendering Committee of the Thimphu City Corporation
- Chairperson of the School Board Member in the Babesa Zone
- Leading head of the Cleaning committee in the zone
- Languages: English, Dzongkha, Hindi and Nepali

Training/Workshop/Meetings

- South Asia Regional Meeting, Local Government a partner in achieving the SDGs, Jabalpur, India (2nd-4th Aug 2016).
- Sustainable Tourism Policies for delivering social environmental and economic benefits in the Asia Pacific Region, Jeju, Republic of Korea (24th -27th May 2016).
- 1st Session of 2016 UCLG ASPAC Executive Bureau, 3rd South Asian Cities Summit 2016, Smart Cities-aspiration and challenges, New Delhi (5th -7th May 2016).
- UCLG Aspect consultative meeting on sustainable development goals and new urban agenda for south and south west Asia, Sri Lanka (9th -12th December 2015).

교육사항

- 인도 서벵갈주(제4) 북벵갈대학교, 칼립공대학교 무역학 학사 (2000-2003)

경력사항

- 바베사(Babessa) 지역구 대표 시의원, 팀푸시 부시장 (2016~)
- 바베사 지역구 대표 시의원, 팀푸시 부시장 (2010~2016)
- 부탄왕국 제1당 은민민주당 사무소 서기 (2007-2010)
- 여행사 '부탄하모니투어' CEO (2003-2008)

주요업무

- 바비사 지역구민 대표
- 시장 부재 시 시의회 회의 대리 주재
- 바비사 지역구 팀푸시(Timpu city) 지방계획위원회 회의 주재 (까끗한 식수 제공, 오수처리, 재난관리 등 논의)

기타업무

- 팀푸시 임찰위원회 위원
- 바비사 지역구 교육위원회 의장
- 바비사 지역구 환경미화위원회 의장

구사가능언어

- 영어, 종카어, 힌두어, 네덜란드어

트레이닝/워크숍/회의

- 남아시아 지역회의(South Asia Regional Meeting) 지속가능발전목표를 달성하기 위한 지방정부와의 마트너십, 인도 자발구르 (2016년 8월 2일~4일)
- 아시아-태평양 지역에 사회적·환경적·경제적 이익을 제공하는 지속가능한 혼합정책, 한국 제주도 (2016년 5월 24일~27일)
- 2016 세계지방자치단체연합 아태지부(UOLG ASPAC) 집행부회의 제1세션, 2016 제3차 남아시아 도시정상회의, 스마트 시티에 대한 열망과 도전과제, 인도 뉴델리 (2016년 5월 5일~7일)
- 세계지방자치단체연합 아태지부(UOLG ASPAC) 자문회의, 지속가능발전목표와 신도시의지를 위한 남아시아-서남아시아의 역할 (2016년 12월 9일~12일)

Mayoral Session III | 시장세션 III



Facilitator | 퍼실리레이터

Maryke van Staden

Director of the Bonn Center for Local Climate Action and Reporting (carbonn Center), ICLEI

머라이케 반 스탠든

ICLEI 저탄소프로그램팀장

Manager of ICLEI's Low Carbon City Agenda and Director of the Bonn Center for Local Climate Action and Reporting (carbonn Center), ICLEI World Secretariat, Bonn

Maryke, South African, is an international political analyst with 25 years professional experience, including a wealth of unique experience in policy, security, low emission and resilient city development, as well as MRV (measuring, reporting and verifying) local climate action led by local and subnational governments.

As Director of the carbonn Center she leads ICLEI's global climate strategy, working with all 17 ICLEI offices, as well as national governments, international organizations and technical experts, to support local governments around the globe with sustainable development. Her daily work includes overseeing policy and technical support to local governments, operation of global processes and platforms such as the carbonn Climate Registry, and supporting global climate advocacy at the UNFCCC and international climate change negotiations.

She coordinated ICLEI's flagship Urban-LEDS project, working with cities in Brazil, India, Indonesia and South Africa to develop low emission development strategies, also connecting to Chinese cities. Maryke also leads ICLEI's global work in the Compact of Mayors.

Her role as global liaison for ICLEI with Sustainable Energy for All (SE4All), the Climate and Clean Air Coalition (CCAC), IRENA, and other international initiatives and organizations ensures "her finger is on the pulse". Maryke represents ICLEI on the Steering Committee of the CCFLA (City Climate Finance Leadership Alliance) and on the Management Committee of the Compact of Mayors, and a Member of the European Trans-disciplinary Advisory Board (TAB) for JPI Climate, among others.

지방자치단체 국제환경협의회(이클레이, ICLEI) 세계 사무국(독일 본)의 이클레이 저탄소 도시 아젠다(Low Carbon City Agenda) 관리자이자 지역 기후활동과 보고를 위한 본 센터(Bonn Center for Local Climate Action and Reporting)(탄소센터, carbonn Center) 책임자.

남아프리카 공화국 출신인 머라이케는 25년의 전문경력을 갖춘 국제 정치분석가로서 정책, 안보, 저배출, 희극탄력성(resilient) 도시개발, 지방 및 준군사 정부 주도의 지방 기후활동 측정(measuring), 보고(reporting), 확인(verifying) (MRV)등의 분야에서 특별한 경력을 쌓았다. 머라이케는 탄소센터 책임자로서, 총17개의 이클레이 사무소, 국가정부들, 국제기관들, 기술전문가들과 함께 전 세계 지방정부들의 지속가능한개발 지원을 위한 이클레이 글로벌 기후전략을 주도하고 있다. 머라이케의 일상 업무로는 지방정부들에 대한 정책 및 기술 지원 강연, 탄소기후동북부(carbon Climate Registry) 등 글로벌 절차 및 플랫폼 운영, 유엔기후변화협약(United Nations Framework Convention on Climate Change, UNFCCC)과 국제기후변화협상에서의 글로벌 기후옹호 지원 등이 있다.

머라이케는 저배출개발 전략을 발전시키기 위해 브라질, 인도, 인도네시아, 남아프리카공화국과 협력하고 중국도시들

과 연계하여 아글레이의 주력 사업인 도시 저탄소개발 전략(Urban-LEDS)을 조율하였다. 머라이케는 또한 시장협약(Compact of Mayors)에 따른 아글레이의 글로벌 노력을 이끌고 있다.

머라이케는 모두를 위한 지속가능한 에너지(Sustainable Energy for All, SE4ALL), 기후 및 청정대기 협력체(Climate and Clean Air Coalition, CCAC), 국제재생에너지기구(International Renewable Energy Agency, IRENA) 등 기타 국제 이니셔티브 및 기관들과 아글레이를 연결시켜주는 글로벌 '연락관(liaison)' 역할을 통해 "최근 동향을 잘 파악하고 있다(her finger is on the pulse)," 머라이케는 특히, 도시기후재정리더십연맹(City Climate Finance Leadership Alliance, CCFLA) 운영위원회와 시장협약 관리위원회에서 아글레이를 대표하며, 유럽 기후 공동 프로그래밍 이니셔티브(JPI Climate)를 위한 초학문적 자문기관(Trans-disciplinary Advisory Board, TAB)의 회원이다.

Mayoral Session III | 시장세션 III

Keynote Presentation | 기조발표



Kilaparti Ramakrishna

Head/Director of UN ESCAP East and North East Asia Office

킬라파르티 라마크리슈나

UNESCAP 동북아사무소 대표

Kilaparti Ramakrishna, an international lawyer by training, has devoted much of his teaching and research career to the interactions of environmental law, science and policies. He is currently Director and Head of UNESCAP East and North East Asia Office in South Korea. He comes to this position from the Woods Hole Research Center where he held the positions of Vice President and holder of the Sara Shallenberger Brown Chair in Environmental Policy. Prior to that, he worked for five years in UNEP including for a period as the Principal Policy Advisor to the Executive Director. He has held teaching positions at Yale and Boston Universities, Boston College and Harvard Law Schools and been a Visiting Professor of International Law for over ten years at the Fletcher School of Law and Diplomacy since 1993. Since 2011 he was an integral part of green growth studies by ESCAP secretariat and also worked with Green Growth Knowledge Platform as one of the knowledge partners. Also, as head of ESCAP East and North-East Asia Office, he supported the Mongolian government in the development and adoption of the Green Development Policy.

킬라파르티 라마크리슈나 박사는 2011년 8월부터 유엔아시아태평양경제사회위원회(United Nations Economic Social Commission for Asia and the Pacific, UNESCAP) 동북아지역사무소 대표로 재직하고 있다. 기후변화 정책 전문가이자 국제환경법 전문가인 킬라파르티 라마크리슈나 박사는 미국 우즈 홀 연구소(Woods Hole Research Center: WHRC)에서는 부원장, 유엔환경계획(United Nations Environment Programme: UNEP)에서는 UNEP 사무총장 선임자문관으로 근무하였다. 또한 마크리슈나 박사는 유엔기후변화협약(UN Framework Convention on Climate Change: UNFCCC) 특별자문관, 생물다양성협약(Convention on Biological Diversity: CBD) 사무국의 선임 담당관을 역임하였다.

라마크리슈나 박사는 미국 블레이저 법학 및 외교학 대학원, 하버드대학교 로스쿨, 예일대학교 로스쿨, 보스턴대학교 객원 교수를 역임하였으며, 미국 국제관계위원회 종신회원이다.

Mayoral Session III | 시장세션 III



Local climate actions-discussion with mayors | 도시 발표

Dr. Neni Moerniaeni, Sp.OG

Mayor, Bontang City, Indonesia

네니 모에르니애니

본탕(인도네시아) 시장

Personal Statement

If not us then who? If not now then when? (Hillel)

Educational Background

- SDN Rawa Kemiri, Jakarta - graduated in 1972 (Elementary School)
- SMPN 66, Jakarta - graduated in 1975 (Junior High School)
- SMAN 1, Makassar - graduated in 1978 (High School)
- General Medical Faculty of Hasanuddin University, Makassar - graduated in 1979
- Specialist of Obstetrics and Gynaecology - graduated in 1994

Career Summary

- General Doctor in AW Sjahrir Public Hospital, Samarinda (1989)
- General Doctor in Islamic Hospital of Samarinda
- Company Doctor for Kalhold and Lakosta
- Specialist Doctor of Obstetrics and Gynaecology in AW Sjahrir Public Hospital, Samarinda (1989 - 2001)
- Deputy Chairman of Bontang City Parliament (2004 - 2009)
- Chairman of Bontang City Parliament (2010 - 2014)
- Member of The Indonesian House of Representatives (2014 – 2015)
- Mayor of Bontang City (2016 - 2021)

좌우명

우리가 아니면 누가 할 것이며, 지금이 아니면 언제 할 것인가? (힐렐)

학력

- 지카르타 소재 SDN 라와 크미리 초등학교 졸업 (1972년)
- 자카르타 소재 SMPN 66 중학교 졸업 (1975년)
- 마카사르 소재 SMAN 1 고등학교 졸업 (1978년)
- 마카사르 소재 하사누딘대학교 의과대학 졸업 (1979년)
- 산부인과 전문의 자격 취득 (1994년)

경력사항 요약

- 사마란다 소재 AW 스자르니 공립병원 일반의 (1989)
- 사마란다 소재 아슬랄병원 일반의
- 길로드, 라코스타 사내 주치의
- 사마란다 소재 AW 스자르니 공립병원 산부인과 전문의 (1989-2001)
- 보나탕 시의회 부의장 (2004-2009)
- 보나탕 시의회 의장 (2010-2014)
- 인도네시아 국회 하원의원 (2014-2016)
- 본탕 시장 (2016-2021)

Mayoral Session III | 시장세션 III



Local climate actions-discussion with mayors | 도시 발표

Steve Skadron

Mayor, City of Aspen, USA

스티브 스캐드론

아스펜(미국) 시장

Steven Skadron is the Mayor of the City of Aspen, serving since June, 2013. He is committed to sustainable land use practices that support a healthy year-round community and a vibrant visitor-based economy. Under his leadership Aspen has achieved its goal of reaching 100% renewable energy in its municipal utility and tightened building codes that threatened small town character. He is currently spearheading an effort to bring next generation mobility options into Aspen to reduce people's reliance on single occupancy vehicles. Mayor Skadron previously served six years as a member of the Aspen City Council and is the principal of Spooner Skadron LLC, a marketing communications firm he founded in 2003. He serves as an adjunct professor of E-Commerce at Colorado Mountain College's Isaacson School, and as the President of the Colorado Association of Ski Towns focusing on policies to benefit and sustain mountain communities. He is a graduate of University of Minnesota and has a MBA from Northeastern University in Boston.

스티브 스캐드론(Steve Skadron)은 2013년 6월부터 미국 아스펜(Aspen) 시장으로 재직 중이다. 스캐드론 시장은 자속 가능한 토지미용을 통해 건강한 지역사회를 조성하고 활기찬 관광산업 기반의 경제를 만드는 데 전념하고 있다. 스캐드론 시장의 임기 동안 아스펜(Aspen)시는 시내 전력의 100%를 자생 가능에너지로 전환하는 목표를 달성하였고, 작은 마을의 특성을 해치는 기존의 건축규정을 강화하였다. 더 나아가 그는 아스펜 시민들의 자가용 인임승에 대한 의존도를 줄이고자 새로운 교통시스템의 도입을 추진하고 있다. 스캐드론 시장은 시장으로 당선되기 전 8년간 아스펜의 시의원으로 활동하였으며, 현재는 2003년에 자신이 설립한 마케팅 커뮤니케이션 기업인 스프너 스캐드론 유한회사(Spooner Skadron LLC)의 사장으로 재직하고 있다. 콜로라도마운틴컬리지(Coloardo Mountain College)에서 뉴미디어 학부 겸임교수로 재직 중이며, 콜로라도 스키타운 협회(Colorado Association of Ski Towns) 회장으로서 산악지역의 경익과 환경을 보호하는 데도 앞장서고 있다. 스캐드론 시장은 미네소타대학교(University of Minnesota)를 졸업하였으며, 보스턴에 위치한 노스이스트던대학교(Northeastern University)에서 MBA를 취득하였다.

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Local climate actions-discussion with mayors | 도시 발표

Soon-sun Lee

Governor, Inje County Government, Republic of Korea

이순선

인제군수

Education

- Graduated from Inje Elementary School (45th)
- Graduated from Inje Middle School (18th)
- Graduated from Inje High School (18th)
- Graduated from the Dept. of Information & Communication Network, Hallym Polytechnic University, 2012

Professional Career

- Hired as government official in Inje County (1976. 6. 15.)
- Worked as planning and inspection manager, tax accounting manager, local autonomy administration manager, Environmental protection manager, civil affairs office manager in Inje County (1996.11.28.~2011.9.7.)
- Voluntarily retired from the local vice commissioner of Inje County (2011.09.08.)
- Former senior managing director of Deer Ecosystem Restoration Movement Headquarter
- JCI-KOREA member in Inje County
- Elected as the 40th Inje County governor by the 5th public election (2011.10.27. / re-elected in 2011.10.26.)
- Incumbent president of Inje Cultural Foundation
- Incumbent president of Inje Military Athletic Association
- Incumbent president of Inje Military Scholarship Committee
- Visiting professor, Graduate School of Public Administration, Dongguk University (2013.09.01~)
- Elected as the 41st Inje County governor by the 6th public election (2014.07.01.)
- Incumbent president of National Association of Mayors for Neighboring Regions (2014.09.23.)

Awards

- Presidential award for exemplary officials, 2002
- Order of Service Merit - Red Stripes, (2011)
- '2013 The Global CEO of Korea' in Environmental Management [Forbes Korea], 2013
- 2014 Award for Leadership in Local Agricultural Development [National Agricultural Cooperative Federation]
- 2014 Korea CEO Awards in Environment-friendly Management [Ministry of Trade, Industry and Energy, Ministry of Science, ICT and Future Planning, the Dong-A Daily News]

최우명

- 인제초등학교(45회)
- 인제중학교 졸업(18회)
- 인제중학교 고등학교 졸업(8회)
- 한림성심대학교 정보통신네트워크학과 졸업(2012년)

주요경력

- 인제군 공무원 임용 (1976. 6. 15.)
- 인제군 기획감사실장, 세무회계과장, 자치행정과장, 환경보호과장, 민원봉사과장 (1998.11.28.~2011.9.7.)
- 인제군 지방부미사관 명예퇴직 (2011.09.08.)
- 前 (시)시승생태복원운동본부 총무이사
- JCI-KOREA 인제 특우회원
- 민선5기 제40대 인제군수 취임 (2011.10.27. / 2011.10.26. 재선기 당선)
- 現 인제군문화재단 이사장
- 現 인제군체육회 회장
- 現 인제군장애인 학회 이사장
- 現 동국대학교 행정대학원 각원교수 (2013.09.01~)
- 민선8기 제41대 인제군수 취임 (2014.07.01.)
- 現 접경지역시장군수협의회 회장(2014.09.23.)

수상

- 모범공무원 대통령표창(2002년)
- 흥주근정훈장(2011년)
- '2013 대한민국 글로벌 CEO' 환경영업부문 [포브스코리아]
- 2014 지역농업발전 선도인상 [농협증권]
- 2014 한국의 최고경영인상 친환경경영부문 [산업통상자원부, 미래창조과학부, 동아일보]

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Local climate actions-discussion with mayors | 도시 발표

Chin-de Chen

Deputy Mayor, Kaohsiung City Government, Chinese Taipei

친-더 첸

가오슝(대만) 부시장

Mr. Chen has served as Deputy Mayor of Kaohsiung City Government since the year of 2014. He owns both the Executive Master of Business Administration (EMBA) and the Master of Chemical Engineering of National Taiwan University in his school days. After that, Mr. Chen had immersed in abundant political experiences as the Member for the 2nd and 3rd National Assembly and Legislator for the 5th and 6th Legislative Yuan in the Central government. In recent years, Mr. Chen had also dedicated himself into municipal governance for long years to be the Director-general of Civil Affairs Department in Yilan County, the Director-general of Environmental Protection Bureau in Kaohsiung City.

친-더 첸(Chin-De Chen) 부시장은 2014년부터 대만 가오슝(Kaohsiung)시 부시장으로 재직하고 있다. 천친더 부시장은 국립대안대학교(National Taiwan University) 경영학 석사(MBA) 및 화학공학 석사를 취득한 후 제2·3기 국회의원, 중앙정부 산하 입법원 제5·6기 입법위원을 거치며 다양한 정치 경험을 쌓았다. 또한 최근 몇년간 이란현(Yilan) 민정 차장, 가오슝시 환경보호국장으로 일하며 오랫동안 지방정부에 헌신하였다.

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Introduction to the Network | GLCN 소개

Mark Hidson

Global Director, ICLEI Sustainable Procurement Centre

마크 히드슨

ICLEI 유럽본부 국장

Mark joined ICLEI in 2003. He is a member of ICLEI Europe's Board of Directors and responsible for the sustainable economy and procurement work. Mark is the Global Director of ICLEI's Sustainable Procurement Centre. For 18 years he has worked for, and on behalf of, local, regional and national governments in project, policy and strategy development on sustainability issues such as procurement, climate change and transport. Mark is Co-Chair of the 10 Year Framework Programme on Sustainable Public Procurement, Vice-Chair of the International Green Purchasing Network and a member of the European Commission's Green Public Procurement Advisory Group.

Mark oversees ICLEI's Global Lead City Network on Sustainable Procurement, Procura+ - European Sustainable Procurement Network and ICLEI's sustainable procurement conference series - EcoProcura. Mark has developed, managed and overseen many national, European and international projects on various sustainable development topics. Before joining ICLEI Mark worked in various local governments on topics such as Local Agenda 21, climate change, sustainable transport and community development. Mark has a BSc (Hons) degree in Environmental Science and a Masters in Environmental Management.

마크 히드슨은 2003년에 지자체 국제환경협의회(ICLEI)의 일원이 되었으며, 현재 ICLEI 유럽 이사회 일원으로 지속 가능한 경제 및 조달과 관련된 업무를 담당하고 있다. 그는 ICLEI의 지속 가능한 조달 센터의 국제 소장으로 재직 중이며, 18년간 지방 정부, 지역 정부, 중앙 정부의 의뢰를 받거나 그들을 대표하여 조달, 기후변화, 대중 교통과 같은 지속 가능한 경영 문제에 대한 프로젝트, 정책, 전략을 수립하는 업무를 담당해 왔다.

마크 히드슨은 지속 가능한 조달에 대한 10년 기획 프레임 워크 프로그램 (10-YFP)의 공동의장을 맡고 있으며, 국제 녹색구매 네트워크(PGN)의 부의장이자 유럽연합 집행위원회의 녹색공공조달 자문그룹의 일원으로 활동하고 있다.

마크 히드슨은 지속 가능한 조달에 대한 ICLEI의 세계 선도도시 네트워크를 감독하고 있으며, 유럽 지속 가능한 조달 네트워크인 프로쿠라+(Procura+)와 일련의 ICLEI 주최 지속 가능한 조달 회의인 에코프로쿠라(EcoProcura)를 감독하고 있다. 그는 지속 가능한 성장과 관련한 다양한 주제를 가지고 수많은 국가적 프로젝트와 유럽 및 국제적 프로젝트를 수립, 관리, 감독해오고 있다. ICLEI에 합류 전, 마크 히드슨은 지방정부의 제 2, 기후 변화, 지속 가능한 교통 및 지역사회 발전과 같은 다양한 주제로 수많은 지방정부 단체에서 활동을 했다. 마크 히드슨은 환경 과학, 이학사 학위, 우등학위를 취득하였으며 환경 관리학 석사 학위를 취득했다.

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Keynote Presentation | 기조발표

Ju-Hyun Cho

Director of Sustainable Lifestyle Office, Korea Environmental Industry & Technology Institute (KEITI)

조주현

KEITI 친환경생활 실장

Education

- MAR 2015 – present · Hoseo University Ph.D Candidate
 - Graduate School of Venture Business
 - AUG ~ DEC 2015 · Kim Chang Joon Academy of Politics and Economics (11th) Completed
 - FEB 2015 · Hoseo University Master
 - Graduate School of Venture Business
 - FEB 1995 · Seoul National University of Science & Technology Bachelor of Engineering
 - Dept. of Mechanical Design
- Professional Career**
- FEB 2015 ~ present · Korea Environmental Industry & Technology Institute Office Director
 - Sustainable Lifestyle Office
 - JAN 2012 ~ JAN 2015 · Korea Environmental Industry & Technology Institute Team Leader
 - JAN 2010 ~ DEC 2011 · Korea Environment Corporation
 - SEP 1995 ~ DEC 2009 · Korea Resources Recovery & Reutilization Corporation
 - Korea Environment & Resource Corporation

Awards

- MAR 2016 · Seoul Mayoral Citation
- DEC 2014 · KEITI Presidential Citation
- JUN 2013 · Ministry of Environment Ministerial Citation
- NOV 2011 · National Institute of Environmental Human Resources Development Presidential Achievement Award
- DEC 2008 · Ministry of Environment Ministerial Citation
- DEC 2003 · Ministry of Environment Ministerial Citation
- MAY 2001 · Korea Resources Recovery & Reutilization Corporation Presidential Citation
- NOV 1997 · Ministry of Environment Ministerial Citation

학력 사항

- 2015. 3 ~ 현재 · 호서대학교 박사과정
- 벤처 경영 대학원
- 2015. 8 ~ 12 · 김창준 정경 아카데미 (1기) 수료
- 2015. 2 · 호서대학교 석사
- 벤처 경영 대학원
- 1995. 2 · 서울과학기술대학교 공학 학사
- 기계디자인 공학과

경력 사항

- 2015. 2 ~ 현재 · 한국환경산업기술원 실장
- 친환경생활실
- 2012. 1 ~ 2015. 1 · 한국환경산업기술원 책임 연구원
- 2010. 1 ~ 2011. 12 · 한국환경공단
- 1995. 9 ~ 2009. 12 · 한국자원재생공사
- 한국환경자원공사

수상 실적

- 2016. 3 · 서울 시장 표창 수상
- 2014. 12 · 서울환경산업기술원 원장 표창 수상
- 2013. 6 · 환경부 장관 표창 수상
- 2011. 11 · 국립환경민족개발원 원장 표로상 수상
- 2008. 12 · 환경부 장관 표창 수상
- 2003. 12 · 환경부 장관 표창 수상
- 2001. 5 · 한국자원재생공사 사장 표찰 수상
- 1997. 11 · 환경부 장관 표창 수상

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Commitments and achievements of the cities | 도시 발표

Jaeryong Ryu

Assistant Mayor, Seoul Metropolitan Government, Republic of Korea

유재룡

서울 기후환경부부장

Name Jaeryong Yoo (64. 1. 1.)

Date of Birth January 1, 1964

Position Assistant Mayor for Climate & Environment

Education - M.A. from Wisconsin-Madison University
- B.A. in Public Administration from Korea University

Career - 2015.1~2016.6: Director-General of International Cooperation Bureau, Seoul Metropolitan Government (SMG)
- 2013.1~2015.1: Deputy mayor of Seongdong-gu
- Director-General of Economy & Investment Planning, SMG
- Director of Economic Policy Division, SMG
- Director of Finance Division, SMG
- Director of Creative Administration, SMG
- Director of International Relations Division, SMG
- Director of Investigation Division
- Audit Inspection Bureau, SMG
- Director of World Cup Planning Division
- Culture & Tourism Bureau, SMG
- 2012.1: Promoted to Local Vice Commissioner
- 1990.4~1993.3: Director of Eunpyeong-gu, Yongsan-gu
- Passed the High Civil Service Examination in 1989

성명

유재룡(64. 1. 1.)
고려대학교 행정학과 졸업
위스콘신마디슨대학원 졸업

주요 경력

- 1989년 4월 행정고시 제32회
- 은평구, 용산구 과장(1990. 4. ~ 1993. 3.)
- 2012년 1월 지방부이사관 승진
- 서울시 문화관광국 월드컵기획담당관
- 서울시 김사관 조사담당관
- 서울시 산업국 국제협력과장
- 서울시 경영기획실 경영기획관 청의담당관
- 서울시 경영기획실 경영기획관 재정담당관
- 서울시 경쟁력강화본부 경쟁력정책담당관
- 서울시 경제진흥본부 경제정책과장
- 서울시 경제진흥본부 산업경제기획관
- 성동구 부구청장 부임(2013. 1. 1.)
- 서울시 기획조정실 국제협력관

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Commitments and achievements of the cities | 도시 발표

Michał Olszewski

Deputy Mayor, City of Warsaw, Poland

마이클 올스즈위스키

비르사바(폴란드) 부시장

As a deputy mayor he's responsible for supervising strategic planning and acquisition of EU funds, policy of regional development, tourism, labor market, development of the wharves of Vistula river, business licensing, housing policy, activities in the field of revitalization, environmental protection, development of green areas and urban forests, infrastructure and waste management.

He leads Warsaw Council for Innovation policy and is a member of it's counterpart at the voivodship level. He also represents EUROCITIES, the largest organization of European cities, in the Smart Cities High Level Working Group in the European Commission.

He is also involved in strengthening of the cooperation of local governments on national level and in metropolitan areas. In the years 2007-2015 he served as head of the Commission of the European Policy and International Cooperation of the Association of Polish Cities. Since 2012 he is co-chairman of the Functional Metropolitan and Urban Areas Team of the Joint Commission of Government and Local Government.

For his contribution to the development of self-governance he was awarded by the President of Poland with the Gold Cross of Merit (2015) and with the Honorary Badge of Merit for the Local Government by the Minister of Administration and Digitization (2015).

마이클 올스즈위스키 비르사바(Warsaw) 부시장은 전략기획 및 EU자금 유치 업무를 총괄하고 있다. 지역발전, 관광산업 활성화, 노동시장 개선, 비스툴라 강(Vistula river) 부두지역 개발, 사업자 허가 관리, 주택정책 등을 담당하고 있으며, 도시재생, 환경보호, 녹지 및 도시환경 관리, 인프라 및 오수관리 관련 활동을 진행하고 있다.

또한 그는 비르사바 혁신정책위원회 의장미자, 해당 위원회의 지방행정구역(Voivodship)지부의 회원으로 활동하고 있다. 그는 또한 유럽연합집행위원회(EC)의 스마트시티 고위급 실무자그룹산하 유럽 최대 도시연합인 유로시티즈(EUROCITIES)의 대표를 맡고 있다.

마이클 올스즈위스키 부시장은 전국의 지방정부 및 중앙정부의 협력강화를 위해 노력해 왔다. 2007년부터 2015년까지 유럽 정책위원회(Commission of the European Policy) 의장을 역임하였으며, 폴란드 도시협회에서 국제협력업무를 담당하였다. 2012년부터 중앙·지방정부 공동위원회의 도시지역분과 공동의장을 맡아왔다.

그는 지방자치 발전에 기여한 공로를 인정받아 2015년 폴란드 대통령으로부터 황금십자가상(Gold Cross of Merit)을 수상하였으며, 같은 해 지방정부의 행정 및 디지털화 무시의 장관으로부터 명예훈장을 받았다.

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Commitments and achievements of the cities | 도시 발표

Joy Belmonte

Deputy Mayor, City of Quezon, Philippines

조이 벨몬트

魁松(필리핀) 부시장

Ma. Josefina Belmonte is the Presiding Officer of the Quezon City Council, DIC of the Quezon City Tourism Department, Chairman of the Quezon City Anti-Drug Abuse and Advisory Council, Head of the Quezon City Sports Program, and Co-Chair of the Gender and Development Council, the Quezon City Film Commission, the Local Housing Board, the Local Council for the Protection of Children, the Disaster Risk Reduction Management Council, among others. She was also the Chairperson of the Anti-Poverty Integration Task Force, now called the Local Poverty Reduction Action Team (LPRAT).

Recently, the Gawad Sulu ng Bayan awarded Vice Mayor Belmonte as the Pinakamahusay na Ikalawang Punong Lungsod sa Kalakhang Maynila-Sektor ng Pamahalaan. Under her leadership, the DLG also conferred upon the Quezon City Council the Local Legislative Award for Best Sangguniang Panlungsod for NCR on her first term. Through her initiative, the QC Council passed landmark measures such as the QC Children's Code of 2012, the Ordinance Creating the Quezon City Protection Centre for Gender-Based Violence, the Quezon City Tourism Department, the QC Plastic Bag Reduction Ordinance, the Local Economic Development Incentive Code, and the Department of Housing, Community Development and Resettlement. She is also the main proponent of the Barangay Seal of Good Housekeeping program in Quezon City.

She is also the Chairperson of the Congressional Spouses Foundation, Inc. (CSF), a Kaya Natin Champion for Good Governance, and the Founding Chair of the Quezon City Performing Arts Development Foundation.

Vice Mayor Belmonte has a Masters in Philosophy Degree from the Institute of Archaeology, University College London and a Masters Degree in Museum Studies from Leicester University. She finished college at the Ateneo de Manila University and received the Gerry Roxas Leadership Award upon completing high school at the Poveda Learning Centre.

조이 벨몬트는 퀘존 시의회의 현직의원으로서, 퀘존시 관광산업국 대외협력이사, 퀘존시 악용증독이법을 위한 자문단 위원장, 퀘존시 스무스 프로그램 총괄, 여성발전위원회 공동위원장, 퀘존시 영화위원회 위원, 지역주택정책위원회 위원, 지역아동보호위원회 위원, 재난위험감감·관리위원회 위원으로 활동 중이다. 또한 빙곤토치동향(TRTC), 지역빈곤토지침행부의 의장을 역임하였다.

최근 벨몬트 부시장은 가와드 솔로 몽 바안 마닐라 어워즈(Gawad Sulu ng Bayan)에서 '최고의 부시장상'을 수상하였다. 벨몬트 부시장의 임기는 17년 만에 필리핀 나루부(DLG)는 필리핀 수도권(NCR)의 최고 시의회에 수여하는 최고의 지방법부상을 수여하였다. 벨몬트 부시장의 발의로 퀘존시는 여러 성장적인 법안을 통과시켰는데, 2012 퀘존시 아동보호법, 성폭력 보호센터 개설을 위한 조례, 관광산업 부설립 안, 바닐륨 사용 감소를 위한 조례, 지역경제 발전을 위한 인센티브 법, 주택·지역사회 개발 및 이주관련 부서의 신규설립을 위한 법안 등이 있다.

그녀는 또한 필리핀국회비우자재단(CSF) 이사장으로 활동하며 성공적인 시장을(Good governance) 위한 카야 나린 챔피언(Kaya Natin Champion) 운동에도 참여하고 있으며 퀘존시 공연예술발전재단의 초대 이사장을 지냈다.

벨몬트 부시장은 런던대학교 고고학대학원(Institute of Archaeology, UCL)에서 철학 석사, 리스터대학교(Leicester University)에서 박물학(Museum Studies) 석사 학위를 취득하였다. 그녀는 아테네오 대 마닐라 대학교(Ateneo de Manila University)와 포네이 고등학교를 졸업 하였으며 고등학교 졸업 당시 저리 록사스 리더십 어워드(Gerry Roxas Leadership Award)를 수상하였다.

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Commitments and achievements of the cities | 도시 발표

Johannes van der Merwe

Councilor, Cape Town Metropolitan Council, South Africa

요한 반 더 멀위

케이프타운(남아공) 시의원

- Mayoral Committee Member for Energy, Environment and Spatial Planning since 1 June 2014.
- Born in Ceres. Matriculated from Piketberg High School after which I attended several Universities and attained degrees in Economics; Law and Politics.
- Obtained a PHD in Economics and Politics at the University of the Orange Free State, In 1998.
- Served in capacity of Councillor since 2008.
- Former Chairperson of the Finance Portfolio Committee.
- Founder and current Director of the Greater Tygerberg Partnership (GTP) and also the City of Cape Town's representative in the Voortrekker Road City Improvement District Board (VRCID).
- Member of Sub-Council 7.
- Member of the Mayoral Urban Regeneration Programme Sub-Committees.
- Member on the Belville Area Co-Ordinating Committee.
- Former Member of the Finance and Administration Working Group at SALGA Western Cape.
- An ambassador of the Khayelitsha Learner Empowerment Project.
- Actively involved in the development and upgrade of the Khayelitsha CBD.
- Former member of the Council of UWC (University of the Western Cape) where I was the Chairperson of the Audit Committee and the Institutional Forum.
- Former Chairperson of Laerskool Belville Noord's Governing Body.
- A member of a Retirement Village's Governing Body as their ombudsman.
- Actively involved in Western Province Rugby.
- Avid cricket enthusiast
- I reside in Ward 3 in the Northern Suburbs.
- I am married to Elsabe Van Der Merwe who is a Pharmacist and have two children. A daughter who is a qualified attorney and also a son.

- 2014년 6월 1일부로 에너지, 환경 및 공간계획 위원회 위원으로 재직 중
- 서비스 출신. 피켓버그 고등학교 졸업 후 여러 대학교에 재학 및 경제학, 법학, 정치학 학위 취득
- 1998년 오렌지자유주(Orange Free State) 대학교에서 경제학 및 정치학 박사 학위 취득
- 2008년부터 시의원으로 활동 중
- 전 개점 프트볼리오 위원회 의장
- 타이거버그 빌전 마트너십 (the Greater Tygerberg Partnership) 설립자 및 현 디렉터, 볼트레커 로드시티 개선 지역 위원회 (VRCID)의 케이프타운 시 대표
- 제 7 지역 의회 (Sub-council 7) 의원
- 도시 재생사업 프로그램 문과위원회 위원
- 범별 지역 조정위원회 위원
- 전 서케이프타운(Western Cape) 남아프리카 지방정부연합 (SALGA)의 재정 및 행정 실무그룹 회원
- 카예리트사(Khayelitsha) 학습 참여 프로젝트 대사
- 카예리트사 중심 업무 지구 개발 및 빌전 활동에 활발한 참여
- 전 서케이프타운 대학교 (UWC) 의회 회원, 과거에 서케이프타운 대학 감사위원장 및 대학 모임 의장으로 활동
- 전 벨빌누르크에어 초등학교 이사장
- 은퇴자 마을 이사회 행정 감찰관 회원
- 웨스턴 주 럭비 경기에 활발히 참여
- 열렬한 크리켓 경기 팬
- the Northern Suburbs 지역 Ward 3 가에 거주 중
- 악시안 앤서니 반 더 메이브와 결혼, 습하여 변호사인 딸과 아들 두 자녀를 두었음

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Commitments and achievements of the cities | 도시 발표

Roger Lachance

Director of Department of Environment, City of Montréal, Canada

로저 라찬스

몬트리올(캐나다) 국장

An engineer with a graduate diploma in environment and prevention, Roger Lachance has been the director of Montréal's municipal environmental department since May 2012. Previously, he was the associate director of the same department from 2010 to 2012. From 2004 to 2010, he held the division chief position at the Complexe environnemental St-Michel. Prior to arriving at the Ville de Montréal, Mr. Lachance worked for 17 years in the manufacturing sector, where he held various positions managing multidisciplinary teams and related projects, including environmental management, and infrastructure installation and management. His current mandates contribute to improving living conditions and quality of life for citizens of the Montréal agglomeration, encompassing environmental planning and monitoring. This includes the control of industrial discharge in the atmosphere and waterways; contaminated soils; planning for the management and disposal of residual materials; as well as the inspection of food in Montréal restaurants and retail establishments. In addition, his department develops policies and programs related to its sector, in particular for issues related to greenhouse gas reduction, and climate change adaptation.

로저 라찬스는 환경 및 대량 분야에서 석사 학위를 가진 인지니어로서, 2012년 5월부터 몬트리올 지방 환경부장으로 자작 중이다. 과거에 그는 2010년부터 2012년까지 동일 부서에서 차장으로 자작했으며, 샘마일-Michel 환경복합건물의 부시장으로 2004년부터 2010년까지 자작했다. 로저 라찬스는 몬트리올 시로 부임하기 전 제조업 분야에서 17년간 종사했으며 환경 관리, 기반 시설 설치 및 관리 등 다양한 전문 분야의 팀뿐만 아니라 관련 프로젝트를 관리하는 다양한 직책을 담당했다. 로저 라찬스는 현재 몬트리올 중심지 내 시민들의 생활 환경과 삶의 질을 개선하는 업무를 담당하고 있으며, 환경 계획과 감독을 맡고 있는 업무를 담당하고 있다. 그는 대기 및 수로의 산업 폐기물을 관리, 오염된 토지, 잔류 물질 관리 및 처리 계획 업무와 몬트리올 식당 및 소매점의 식품 검사 업무도 수행하고 있다. 추가적으로 그의 부서는 담당 분야와 관련된 정책 및 프로그램도 기획하고 있으며 특히 온실가스 배출 감소와 기후 변화 적응에 관련된 문제들을 다루고 있다.

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Commitments and achievements of the cities | 도시 발표

Perttu Pohjonen

Special Envoy of Deputy Mayor Pekka Sauri, City of Helsinki, Finland

퍼트 푸호넨

헬싱키(핀란드) 부시장 특사

Perttu Pohjonen is a Senior specialist on sustainable procurement and environmental management. He is in charge for developing sustainability criteria for procurement as well as guiding the implementation. He was the very first full time sustainable public procurement specialist in Finland. He managed a research and development project for Helsinki Metropolitan area to implement Climate strategy of the Metropolitan area resulting procurement guidelines and CO2 calculators for procurers. He is an author of Sustainable procurement guidelines 2015 (in Finnish) and principle educator for sustainable procurement in the City of Helsinki. Perttu Pohjonen is a member in Energy efficiency board for the city (est. 1974). He was developing both procurement strategy and environmental policy for city of Helsinki. He has been invited to give lectures and run workshops at many organizations both governmental and municipal such as ministry of employment and the economy of Finland, University of Helsinki and many cities. He is a former chair of the Finnish Eco Procurement network. He is also a general manager at Society for Vipuri School of Economics the founding partner of Green Campus Innovations.

퍼트 푸호넨은 지속 가능한 공공조달 및 환경관리 선임전문가이다. 헬싱키 시정부에서 지속 가능한 공공조달 기준을 세우고 그 기준을 실제로 시정부 조달업무에 적용시키는 업무를 담당하고 있다. 핀란드 최초의 지속 가능한 공공조달 전문가인 푸호넨은 헬싱키시와 기후변화전략과 관련한 연구개발프로젝트를 진행하면서 공공조달 가이드라인과 조달계약 당사자들이 사용할 수 있는 이산화탄소 배출량 계산기를 개발한 바 있다. 그는 《2015 지속 가능한 공공조달 가이드라인》의 저자이며(핀란드어) 헬싱키 시정부에서 지속 가능한 공공조달과 관련한 강의를 전달하고 있다. 퍼트 푸호넨은 1974년에 설립된 헬싱키에너지효율위원회(Energy efficiency board)의 위원으로도 활동하고 있다. 그는 헬싱키시의 공공조달 전략과 환경정책을 수립하는 역할을 담당하였다. 그는 핀란드 고용경제부, 헬싱키대학교 등 정부와 치방자치단체를 비롯한 여러 기관에서 강의와 워크숍을 진행하여왔다. 그는 핀란드 환경친화적 조달네트워크(Finnish Eco Procurement Network)의 의장을 역임하였으며 현재는 비푸리 경제대학 협회(Society for Vipuri School of Economics)의 국장 및 그린캠퍼스아이노베이션즈(Green Campus Innovations)의 초대 마인더로 자작하고 있다.

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Commitments and achievements of the cities | 도시 발표

Peter Szegvari

Senior Advisor to the Lord Mayor, Capital City of Budapest, Hungary

피터 제그바리

부다페스트(헝가리) 시장 자문

Lawyer, Senior Advisor of Lord Mayor of Budapest, passed the Exams in the ELTE Budapest University, where he nowadays is taking lectures on the Constitutional Law as a Titular Assistant Professor. Meanwhile he is teaching regional and local governance and development policy at the Corvinus University of Budapest, King Sigismund College of Budapest and Budapest School of Politics. Former time he was dealing regional development policy and public administration reform program; as Chief Advisor of Prime Minister Office and after as President of Hungarian Regional Development Office. He has an experience in the sub-national governance too, in the Transition Period, since 1988 till 1992 he was the General Secretary of City Council of Budapest. He has some publications on local and regional governance, regional and rural development, furthermore public administration and regulatory reform. He was many times speaker in domestic and international conferences. He is international expert of Canadian – Ukrainian Regional Development Program since 2005 until now. He was the expert of Committee of Regions of EU for 'Eastern Partnership' and for 'EU-Ukraine Relationship' programs. He was one of the founders of Chamber of Hungarian Public Administration, and he is special expert of Association of Hungarian Local Governments.

피터 제그바리 박사는 변호사이자 부다페스트 시장 수석 고문직을 맡고 있다. 부다페스트 외즈베시 콘란드대학교 (ELTE)에서 변호사 시험에 합격하였으며 현재 동대학 조교수로서 한법률 강의하고 있다. 세그바리 박사는 부다페스트 코르비누스 대학교, 킹 시지스문드 대학교, 부다페스트 정치대학교에서도 지역 및 지방 정부 활동과 개발 정책에 대해 강의하고 있다. 제그바리 박사는 국무총리실 삼임 고문 및 차관 협의회 지역개발국 국장으로서 지역 개발 정책 및 행정 혁신 프로그램을 담당하였다. 제그바리 박사는 1988년부터 1992년까지의 동유럽 체제 전환기에 부다페스트 시의회 사무총장으로서 지방 정부 운영에도 경험을 쌓았다. 제그바리 박사는 차관 및 지역 정부 활동, 지역 및 지방 발전, 행정 및 규제 개혁에 관한 저서를 몇 권 집필하였으며, 국내외 다양한 학회의 연사로 활동하였다. 세그바리 박사는 2005년부터 현재까지 캐나다-우크라이나 지역 개발 프로그램에 대한 국제 전문가로 활동하고 있다. 제그바리 박사는 '동부 파트너십(Eastern Partnership)'과 'EU-우크라이나 관계(EU-Ukraine Relationship)' 프로그램에 대한 EU 지역 위원회의 전문가로 활동했다. 세그바리 박사는 헝가리 행정 학의소의 참임자 중 한사람이며, 헝가리 지방 정부 협회의 특별 위원이기도 하다.

Interactive interview round | 인터뷰 세션



Facilitator | 퍼실리테이터

Carlos de Freitas

Cities Climate Finance Leadership Alliance (CCFLA) Secretariat; Director of Programs of FMDV - Global Fund for Cities Development

카를로스 디 프레이타스

CCFLA 사무국 프로그램부장

Working since 1999 in the field of sustainable development, winner of an AVINA award in 2008 for investigative journalism, fellow researcher at the Veblen Institute for Economic Reforms, Carlos de Freitas is specialist in the multi-stakeholder coordination, and in the creation, implementation, evaluation, adaptation and dissemination of development programs, especially on financing and local economic development. He worked in the Coordination Committee responsible for the preparation and representation of French NGOs Coalition at the World Summit on Sustainable Development in South Africa in 2002. Responsible for strategic development and communication for an asset management company dedicated to seed capital for innovative companies, he was naturally interested in the innovative Palmas system of Community Development Banks in Brazil. Launching the Palmas Institute Europe, he co-created with academic researchers the biennial First International Week of Community and Complementary Currencies in Lyon (France) in February 2011, with over 250 representatives of associations, citizens, researchers, local authorities, central banks, artists, public institutions, coming from 20 countries. Since 2012, he is also Director of Programs for FMDV-Global Fund for Cities Development, an international alliance of local, metropolitan and regional governments dealing with local economic development and financing solutions. He co-authors articles and edits associative or mass-market publications, such as *Viva Favela! When the poor take their destiny in their own hands* - Michel Lafon Publishing (France, 2009), also published in Brazil in 2013.

카를로스 디 프레이타스는 1999년부터 지속가능개발 분야에 몰입하였으며, 2008년 당시 보도로 아비나상(AVINA Award)을 수상했다. 비블렌경제학연구소(Veblen Institute for Economic Reforms)에서 멤버로 연구 주제으로 자작 중이다. 또한 디자 이해관계조정 전문가, 개발 프로그램 설계/실행/평가/적용/확산 활동을 진행하고 있으며 특히 지역경제개발 자금 지원 분야에서도 전문가로 활동하고 있다. 프레이타스는 남아프리카공화국에서 개최된 2002 지속가능발전 세계정상회의를 준비 대표하는 조성위원회에서 근무했다. 그는 혁신기업에 대한 중자금을 제공하는 자선관리 회사에서 전략 개발 및 커뮤니케이션 업무를 진행하는 과정에서 자연 스럽게 브라질의 지역사회 개발은행(Community Development Bank)의 혁신적인 팔마스 시스템(Palmas system)에 관심을 갖게 되었다. 프레이타스는 유럽팔마스연구원을 설립한 후 2011년 2월 동료연구원들과 함께 각년으로 개최되는 '제희 세계 공동체기본문화 주간'을 출범시켰으며, 전 세계 20개국의 지방정부, 협회, 연구소, 중앙은행, 시민사회 예술가 대표 250여 명이 참가하였다. 프레이타스는 2012년부터 지역 경제개발 및 자금조달을 위한 전 세계 지방자치단체 연합인 '도시창조를 위한 글로벌 펀드 (Global Fund for Cities Development)'의 구제역 프로그램 담당 총괄이사로 근무하고 있다. 이어에도 그는 다수의 저서를 공동집필·강수하여 저술 활동을 펼쳐왔다. 특히 2009년 프랑스에서 출판된 그의 공동저서 「설명을 최종으로 바꾼 빈민가 사람들 (Viva Favela! When the poor take their destiny in their own hands)」은 2013년 브라질에도 출판되었다.

Interactive interview round | 인터뷰 세션



Challenges and opportunities for financing local climate actions | 도시와의 대화

Tri Rismaharai

Mayor, Surabaya Metropolitan City, Indonesia

트리 리마하라이나

수라바야(인도네시아) 시장

TRI RISMAHARINI is the first female mayor in Surabaya. Before being elected as Mayor, she served as government employee in Surabaya City Government for more than 20 years. In 2003, when she was the Head of Surabaya Program Controlling Division, she implemented the first e-procurement system in Indonesia even prior to national direction. It makes Surabaya leading in e-government implementation. She is also known for her success to transform Surabaya from dirty and dry to green and clean city. She has started the hard work since she was the Head of Surabaya Public Cleanliness and Parks Department in 2005 by converting barren lands and gas stations into beautiful city parks. As a result, Surabaya won the highest national awards on environment and some international awards. Being unique in leadership style, Mayor Tri has been featured in many national and international media and received

Being unique in leadership style, Mayor Tri has been featured in many national and international media and received several awards, including the Women Leader Award by Globe Asia in 2012 and listed as one of the 10 Inspiring Women 2013 by Forbes Indonesia. A mother of two, Tri Rismaharini believes that a city shall be home for its dwellers and giving example is the best way to educate and engage the community.

She completed both her Bachelor Degree on Architecture (1987) and Master Degree on Urban Development Management in the Sepuluh Nopember Institute of Technology, Surabaya (2002) as well as course on Urban Development Management in Institute for Housing and Urban Development Studies, Rotterdam (1996).

인도네시아 수리버마(Surabaya)의 첫 여성시장인 트리 리마하라이니(Tri Remeherini)는 시장으로 당선되기 전 수리야바 시정부에서 20년 이상 근무하였으며, 2003년 시립관리부 무서장으로 임명되었다. 그녀는 중앙 정부가 지시하기도 전에 인도네시아 최초의 전자조달시스템(e-procurement system)을 구축하여 전자정부 운영에 있어 선도적인 역할을 하였다.

그녀의 또 다른 업적은 건조하고 지저분하던 수리아바 시내를 깨끗한 녹지도시로 변신시킨 것이다. 리마하리아니 시장은 2006년 환경미화 공원관리부 부서장 사장을 부임하면서 황폐한 땅과 주유소를 아름다운 공원으로 바꾸는 작업을 꾸준히 진행하여왔다. 그 결과 수리아바시는 환경개선의 업적을 인정받아 인도네시아에서 가장 권위있는 국가상을 수상했으며, 해외에서도 친환경 시설을 수상했다.

리마하라야니 시장은 독특한 리더십 스타일로 국내외 매체의 주목을 끌기도 하였다. 2012년에는 글로브아시아(Globe Asia) 성지도자상을 수상하였으며, 2013년에는 인도네시아 포브스(Forbes)로부터 '영향력 있는 여성 10인'으로 선정되었다. 두 마디의 어머니인 리마하라야니 시장은 시민들이 자신이 사는 도시를 편안하게 느끼야 한다며 지역사회와 참여를 아끼어내는 활동을 보여온 모범사례를 제시하는 것이라고 강조한다.

리마하라이나 사장은 수리아바시에 소재한 세풀러 노벨비 기술 대학교(Sepuluh Nopember Institute of Technology)에서 1996년에 건축학 학사, 2002년에는 도시개발관리학 석사 학위를 취득하였다. 또한 그녀는 1996년 네덜란드 로테르담 소재 어마스대학교(Erasmus University) 주택도시개발대학원에서 도시개발관리학 과정을 수료하였다.

Interactive interview round | 인터뷰 세션



Challenges and opportunities for financing local climate actions | 도시와의 대화

Noel Rosa

Mayor of Legazpi City, Philippines; Focal Mayor of Environment, Climate Change and Disaster Risk Reduction and Management of League of Cities of the Philippines.

노엘 로질

레가즈피(풀리핀) 시장

- A graduate of Adamson University with the degree of Bachelor of Science in Industrial Engineering
 - Holder of Master's Degree in Business Administration at Aquinas University where he also took up Bachelor of Laws
 - An undefeated politician who started his career in politics as Barangay Chairman of Barangay Gogon, Legazpi City, elected and served as City Councilor for two (2) terms and won as Mayor in 2001; completed three (3) consecutive terms as Chief Executive and re-elected with no opponent in 2013;
 - A strong advocate of public-private partnership, good governance and transparency;
 - A visionary leader whose utmost concern is the welfare of the majority, especially the marginalized sector of society;
 - Consistently brought Legazpi City to higher levels of social development and economic prosperity as well as wider horizons of opportunities;
 - A Tourism Champion, an Engineer by profession and an outstanding public servant by merit and performance;
 - The multi-awarded Chief Executive of Legazpi City;
 - Capacitated Legazpi to receive notable awards such as Gawad Kalasag, Seal of Good Housekeeping, Hall of Famer Red Orchid Award as a Smoke-Free City, Rice Achiever Award, Sandugo National Award, Gawad Pamanaang Lahi Award, Business-Friendly City Award, Top 14 Major Tourist Destination in the Philippines as recognized by the Department of Tourism, One of the Fastest Growing Small Cities in the Philippines as acclaimed by the Asian Institute of Management, and One of the Top 20 Most Livable Cities in the Philippines;
 - Married to former Mayor Carmen Geraldine Bamarmeda, with three children Princess, Gerald Noel and Gilian Noelle,
 - 2nd Most Livable Cities in the country
 - Galing Pook Awardee
 - Institute of Solidarity in Asia Silver Governance Trailblazer Awardee
 - PAG ASA Wind Vane Awardee
 - Gawad Kalasag 2014 Best CODRMC under Component / Independent City Category

• 캘리민 애덤슨대학교(Adamson University) 산업고등학교

•필리핀 아카데미아 대학교(Academy University) 전공석사 과정에 편입

- * 레가스피 시 고관 바랑가이마을의 의장으로 정치 생활을 시작한 시의원으로 당선되어 두 임기에 걸쳐 활동함. 2001년 시
회선기자회장 선출된 후 세 번 연임하였으며, 2009년 선거에서는 단입후보로 재선에 성공함.
- * 정운영이 있어 민관협력 향후화 시진모연 블랙홀을 지향함

‘다수를 위한 평화정책’(특히 소외계층)을 통해 최고운영권을 확보하는 계획이다.

마카스파 시의 사회적·경제적 발전을 지속적으로 촉구하며, 새로운 가치를 꾸

이제 그들은 그들이 원하는 대로 살고 싶어합니다. 그들은 그들이 원하는 대로 살고 싶어합니다.

- 관광산업 전문가이자 앤지니어, 성과로 말하는 뛰어난 공직자
- 레가스피 시 시장으로서 디수의 수상경력
- 칼라식 어워드(Gawad Kalasag Award), 깨끗한 도시상(Seal of Good Housekeeping), 레드 오키드 어워드(Red Orchid Award) 금연도시상, 라이스 우수성과상(Rice Achiever Award), 산두고 내셔널 어워드(Sandugo National Award), 가윗 마마 낭 라히 어워드(Gawad Parang Lahi Award) 등 저명한 상을 다수 수상하였음. 필리핀 관광청 지정 필리핀 14대 관광지, 아시아결명연구소 지정 #르가 성장하는 필리핀 도시 기업하기 좋은 도시, 필리핀에서 가장 살기 좋은 도시 20위에 선정되었음.
- 천연 시장인 카르멘 저립던 바라메다와 결혼. 슬하에 프린세스, 자랄드 노엘, 질리안 노엘 삼 남매를 두었음.
- 필리핀에서 가장 살기 좋은 도시 2위
- 칼링 푸 어워드(Caling Pook Award) 수상
- 아시아연대연구소(Istitute of Solidarity in Asia) 거버넌스 혁신상 부문 은상 수상
- 필리핀 기상청 재해위기경감관리상(PAGASA Wind Vane Award) 수상
- 2014 칼라식 어워드 도시부문 '최고의 재해 위기경감 관리 우수화상' 수상

Interactive interview round | 인터뷰 세션



Challenges and opportunities for financing local climate actions | 도시와의 대화

Diego Enriquez

Municipality of the Metropolitan District of Quito, Ecuador

디에고 엔리케즈

키토(에콰도르) 환경과장

He is currently Climate Change Director in the Environment Secretariat of the Municipality of Quito where he has worked the last five years. It has an experience of over ten years in the public and private sectors, coordinating processes on sustainable development, local environmental management, climate change and energy. He has led the local climate planning in Quito, which has been recognized internationally, and the implementation of local adaptation and mitigation projects. He has participated in more than a dozen international courses on climate change and cities, and he has been a speaker at another dozen seminars and international events on sustainability and urban development. He studied Environmental Engineering at the Central University of Ecuador, and the Socio-Environmental Studies Program at FLACSO Ecuador.

디에고 엔리케즈(Diego Enriquez)는 최근 5년간 키토(Quito) 지방정부 환경사무국의 기후변화 국장으로 재직 중이다. 키토 시는 곰곰 및 민간 분야에서 10년 이상 업무를 진행하였으며 지속가능 개발, 지역 환경 관리, 기후변화 및 에너지 분야에서 다양한 업무를 기획하였다. 엔리케즈는 국제적으로 잘 알려진 도시 키토에서 지역 기후변화 대응계획 업무를 이끌어왔으며, 기후변화에 대한 지역 단위의 적용 및 원화 프로젝트를 진행하였다. 엔리케즈는 기후변화와 도시에 관한 수십개의 국제 강의에 참여하고 있으며 그 외 지속 가능성 및 도시 개발에 관한 수십개의 세미나 및 국제 행사의 연사로 활동하였다. 엔리케즈는 에콰도르 중앙대학교에서 환경 공학을 공부했으며, FLACSO 에콰도르 대학에서 사회환경 연구 프로그램을 공부했다.

MEMO



Seoul Mayors Forum
on Climate Change 2016

Mayoral Session 1

Cities implementing climate actions

시장세션 |

기후변화 대응을 실천하는 도시



Keynote Presentation | 기조발표

Seoul's best practice | 서울시 기후변화대응 우수사례

Won-Soon Park

Mayor, Seoul Metropolitan Government, Republic of Korea and ICLEI President

박원순

서울시장



I·SEOUL·U

Climate Change

Seoul is taking climate action
together with citizens



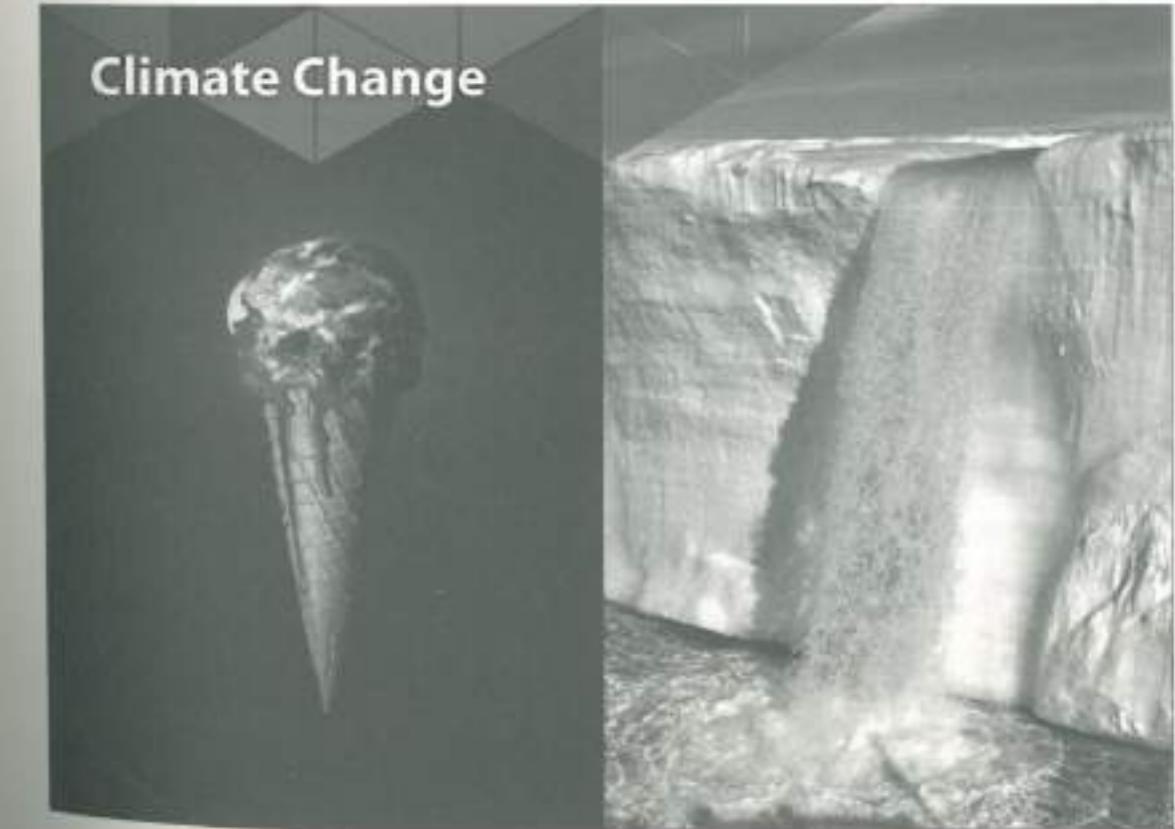
SEOUL METROPOLITAN
GOVERNMENT

Gaia Theory



James
LOVELOCK
The
Vanishing
Face
of
Gaia

Climate Change





Citizens are taking climate action

Energy Guardian Angel Corps



Elementary and
Middle School Students
22,000 persons



Citizens are taking climate action

Eco-mileage



<http://www.ecomileage.or.kr>
Membership
1.82M persons
1/6 of Seoul's Total Population

2015 / 2009 ~
41 / 1.95M Tons
4% of Seoul's Total GHG Emissions Reductions



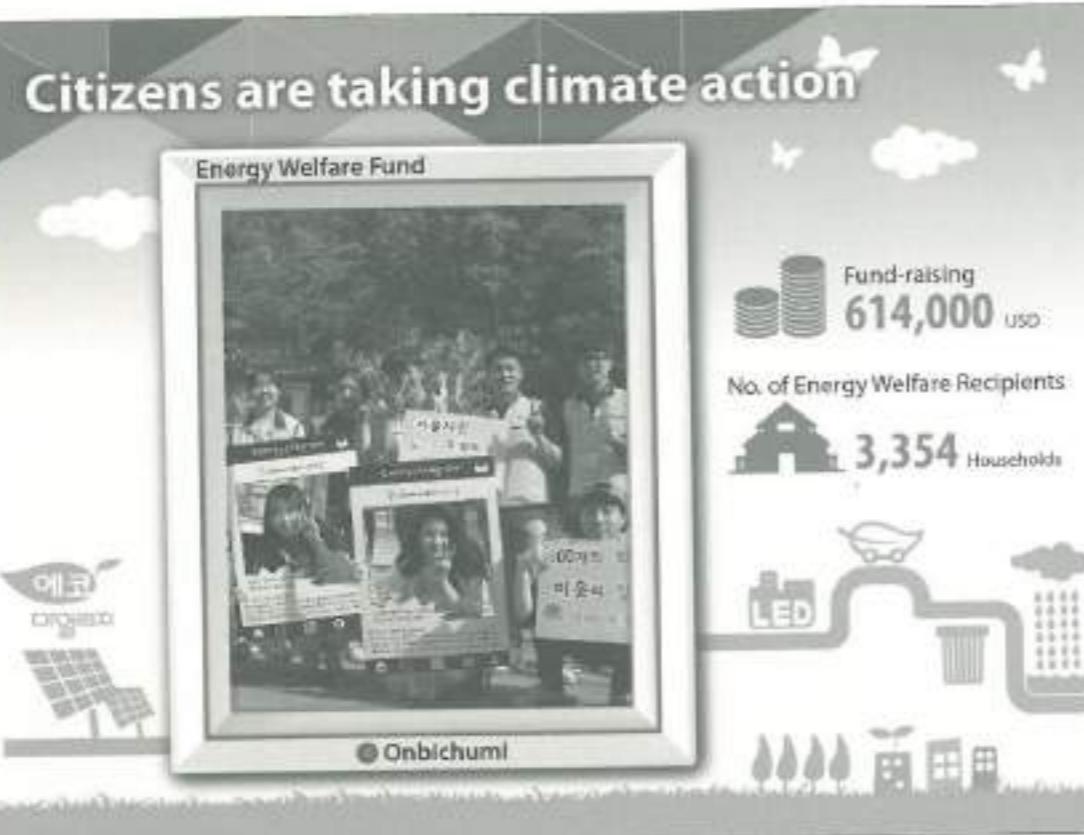
Citizens are taking climate action

Green Leaders



No. of Green Leaders
17,800 persons





Energy Independent Village

The villages are generating the energy they need



Micro PV Panels

Households are becoming energy generators from mere consumers



Car-Sharing

Ownership to Sharing... Car-sharing services are available at anywhere at any time



Cool Biz



Progress Made Together With Citizens



When Citizens Act Together, They Can Change Their Cities
When Cities Act Together, We Can Change The World

YOU & I
STOP CO₂

DAEJEON YOUTH
SEOUL METROPOLITAN GOVERNMENT





MEMO



Local climate actions - discussion with mayors | 도시 발표

Yu-Ih Hou

Deputy Mayor, New Taipei City Government, Chinese Taipei

우-이 후

뉴타이페이(대만) 부시장



Enhance the Resilience of the city,
to build the sustainable, liveable

新北市
New Taipei City

First Stage Commitment

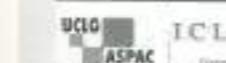
Reducing GHG emissions to
2008 levels by 2016

Next Stages Commitment

Reducing GHG emissions to
25% below 2005 levels by 2030
50% below 2005 levels by 2050

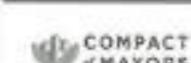


Relevant Initiatives



ICLEI

Introducing ICLEI in 2004
Joining ICLEI in 2008



First Asian City
Fully Compliant



2015 TOP 10



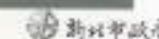
Svolv Declaration

PARIS2015
COP21-CMP11

Climate Summit for
Local Leaders



Seoul Mayors Forum on
Climate Change 2016





Adaptation



Participatory Budget

- 81% Starting to pay attention to budget implementation
- 56% Believing to increase transparency of government affairs
- 68% Believing to let the overall development be better
- 62% Agree to keep join participatory budget



MEMO

Seoul Mayors Forum
on Climate Change 2016

Mayoral Session2

- Implementation of global agreements
- What can cities and local governments do?

시장세션 II

파리협정 이행기반 마련을 위한 도시의 역할



Keynote Presentation | 기조발표
Unpacking the New Urban Agenda | 새로운 도시의제 파악하기

Robert Kehew

Leader, Climate Change Planning Unit, UN-Habitat

로버트 케우

UN해비타트 기후변화 계획팀장

Seoul Mayors Forum
on Climate Change
1-2 September 2016

UN HABITAT
FOR A BETTER URBAN FUTURE

*Unpacking the
New Urban Agenda*

Outline – Unpacking the New Urban Agenda

1. Upcoming events
(*Road to Habitat-3*)
2. Overview of New Urban Agenda
3. Feeding results of Seoul Mayor's Forum into Habitat-3 process



Disclaimer

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UN HABITAT
FOR A BETTER URBAN FUTURE

1. Upcoming Events 2016 (*Road to Habitat-3*)



□ 12-15 October
Bogota, Colombia
World Summit of Local & Regional Leaders (UCLG)



□ 16 October
Quito, Ecuador
World Assembly of Mayors "mechanism thru which the local government constituency will make its inputs to the New Urban Agenda"

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UN HABITAT
FOR A BETTER URBAN FUTURE

1. Upcoming Events 2016 (*Habitat-3*)

□ 17-20 October

Quito, Ecuador

3rd UN Conference on
Housing & Sustainable
Urban Development
(‘Habitat-3’ or ‘H-3’)



➤ www.habitat3.org

➤ UN system-wide conference (H-2 in 1996)

Question: "Why do we spend so much
time & effort on these events?"

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UN HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

New Urban Agenda

- Will be main outcome document from H-3
- Will provide **roadmap** for sustainable urban development



Focus of review:
cities & climate change

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UN HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

New Urban Agenda

- Extensive consultative process
- 3rd H-3 Preparatory Meeting in Indonesia (July 2016) yielded...
‘Surabaya Draft’
(28 July)

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UN HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda



Surabaya Draft
organized in part according to...
3 pillars of sustainable development

UN HABITAT
FOR A BETTER URBAN FUTURE

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2. Overview of New Urban Agenda

Surabaya Draft

I. Quito Declaration (3 ½ pages)

II. Quito Implementation Plan (18 pages)



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FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

I. Quito Declaration (3 ½ pages)

- Shared Vision ←
- Principles
- Commitments
- Call for Action



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UN-HABITAT
FOR A BETTER URBAN FUTURE

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2. Overview of New Urban Agenda

I. Quito Declaration

"Shared Vision"

□ Social, economic, environmental aspects

□ **Environmental vision** includes:

"... Reduce vulnerability, build resilience & responsiveness to natural & man-made hazards, and foster mitigation & adaptation to climate change". (Para. 11)



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UN-HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

II. Quito Implementation Plan

A. Transformative Commitments

- Social
- Economic

□ Environmental ←

B. Implementation ←

C. Follow-up & Review



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FOR A BETTER URBAN FUTURE

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2. Overview of New Urban Agenda

II. Quito Implementation Plan

A. Transformative Commitments

- "Environmentally sustainable & resilient urban development"

"Cities... face unprecedented threats from... natural & man-made disasters, & **climate change & its related risks**, undermining efforts to end poverty... & achieve sustainable development". (para. 61)

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FOR A BETTER URBAN FUTURE

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2. Overview of New Urban Agenda

II. Quito Implementation Plan

A. Transformative Commitments

- Environmentally sustainable development

"Cities [play a] central role in **mitigation & adaptation efforts related to climate change** & in the use of resources & ecosystems...". (para. 61)

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FOR A BETTER URBAN FUTURE

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2. Overview of New Urban Agenda

II. Quito Implementation Plan

A. Transformative Commitments

- Environmentally sustainable development

... Therefore, the way they are

planned, financed, developed,

built, governed, & managed

has a direct impact on sustainability & resilience well beyond the urban boundaries". (Para. 61)

UN-HABITAT
FOR A BETTER URBAN FUTURE

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UN-HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

II. Quito Implementation Plan

A. Transformative Commitments

- Environmentally sustainable development

"We commit to... the **sustainable management of natural resources** in cities... in a manner that... reduces greenhouse gas emissions & air pollution, & promotes disaster

risk reduction... thru environmentally sound... planning, infrastructure & basic services...". (Para. 63)

UN-HABITAT
FOR A BETTER URBAN FUTURE

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085

2. Overview of New Urban Agenda

II. Quito Implementation Plan

B. Effective Implementation

□ Establishing a supportive framework

- ✓ Establish policy frameworks
- ✓ Build capacity
- ✓ Promote participatory processes



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UN-HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

II. Quito Implementation Plan

B. Effective Implementation

□ Planning & managing urban spatial development

- ✓ Support integrated planning
- ✓ Prevent urban sprawl
- ✓ Upgrade, integrate slums
- ✓ Promote sustainable urban mobility & basic service provision



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UN-HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

II. Quito Implementation Plan

B. Effective Implementation

□ Means of implementation (1)

- ✓ Integrated financing frameworks
- ✓ "We support access to... **Green Climate Fund** [& other climate & environmental funds]... to secure resources for **climate change adaptation & mitigation plans, policies & actions** for subnational & local governments. We will collaborate with... financial institutions... to develop climate infrastructure solutions & create appropriate mechanisms...". (Para. 139)



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UN-HABITAT
FOR A BETTER URBAN FUTURE

2. Overview of New Urban Agenda

II. Quito Implementation Plan

B. Effective Implementation

□ Means of implementation (2)

- ✓ Legal & regulatory frameworks
- ✓ Capacity development
- ✓ Information & communications technology
- ✓ Science, research, innovation



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FOR A BETTER URBAN FUTURE

3. How to provide input into New Urban Agenda



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FOR A BETTER URBAN FUTURE

3. How to provide input into New Urban Agenda

Is late in Habitat-3 process but...

✓ Prior to 7 September – Send Outcome of Seoul Mayors' Forum to H-3 Secretariat, "For information of co-facilitators of 'Informal Consultation' (New York 7-9 September)

✓ 16 October –
Present outcome at
World Assembly
of Mayors (Quito)



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FOR A BETTER URBAN FUTURE

UN-HABITAT
FOR A BETTER URBAN FUTURE

THANK YOU!

Robert.Kehew@unhabitat.org

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Local climate actions - discussion with mayors | 도시 발표

Stephany Uy-Tan

Mayor, City of Catbalogan, Philippines

스테파니 위-탄

катбалоган(필리핀) 시장

PURSUING A BLUE ECONOMY AND HARNESSING A RENEWABLE ENERGY SOURCE

Adopting an Ecosystem Approach to Fisheries Management (EAFM) and pioneering in tidal energy power generation

GLOBAL COVENANT OF MAYORS FOR CLIMATE & ENERGY
CITY OF CATBALOGAN, PHILIPPINES

Catbalogan City



Catbalogan is a new city, historically the provincial capital or the "CABECERA" (Center) of the island province of SAMAR since the Spanish time until the island was divided into three provinces. Then it became the Capital of Samar Province, the third largest island in the Philippines.

Geographically

- ✓ Has more than 25 islands and islets
- ✓ With 24 coastal communities
- ✓ With 90 km. coastline
- For Samar Province
 - ✓ Seal of the Provincial Government
 - ✓ The trading center
 - ✓ Processed/Fresh Marine products and Delicacies abound in the area
- For Samar Island
 - ✓ Shuttle Van Services Capital of Samar Island with a trip every ten to thirty minutes to and from Tacloban City & Carbayog City
 - ✓ Stop-over Capital of the Island of Samar
 - ✓ Center of Education of the whole Island of Samar
 - ✓ Transshipment Point of Basic commodities of the Island of Samar
- For the Region
 - ✓ Fish Trading Center of the Region
 - ✓ Trucking Services Capital of the Region



Catbalogan City Blue Economy Project

Climate Commitments



- Develop our fishing industry thru the Ecosystem Approach to Fisheries Management (EAFM) which integrates the management of land, water, and living resources that promotes conservation and sustainable use in an equitable way by combining:
 - regulated capture fishing,
 - (marginal) fisherfolk-driven aquaculture, and
 - restoration of habitats (mangrove forests, seagrass beds and coral reefs).
- Pioneer the harnessing of "tidal energy" as source of Renewable Energy by constructing a RC3 in the causeway, which also makes the area suited for:
 - ✓ Aquaculture, and
 - ✓ Eco/Adventure Tourism



Catbalogan City Blue Economy Project

Mitigation and Adaptation



Mitigation

- ✓ Establishing an Aquaculture Research Area and Park – for applying integrated Multi-trophic Aquaculture (MTA) technology and enabling marginalized fisherfolks to go into aquaculture
 - Fish production has minimal carbon footprint unlike livestock production with its high levels of methane emissions. (Methane has 23 times (2300%) global warming potency than CO₂.)
- ✓ Restoration of mangrove forests, seagrass beds for carbon sequestration, among others
- ✓ Re-opening a causeway thru which the tidal currents will pass, thereby driving the turbines that will generate power
 - This also joins two bodies of water and improves the oxygenation of more or less 600 hectares of sea surface that consequently becomes highly suited for larger scale aquaculture

Adaptation

- ✓ Enhanced fish production and promoting fish as "green protein", as fish is produced without using fresh water & land, with both increasingly becoming scarce with global warming
- ✓ Expansion and improvement of its water system
 - Two of its three sources dried up during the last el nino phenomenon.
- ✓ Installation of breakwaters for coastal communities
- ✓ Development of an Eco-tourism hub



Cebu City Blue Economy Project

Support Needed



To achieve our commitments, we need

- Financial assistance to augment our limited funds;
- Technical assistance to avail of more recent technological advances to improve our design and operations
- Avenues for exposure of our offerings and other opportunities for private-public partnerships; and
- Specifically regarding our water system, an endorsement and/or lobby work when we apply for an ODA loan from South Korea's Economic Development Co-operation Fund (EDCF)

MEMO



Local climate actions - discussion with mayors | 도시 발표

Jong-Geel Je

Mayor, Ansan City, Republic of Korea

제종길

안산시장

사람 그 이상을 꿈꾸는 도시,
사랑 중심 안산특별시



Combating Climate Change in Ansan City



Contents

- 1 Greenhouse gas emission status of Ansan »
- 2 Main climate change response policy »
- 3 Examples of Climate Change Responses »
- 4 Future policy direction »

1. Greenhouse gas emission status of Ansan

Greenhouse gas emission status

<Unit: 1,000t CO₂>

	Country	Gyeonggi-do	Ansan-city
Greenhouse Gas Emission	709,100	109,939	11,151
Greenhouse Gas Emission Ranking	7th in the world	1st in Korea	1st in Gyeonggido

- Largest greenhouse gas emission in Gyeonggi-do as industrial complex has well-developed in Ansan city
- 83% of the total companies are with below 20 employees - Small & medium-sized enterprises in the industrial complex are the most vulnerable to greenhouse gas emission reduction

Greenhouse Gas Reduction Target

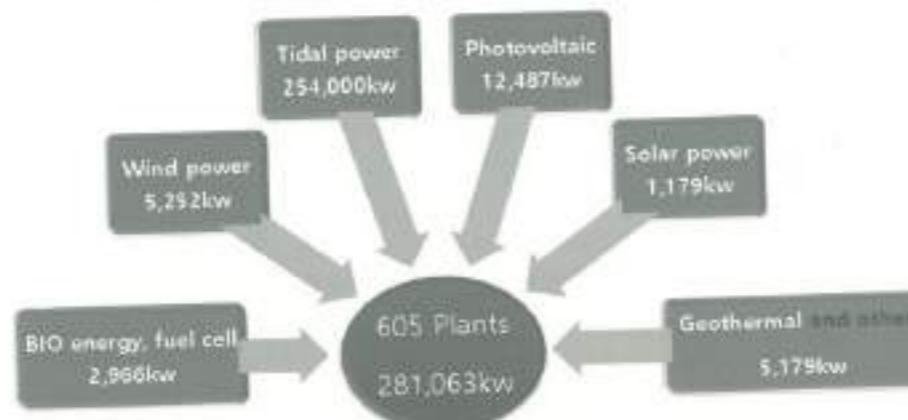
- Reduction in the expected energy consumption by 20 % in 2030
- Increase the ratio of new and renewable energy up to 30% by 2030

2. Main policy responses to climate change

- Jun. 2008 : Mutually declared to create a city for climate protection
- Jul. 2008 : Established the first foundation 'Ansan Green Foundation' in Korea to combat climate change
- Aug. 2009 : Enacted an ordinance on low carbon green growth
- Dec. 2009 : Set the comprehensive climate change response plan
- Jan. 2013 : Enacted an ordinance on sustainable energy city
- Dec. 2013 : Set the detailed implementation plan of climate change adaptation
- Dec. 2015 : Set the local energy production plan
- Jan. 2016 : Mutually declared Energy Vision 2030 Joint Action

3. Examples of Climate Change Responses

New and renewable energy forerunner city - Ansan City



Clean energy generation: 605 million kWh

3. Examples of Climate Change Responses

Clean Energy Independence City – Ansan City

- Improve electricity power independence up to 200% in 2030
- One power plant for one household
- Making Daebudo island a zero carbon area
- Increase the ratio of new and renewable energy to 30% by 2030
- Expand citizen-owned solar energy power plants
- Increase fuel cell power plants
- Equivalent to replacement of one old nuclear plant



3. Examples of Climate Change Responses

Create Urban Forest

- Increase green spaces and provision of fresh rest places
- Reduce greenhouse gas emission by developing carbon forestry
- Mitigate urban heat island and decrease urban noise
- Improve the quality of life for citizen
- Provide various ecosystem services
- Decrease greenhouse gas emission to 1,976 t CO₂-eq by 2015 through creation of urban forest



4. Future policy direction

- Independent city with clean energy
 - Increase the ratio of new and renewable energy
- Promote actively to find ways to combat climate change and to develop adaptation projects
- Carbon offsetting by creating urban forest
- Make Daebudo island a zero carbon area
- Create smart industrial complex with low carbon and high efficiency



MEMO



Local climate actions - discussion with mayors | 도시 발표

Abby Binay

Mayor, City of Makati, Philippines

애비 비나이

마카티(필리핀) 시장

***"Makati City, a safe, secure,
and livable environment...a
model for climate and disaster
resiliency"***

Atty. Mar-Len Abigail S. Binay

City Mayor

City Government of Makati, Philippines



OVERVIEW OF MAKATI CITY

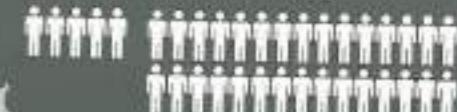
LOCATION:

Makati is located at the center of the National Capital Region (NCR) and is bounded on the:

- North: Pasig River/Mandaluyong City
- East: Municipality of Pateros
- South East: City of Taguig
- South & Southwest: the City of Pasay
- Northwest: City of Manila

Population (2010 Census)

*NIGHT TIME DAY TIME
529,039 3.2 M to 4.2 M



Male: 46.8%

Female: 53.2%

Sex Ratio: 8:10

Dominated by Young Population aged 20-29



Land Area

27.36 square kilometers (4.3 %) of the total NCR's land area of 638.55 square kilometers



Population Density 19,336 person/sq. km.
Number of Households 126,457
Average Household Size 4.2
Population Growth Rate 1.16
(2000-2010)

CLIMATE COMMITMENTS AND TARGETS

1. Reduction in Green House Gas (GHG) emission by at least seven percent (7%) of its base year emission by the year 2024
2. Upgrade of waterways classification to Class C
3. Increasing space for greening to reduce the amount of CO₂
4. Improved ambient air quality over time
5. Increasing Solid Waste Diversion Rate to reduce the percentage of waste collection and disposal.
6. Increasing Compliance to National and International Policies and Standards – Number of Relevant Provisions of National and International Agreements and Standards complied increasing over time



MAKATI CITY CURRENT PLANS FOR CCA

Mitigation

1. Pedestrianization (48,000 CO₂ emission)



2. Urban Greening (7,000 reduction on CO₂ emission)



3. GHG Biggest Loser (60,000 reduction on CO₂ emission)



Adaptation

1. Increasing building height limits for areas prone to flooding (open ground floor)



2. Recovery of waterway easements



3. Green Infrastructure and Technology



End of Presentation...

Thank You!!!



MAKATI

SUPPORT NEEDED

- Increasing technical competence
- Use of smart technologies
- Benchmarking with similarly situated LGUs
- Accessing and Mobilizing Funds for Climate and Disaster Resiliency



MAKATI



Local climate actions - discussion with mayors | 도시 발표

Yi-Ying Lin

Deputy Mayor, Taichung City Government, Chinese Taipei

이-잉 린

타이중(대만) 부시장

Seoul Mayors Forum

Local Climate Action
Yi-Ying Lin, Deputy Mayor
Taichung City, Chinese Taipei

September 1, 2016

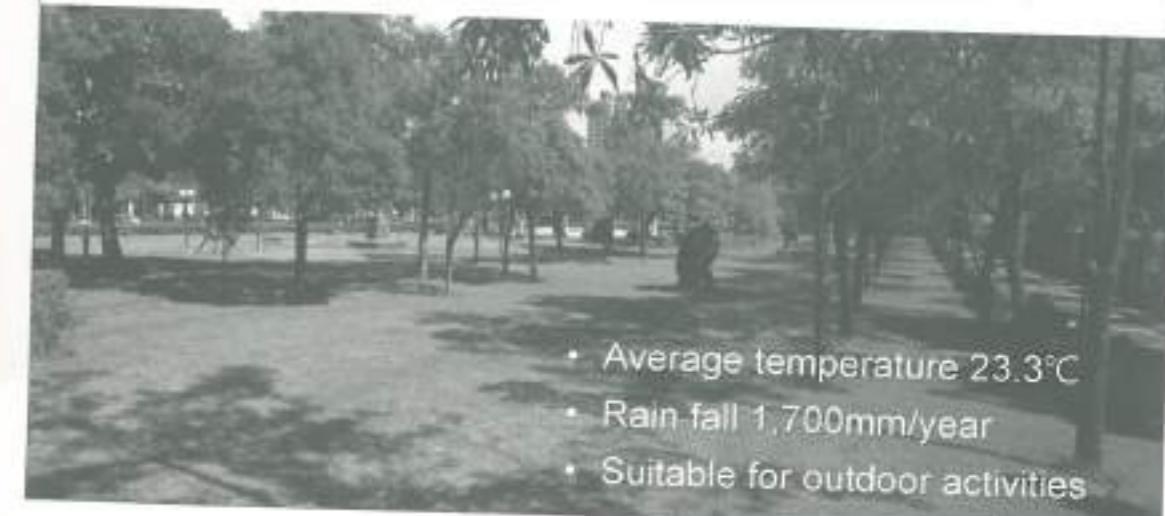


GLOBAL COVENANT
of MAYORS for
CLIMATE & ENERGY



GLOBAL COVENANT
of MAYORS for
CLIMATE & ENERGY

Our Vision is to build
a Low Carbon, Intelligent, Innovation City



- Average temperature 23.3°C
- Rain fall 1,700mm/year
- Suitable for outdoor activities



Brief Introduction of Taichung City



■ Taichung City

- Average temperature 23.3°C
- Taichung City and Taichung County merged in 2011
- Total area 2,215 square kilometer
- Total population 2.75million (end of April 2016)

■ Urban plan area

- Urban plan area 534.84 square kilometer (24% of total area)
- 2.37 million people live in urban area (end of April 2016)

• Urbanization **86%**



Climate Commitments and Targets

 GLOBAL COVENANT OF MAYORS FOR CLIMATE & ENERGY

■ Carbon Reduction Target

- Taichung City has set the goal to reduce 20% GHG emissions from BAU growth in 2018, and 30% from BAU growth in 2022.

■ Compact of Mayors

- Joined Compact of Mayors in 2015
- Registered climate actions and GHG data at cCR
- Full-compliant City



4

Mitigation Activities



- Passed the autonomous regulations to prohibit the burning of heavily polluting bituminous coal and to set the target to reduce 40% use of bituminous coal in 4 years. The regulation can help to reduce about 200,000 tons carbon emission per year and push industry to further develop green energy.
- Installation of solar energy systems on all public roofs has reached the installation capacity of 20 MW in the first year and will continue to grow every year.
- City bus provides 10 km free bus rides with electronic bus cards that increased public transportation to over 400,000 people per day.
- All 307 public schools participate in the Vegetarian Monday action.



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Adaptation Activities



- Re-evaluated climate change risk assessment and vulnerability study in 2015 to establish the adaptation plan for the city.
- Developed flood monitoring and warning system with easy to use APP for people to protect their life and property.
- Plantation of 1 million trees in 8 years for ecological preservation as well as carbon fixation.





APP for Flood Warning, Disaster Prevention and Rescue Information.



6

Shuinan Low-Carbon Intelligent & Innovation Model District



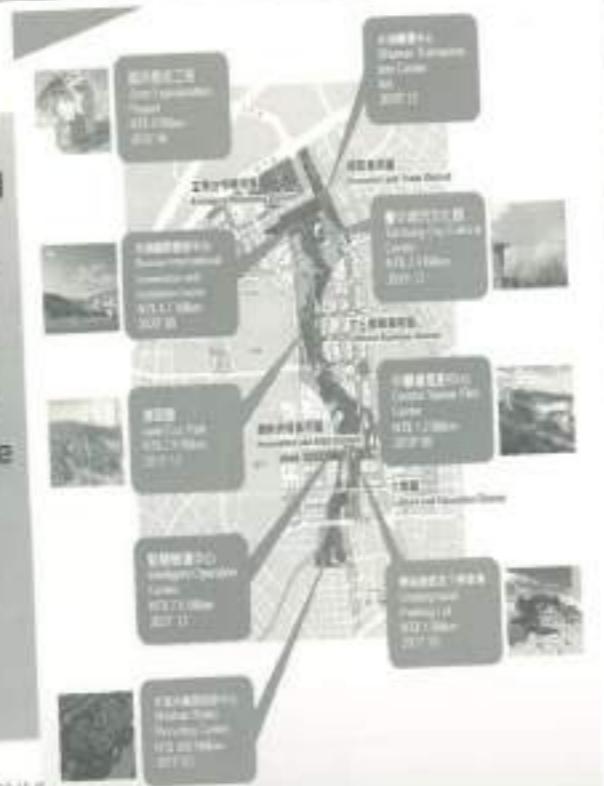
- The former Shuinan Airport has been transformed into the landmark Shuinan Low-Carbon Intelligent & Innovation Model District, which covers 254 hectares.
- An IOC will be built for the operation of the whole district.



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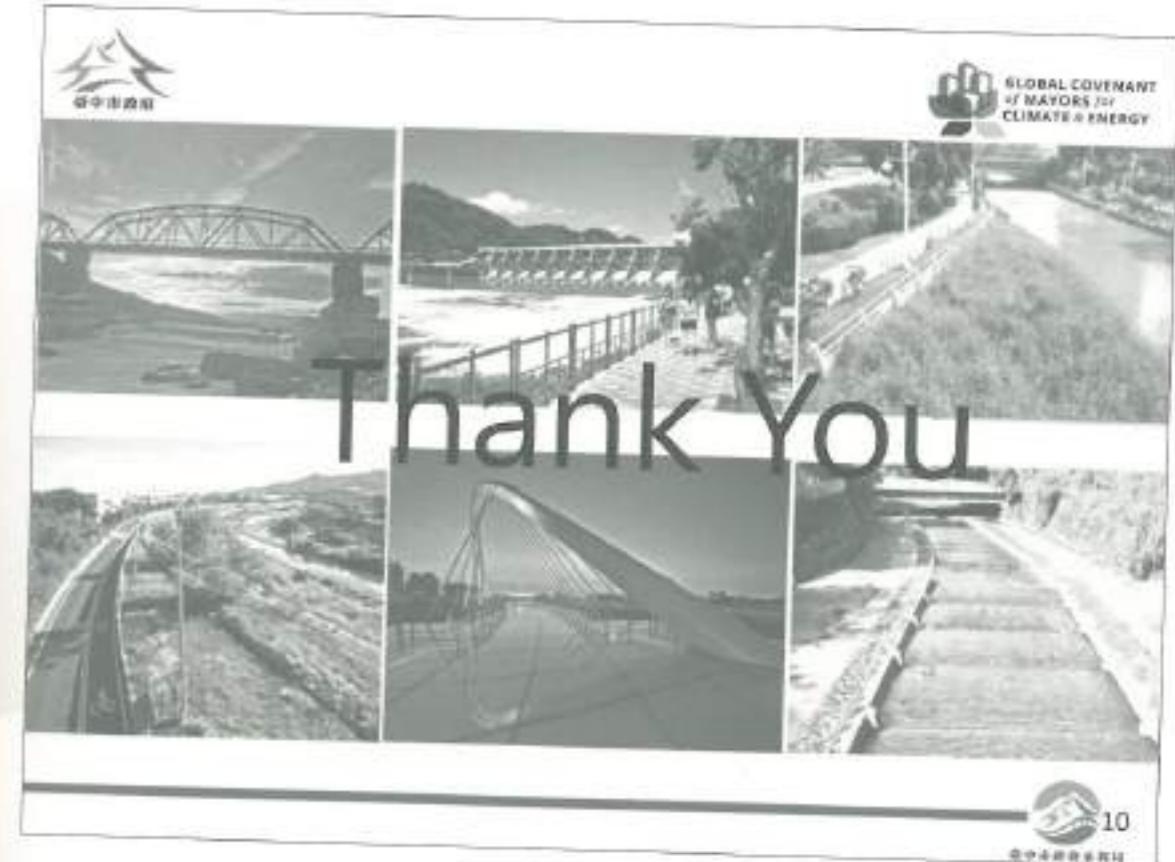

Shuinan Low-Carbon Intelligent & Innovation Model District

- Located in the urban area of Taichung City.
- 8 major public buildings
- Carbon Neutral Central Park
- Carbon Neutral Infrastructure
- Based on the concepts of
 - Low-carbon
 - Intelligent
 - Innovation




• Brief Summary

- Taichung City is dedicated to climate change mitigation and adaptation.
- We are active in joining international initiatives to support global actions.
- The 2018 International Floral Exposition will be held in Taichung City. We welcome you to visit Taichung in the near future.





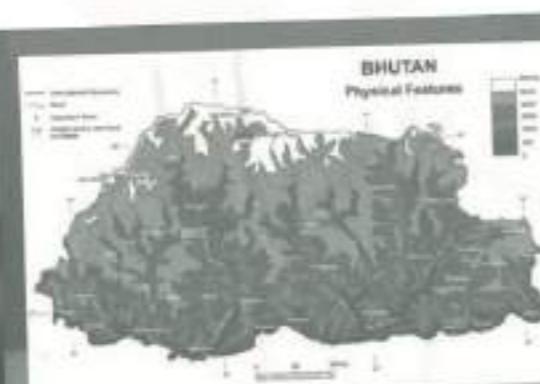
Local climate actions - discussion with mayors | 도시 발표

Namgay Tshering

Deputy Mayor, City of Thimphu, Bhutan

남가이 쳐링

팀푸(부탄) 부시장



"We commit ourselves to keep absorbing more carbon than we emit – and to maintain our country's status as a net sink for GHG."

JIGME KHESAR NAMGYAL WANGCHUCK
5th KING OF BHUTAN.



Implementation of global agreements - what can cities and local governments do?



THIMPHU – THE CAPITAL CITY OF BHUTAN

A GREEN AND SMART CITY



Implementation of global agreements - what can cities and local governments do?



Fastest growing city

- Area : 26 Sq.Km
- Population: 120,000



- Rural-Urban migration rate - 7% annually
- Pressure on infrastructure
- Pressure on Environment
- Encroachment on agriculture land



Implementation of global agreements - what can cities and local governments do?



Climate commitments and targets.

Initiatives

- Plantation of trees around the city
- Low Emission Development Strategy
- Waste Management
- City Greening policy



Implementation of global agreements - what can cities and local governments do?



Current Mitigations and Adaptation

Mitigations:

- Policy based seismology and wind resistant structures
- Channelization of proper drainage system
- Identifying of space of emergency evacuation



Adaptation:

- Educating, awareness and training on preparation incase of disaster
- Installation of fire hydrant in few places
- Installation of flood warning system at different points on the outskirt of city.



Implementation of global agreements - what can cities and local governments do?



What supports does the city need?

-Technical support

- Lack of technology
- Lack of qualified human resources

-Financial support

- Lack of finance for procurement
- Lack of finance for human resource development

Gomapseumnida and Tashi Delek
(Thank You)



Implementation of global agreements - what can cities and local governments do?



MEMO

Seoul Mayors Forum
on Climate Change 2016

Mayoral Session 3

Towards Low Emission
and Resilient Development

시장세션 III

저탄소 회복력 있는 발전 추진



Keynote Presentation | 기조발표

Approaches and Partnership for Low Carbon Emissions
저탄소 배출을 위한 접근 및 파트너십도시의제 파악하기

Kilaparti Ramakrishna

Head/ Director of UN ESCAP East and North East Asia Office

킬라파르티 라마크리쉬나

UNESCAP 동북아사무소 대표



Approaches and Partnership for Low Carbon Emissions

Kilaparti Ramakrishna
Director
ESCAP East and North-East Asia Office

Carbon dioxide in the atmosphere for 650,000 years



Paris Agreement (In blue)

Limiting temperate increase well below 2°C above pre-industrial levels

Stabilizing GHG at the level of 350 or 450 ppm CO₂ eq.

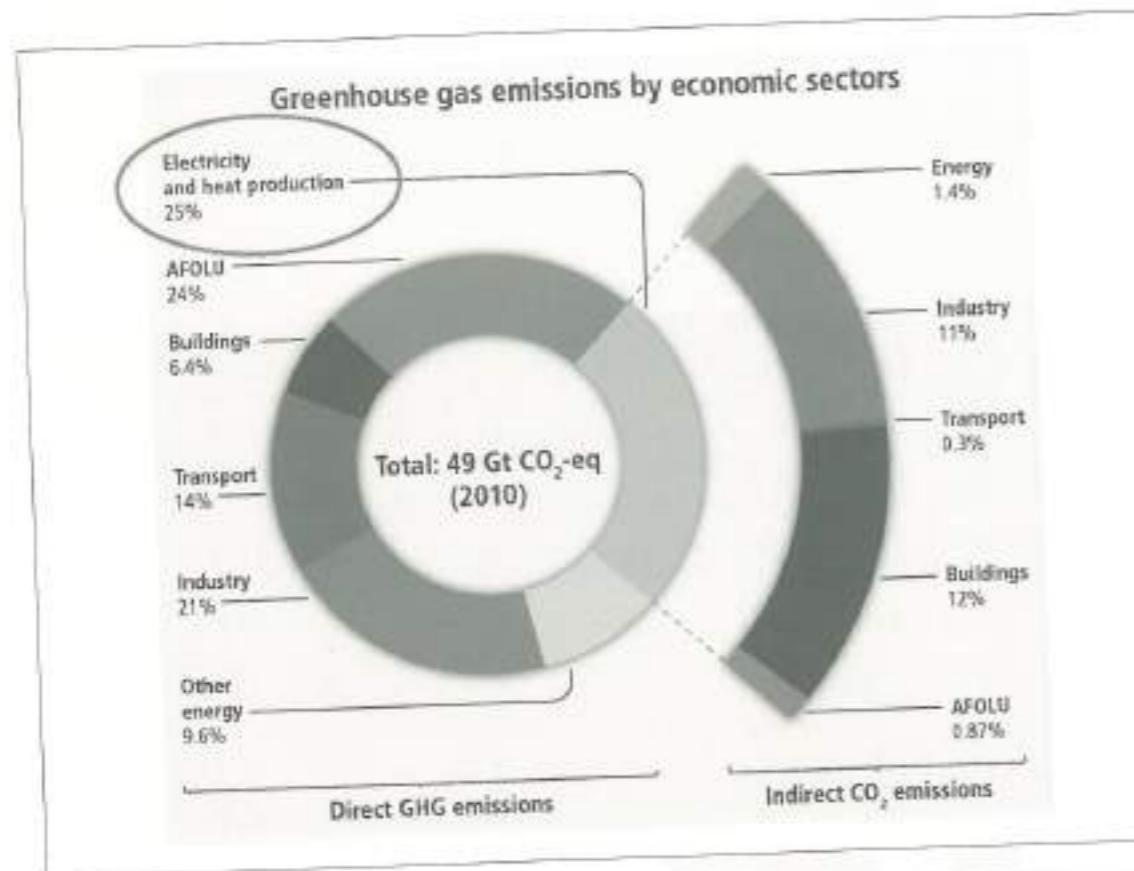
Cutting emissions at least 50% of 1990 level by 2050

Nationally Determined Contribution (NDC) by 2030
(update every 5 years, Transparency Framework, Compliance Mechanism)

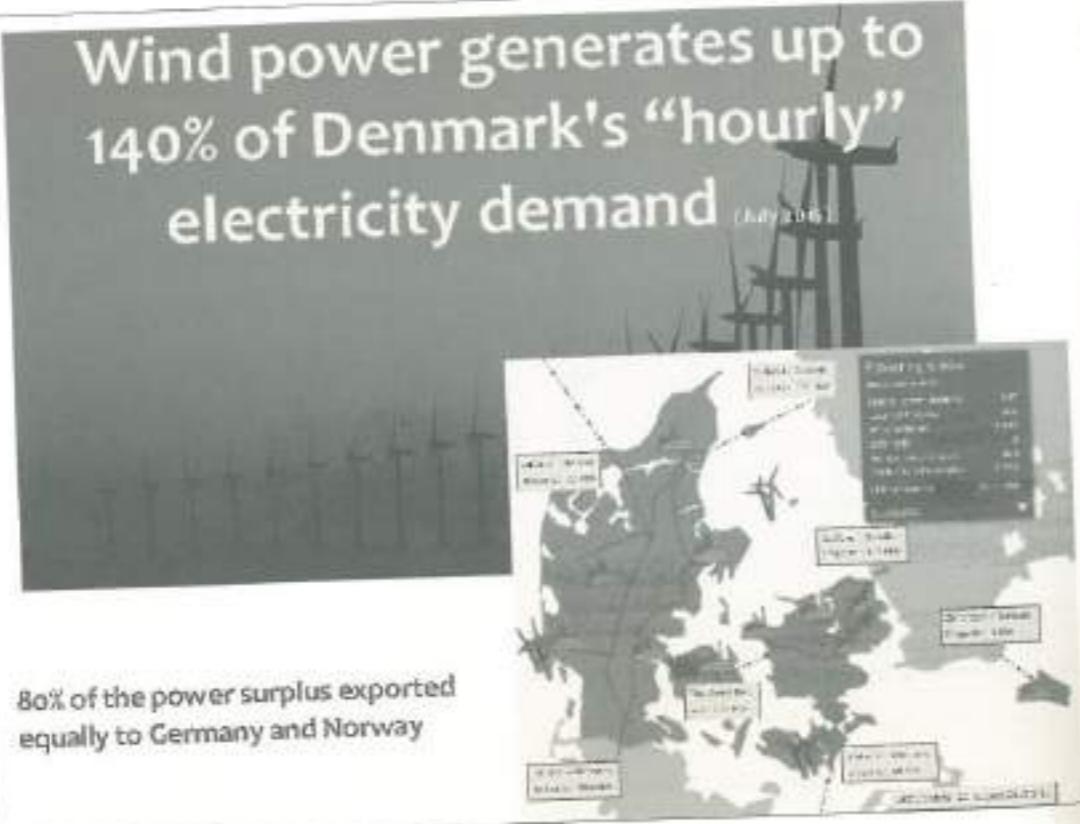
Developed Countries:
quantified economy-wide
emission absolute reduction target

Developing Countries: diversified/
enhanced mitigation actions (BAU,
Intensity targets, etc.)

USD 100 billion + (per year), Technology Framework, Paris Committee on Capacity-building



Wind power generates up to 140% of Denmark's "hourly" electricity demand



The World's First Solar-Powered Airport

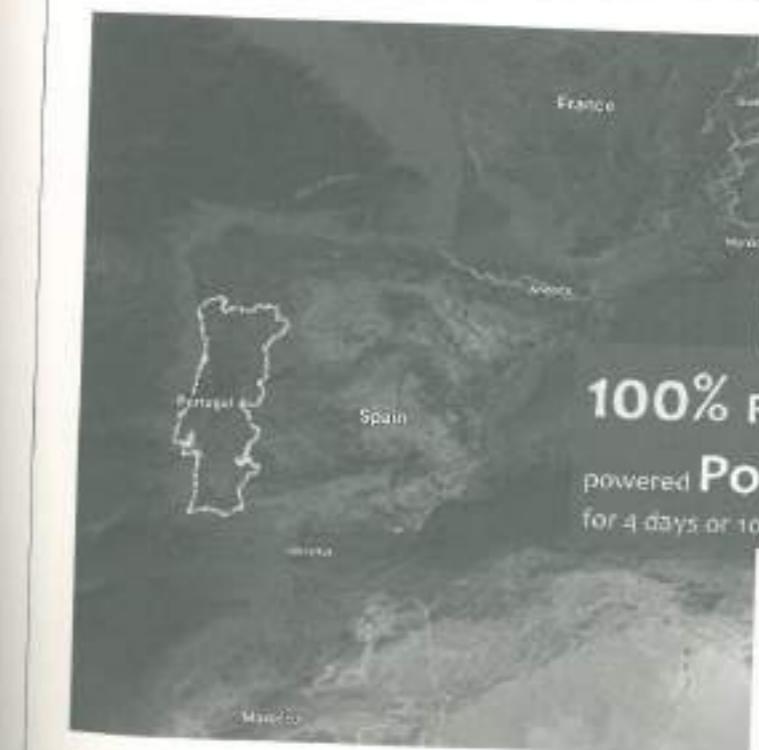


Cochin International Airport – India's fourth largest international airport and "absolutely power neutral" with a 12 MW solar PV plant (46,000 solar panels)

100% Renewable Electricity
Portugal

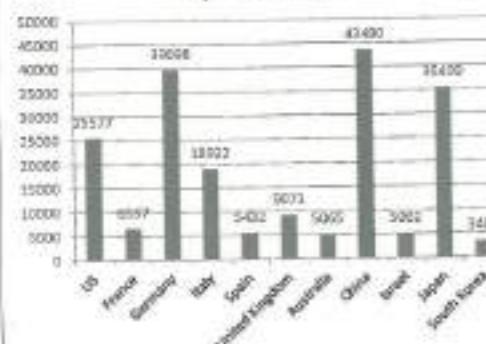
for 4 days or 107 hours, 7–11 May 2016

100% RE becomes a reality

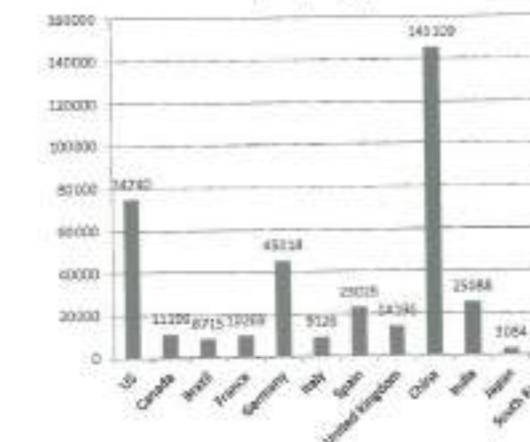


Renewable Energy Development

Installed Solar Capacity
(MW, 2015)

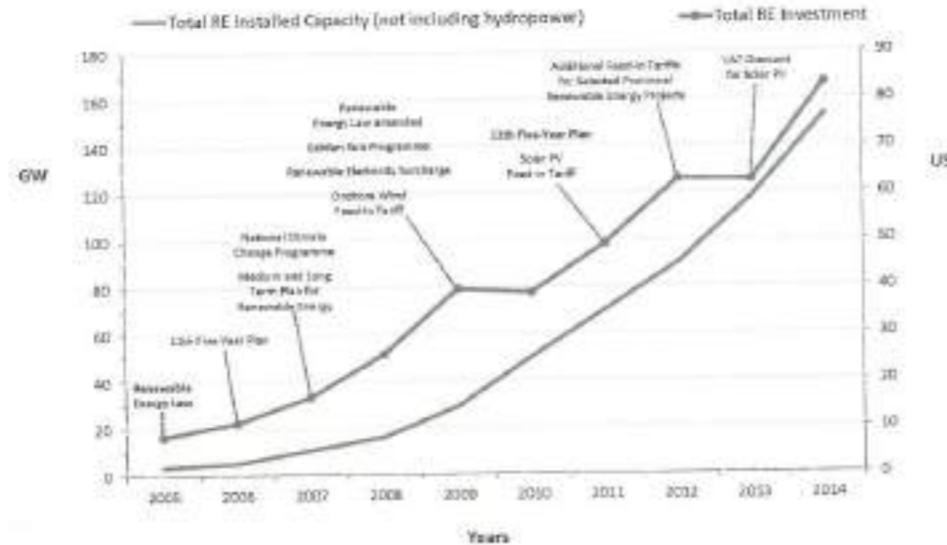


Installed Wind Power Capacity
(MW, 2015)



Source: BP, Statistical Review of World Energy 2016

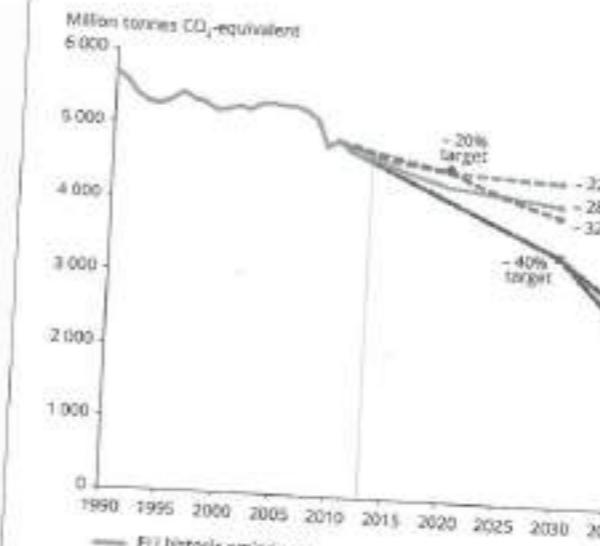
China's renewable energy development:
combination of regulatory policies, economic
incentives, technological innovation, etc.



EU, making a low carbon transition

EU-28: 1990-2014

GHG emissions: 24% ↓
Population: 6% ↑
GDP: 47% ↑



Legend:

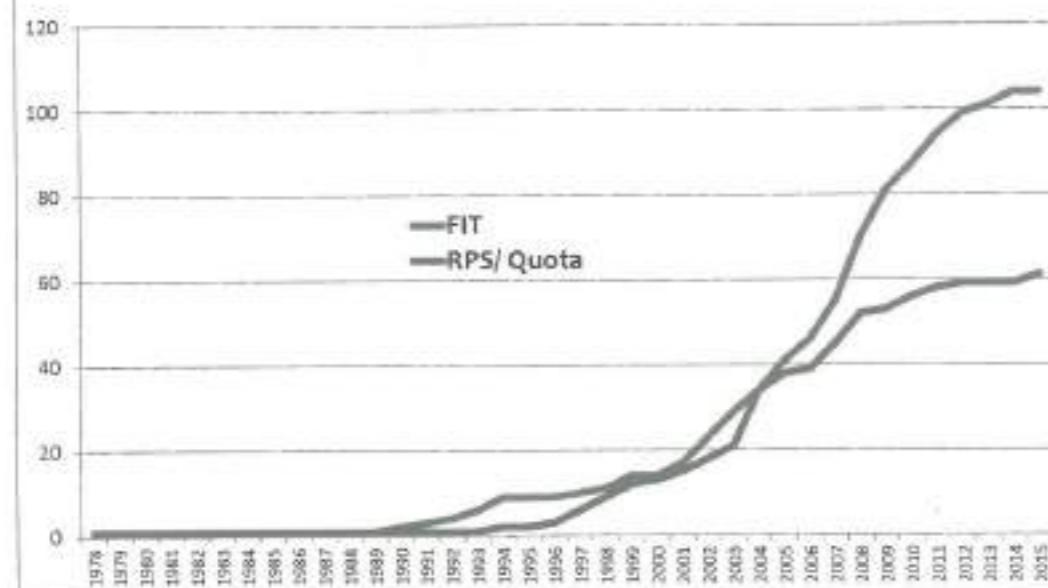
- EU historic emissions
- EU projections with existing measures
- EU projections with additional measures
- Linear path to targets and objectives
- Commission 2013 baseline with adopted measures

Source: The European Environment – state and outlook 2015
Analysis of key trends and drivers in greenhouse
gas emissions in the EU between 1990 and 2014

Policies for promoting renewable energy



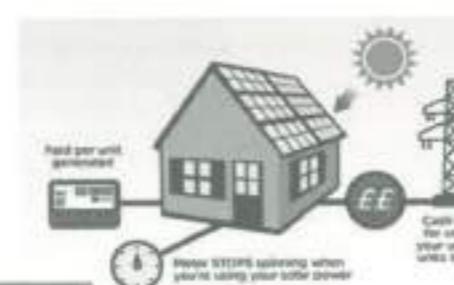
FIT and RPS: Number of Countries/States/Provinces introduced the policies



Providing favorable prices for electricity from RE sources: Feed-in Tariff (FIT)

The most common policy for promoting renewable energy

- Guaranteed grid access
- Long-term contracts for the electricity produced
- Purchase prices based on the cost of generation



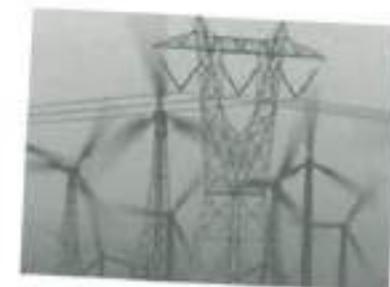
Country	Tariff Values (USD) per kWh
France	0.33 to 0.52/kWh for solar power
Japan	0.13 (biomass) to 0.55 (onshore wind <20kW) - FY2015
China	0.12 - 0.15
Korea	0.059 (non-typical hydro) - 0.252 (fuel cell)

(Source: IEA <http://www.iea.org/policiesandmeasures/renewableenergy/>)

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Making electricity producers responsible for RE: Renewable Portfolio Standard (RPS)

- Also called renewable obligations or quota policies
- Obligation on electricity supply companies to produce a specified fraction of their electricity from renewable energy sources



Country/ Jurisdiction	RPS
Rep. of Korea	10% by 2024
EU	33% of electricity by 2020
Hawaii	30% by 2020, and 100% by 2045

Providing financial incentives for producers: Tax Credits and Subsidies

- Investment tax credits: e.g. credit of 30% of the cost of development
- Capital subsidies: Common policy for solar PV, in particular, and cover typically for 30–50 percent of installed costs
- Renewable energy funds: directly finance investments, provide low-interest loans, or facilitate markets in other ways, for example through research, education, and standards.



China: Renewable Energy Development Special Funds. Reduced VAT for wind power to 8.5% and biogas to 13% (normal VAT is 17%)
Seoul: Subsidies for "micro power plants" (solar PV <1kW: 300,000~725,000 won)
Japan: Subsidy for residential PV systems (2009-2014)

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Setting targets for producers and consumers: Regulatory Policies

- Mandated solar PV for buildings:** Mandates solar PV for certain types of new building
- Green power purchasing:** purchase electricity supplied in whole or in part from renewable energy sources
- Codes and Standards:** setting standards and criteria for utilization of renewable energy (e.g. building code, industrial standards, etc.)

Santa Monica (US): rooftop solar-PV systems on all new construction in the city

China: quota for major cities and all provinces for consumed electricity from Non-hydro renewables: 9% of by 2020.

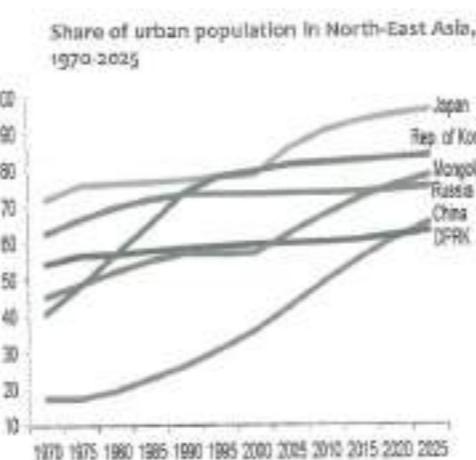


16

Cooperation for Low Carbon City in North-East Asia

North-East Asia and its cities

- Sharing 1/3 of global GHG emissions
- High & continuing Urbanization: Japan (93% in 2014) ROK (82%), Russia (74%), China (50%)
- Cities: the major source of GHG emissions
- Cities: ideal 'policy labs' to experiment new policies and innovative measures



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Cities working on low carbon pathways

CHINA	JAPAN	ROK
LCC programmes and initiatives		
Low Carbon Pilot Cities and Provinces (2010, 2011)	Eco-model City Programme (2008)	Climate-model City and Eco-rich City (2007)
Pilot Low Carbon Transportation System (2011)	Future City Initiative (2010)	Urban Planning Guidelines for Low-carbon Green Growth (2009)
GHG emissions reduction goals of selected cities		
Based on carbon intensity per GDP • Baoding: 35% (2010-2020) • Hangzhou: 50% (2005-2020) • Jilin: 60% (2005-2030) • Shenzhen: 45% (2005-2020) • Guiyang: 45% (2005-2030) • Tianjin: 15.5% (2010-2015)		
Based on absolute reduction target • Tokyo: 25% (2000-2020) • Kyoto: 40% (1990-2030) • Toyama: 30% (2005-2030) • Kitakyushu: 30% (2005-2030) • Yokohama: 30% per capita (2004-2009) • Minamata: 31% (2005-2020)		
Based on absolute reduction target or business as usual (BAU) • Seoul: 25% (2005-2020), Suwon: 20% (2005-2020), Gangneung: 49% (BAU, 2020) • Jeju: 41% (BAU, 2020), Gwangju: 40% (BAU, 2030)		

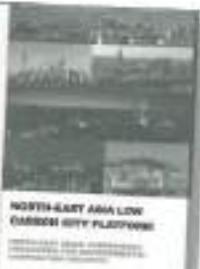
ESCAP – Supporting North-East Asia Low Carbon City Platform (NEA-LCCP)



OBJECTIVES

Numerous global and regional networks in Asia are consisted of mainly municipal governments or academia. In order to add value to the existing networks, launching a platform for organizations working on LCC approaches, policies and programmes will:

- Bring together existing and new information and knowledge on LCC approaches and policies,
- Synergize the works of specialized organizations; and
- Collectively support municipal authorities in moving towards LCC



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THANK YOU

ESCAP ENEA Office
<http://enea.unescap.org>

Facebook:
[/UNESCAP.ENEAP](https://www.facebook.com/UNESCAP.ENEAP)
Twitter:
[@UN_EastAsia](https://twitter.com/UN_EastAsia)



MEMO



Local climate actions - discussion with mayors | 도시발표

Dr. Neni Moerniaeni, Sp.OG

Mayor, Bontang City, Indonesia

네니 모에르니애니

본탕(인도네시아) 시장

 Low Emission & Resilient Development towards *Green City*


dr. Hj. Neni Moerniaeni, Sp.OG
Mayor of Bontang

+6281254087559
numo.bontang@gmail.com

  GLOBAL COVENANT
of MAYORS for
CLIMATE & ENERGY

VISION



BONTANG
2025

Maritime
City



Environmental
oriented



Industrial
cultured

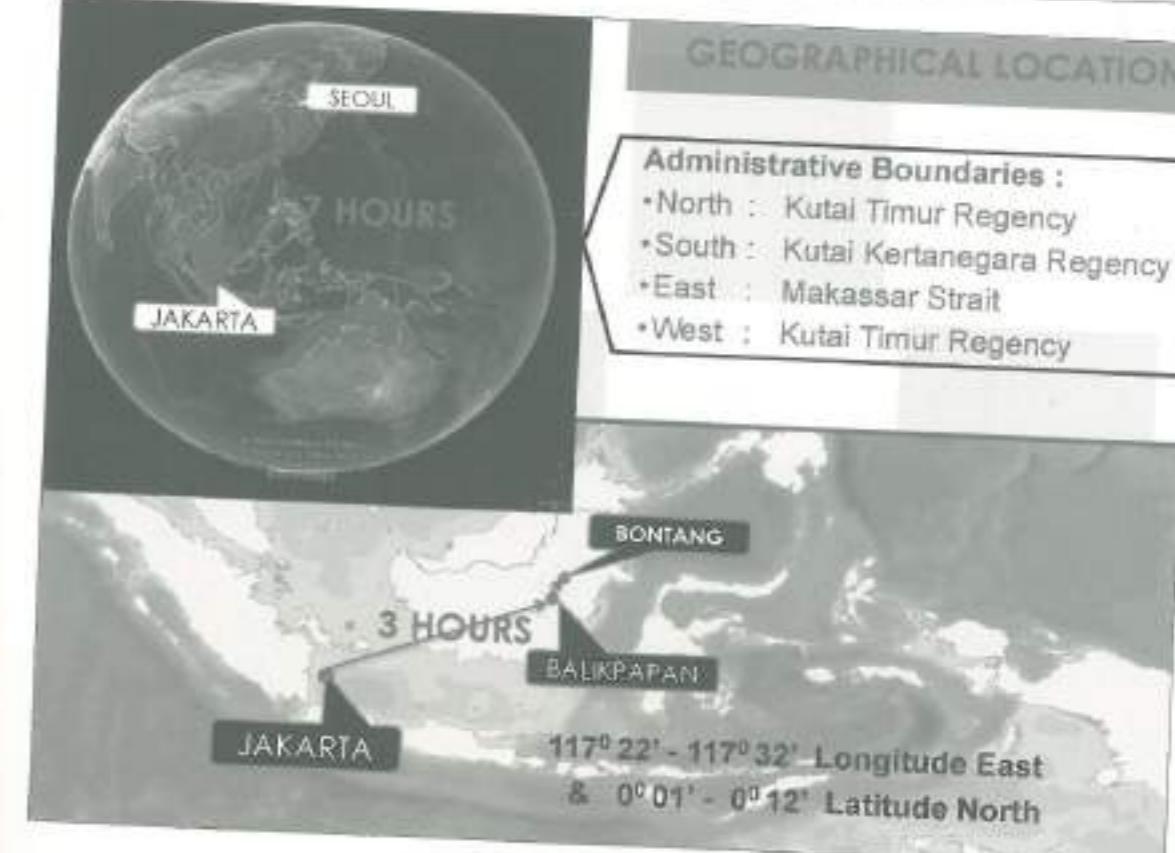


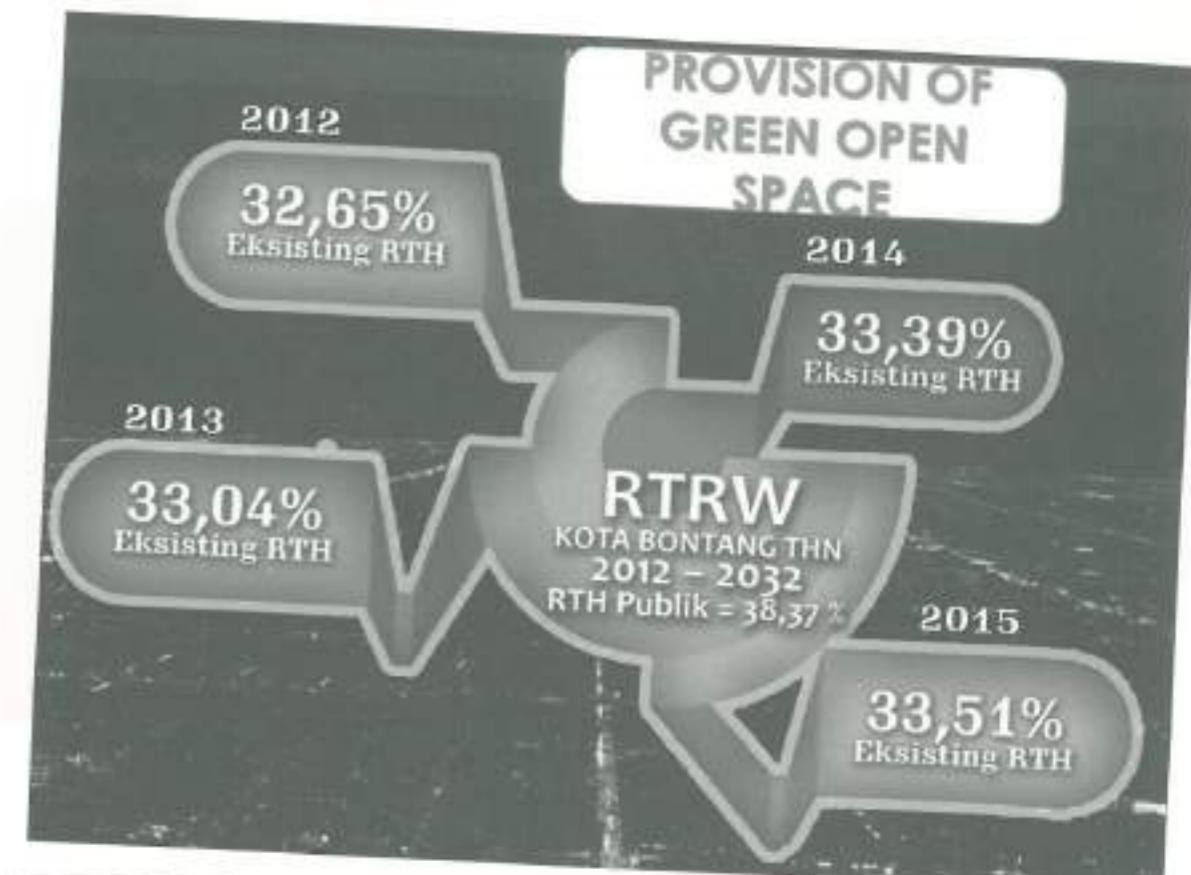
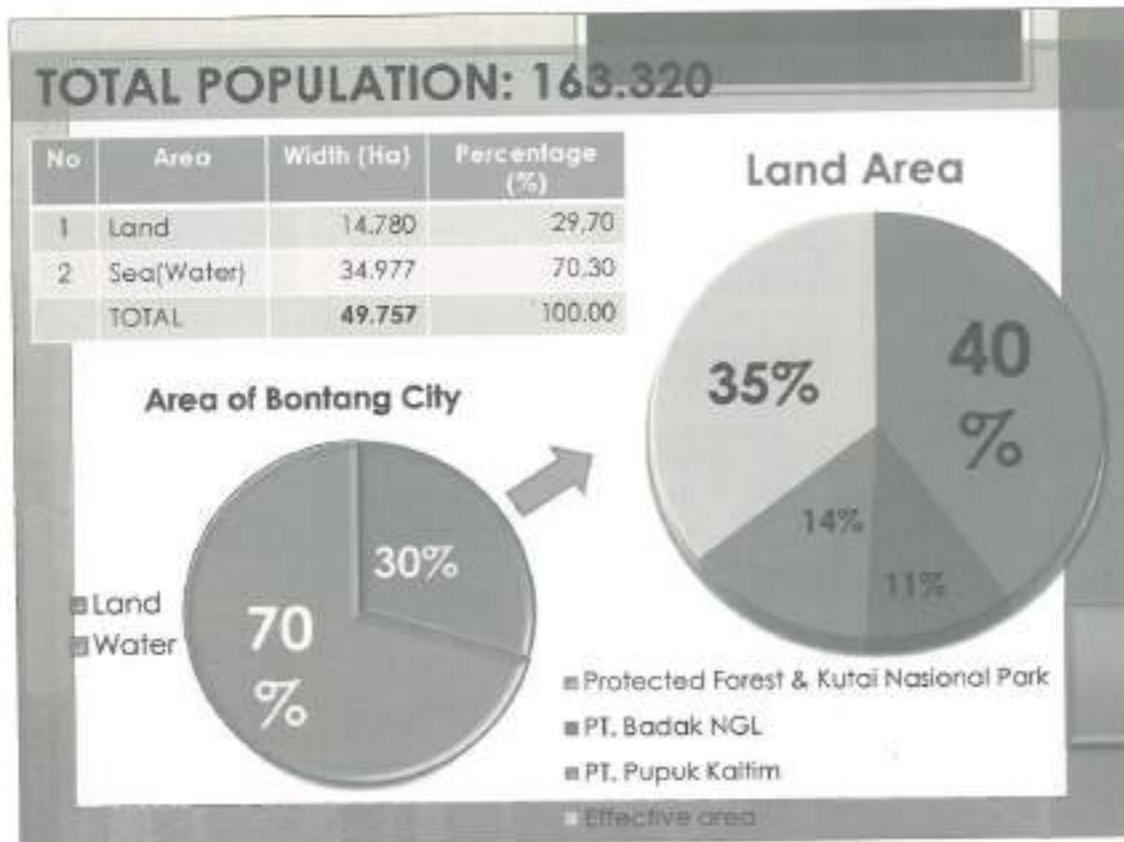
Social
Welfare

GEOGRAPHICAL LOCATION

Administrative Boundaries :

- North : Kutai Timur Regency
- South : Kutai Kartanegara Regency
- East : Makassar Strait
- West : Kutai Timur Regency


SEOUl
7 HOURS
JAKARTA
BONTANG
BALIKPAPAN
3 HOURS
JAKARTA
117° 22' - 117° 32' Longitude East
& 0° 01' - 0° 12' Latitude North



COMMUNITY SERVICE – FRIDAY CLEAN



- Every Friday 6.30 – 8.30 AM
- Clean up the environment in subdistricts / villages



- To boost people's sense belonging to the environment
- LIVABLE CITY

MANGROVE REHABILITATION & UTILIZATION

CORAL REEF REHABILITATION

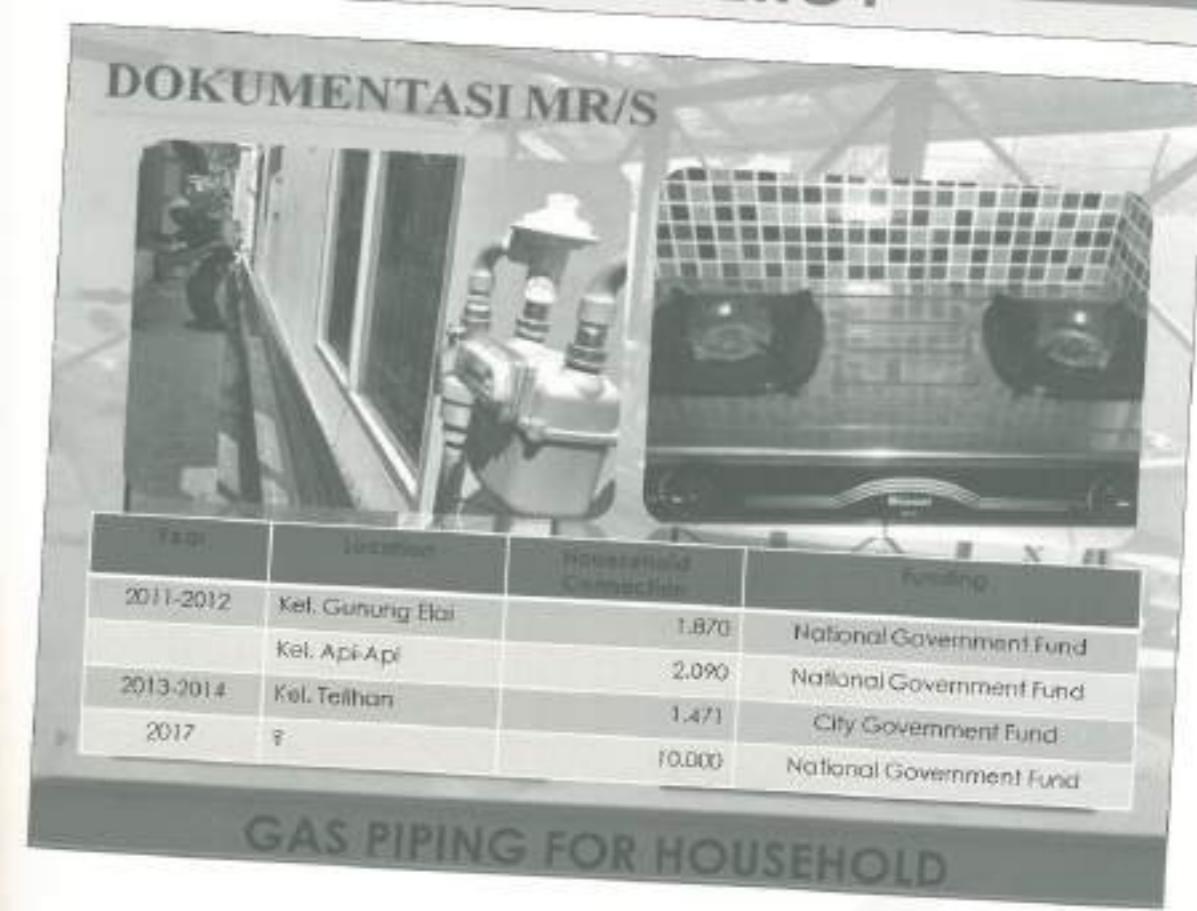
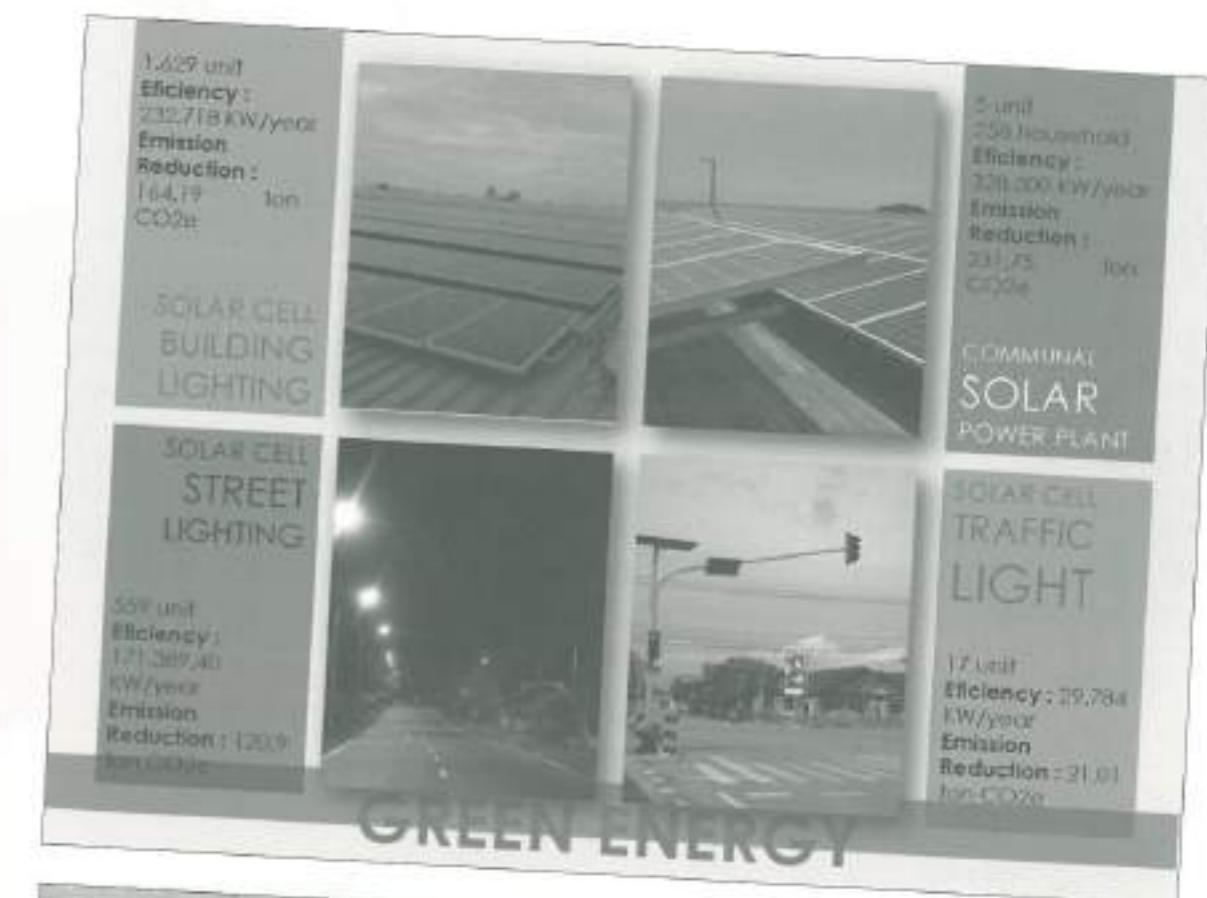
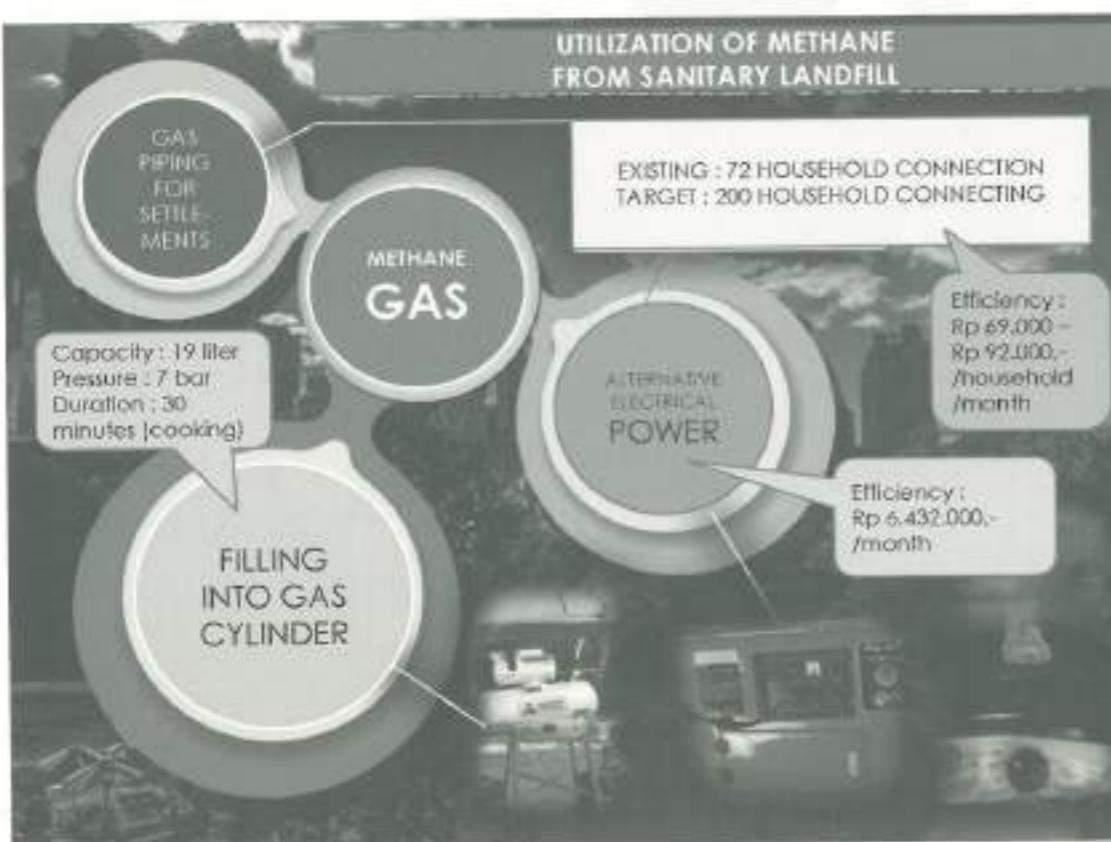
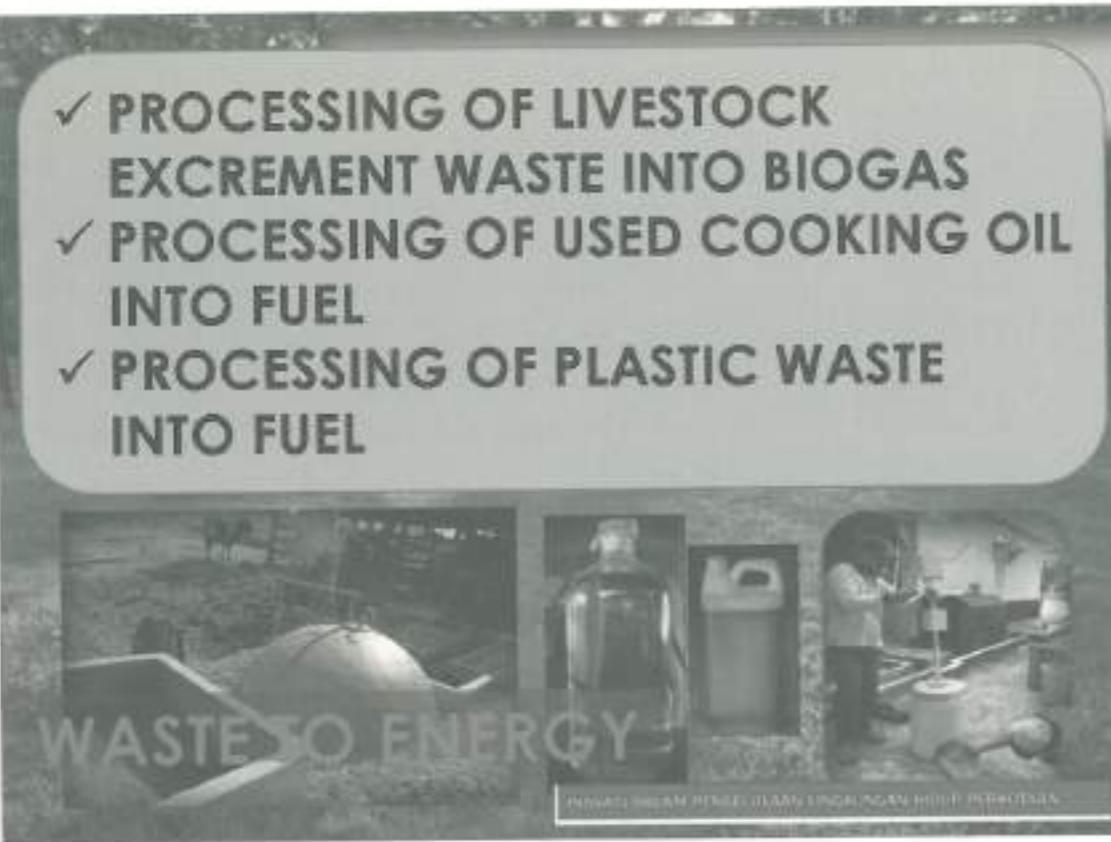
CAFE METHANE
Production : 100 pc/month
Omzet : Rp 2.500.000,-/month

COMPOSTING
Production : 500 kg/month
Omzet : Rp 1.000.000,-/month

PROCESSING OF HANDICRAFTS
Production : 14-15 tons/month
Manpower : 75 persons
(man : 39,62%; woman : 60,38%)
Omzet : Rp 2.000.000,-/month/person

PROCESSING OF PLASTIC GRAINS

WASTE TO RESOURCES



OUR PLANS

Green City

Kota yang terencana dengan baik, berdirikan ramah lingkungan yang secara efektif mampu memanfaatkan sumber daya perkotaan (alamiah dan terbangun) secara seimbang dalam rangka menjamin keberlanjutan kualitas dan daya dukung

BAPPENAS (2015)
Kebijakan Rer. Strategis Pembangunan
Periode Nasional 2015-2045

```
graph TD; GC((green city)) --- GTS((green trans- portation)); GC --- GBS((green building)); GC --- GWS((green waste)); GC --- GCS((green clean space)); GC --- GTR((green tree))
```

DESALINATION

- 31.000 m³/day of water consumption
- 100% clean water from underground water
- clean-water crisis in 2030
- desalination technology is the best option
- technical and financial supports would be needed

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RENEWABLE ENERGY PLANTS

Manufacturing Industry, commercial and residential buildings as the largest source of green house gas emission

Emission from fossil fuel increase up to above 200% in 2020

Waste/garbage, sunlight and ocean/wind/o-dynamic as new and renewable energy sources

Technical and financial supports would be needed

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**"If not us,
who?"**

**If not now,
when?"**

(Hillel the Elder)



MEMO



Local climate actions - discussion with mayors | 도시발표

Steve Skadron

Mayor, City of Aspen, USA

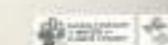
스티브 스캐드론

아스펜(미국) 시장



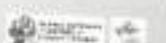
ASPEN, COLORADO

Vision: We will be the local, regional, state and national leader in all aspects of environmental stewardship.



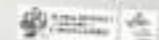
OVERVIEW

Aspen, 7,908' (2410m): The City of Aspen is located high in the Rocky Mountains surrounded by the White River National Forest. Aspen is internationally renowned as a winter and summer resort. The surrounding Elk Mountains are home to four local ski areas. Warm-weather months provide access to an assortment of activities and adventures for the outdoor enthusiast. In addition, Aspen's cultural, intellectual and dining offerings rival those of a big city.



CLIMATE COMMITMENTS

Reducing GHG emissions 30% by 2020 and 80% by 2050. Powering electric utility with 100% renewable sources. Joined the Compact of Mayors, ICLEI, and the Mayors' National Climate Action Agenda. Active in state and federal climate policy; Built largest rural mass transit system in the U.S. to reduce single occupancy vehicle usage; Started first rural bike share program in U.S.; Competing in the Georgetown University Energy Prize to reduce per capita energy consumption.

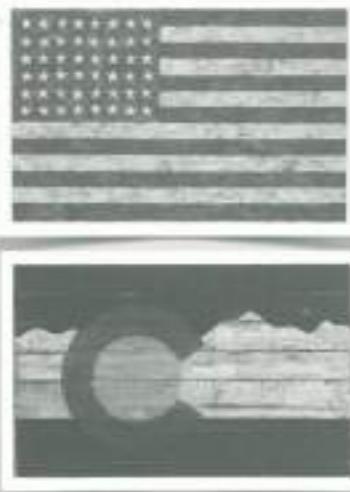




MITIGATION & ADAPTION

Mitigation: Initiated traffic reduction/mobility transformation • Created program (REMP) to mitigate excessive energy use • Writing new codes requiring buildings to benchmark and reduce energy use

Adaptation: Increasing emergency preparedness • focusing on energy and water conservation • exploring micro-hydro and local energy generation.



SUPPORT

We need policy change at the state and national levels, so that our local work can be scaled and replicated, in a meaningful way, in other communities.



MEMO



Local climate actions - discussion with mayors | 도시발표

Soon-sun Lee

Governor, Inje County Government, Republic of Korea

이순선

인제군수

2016 Seoul Mayors Forum on Climate Change

100% Energy Independence by 2045

"Sustainable Energy Safe City – Inje"

Opened along with water, wind,
Sun & people



인제군

1. Objectives

Energy-Safe
LIFE special county,
Inje



Mayor Policy goal Implementation tasks by sector	Liveable Inje Promote New & Renewable energy production	Inspiring Inje Increase energy efficiency	Feasible Inje Cultivate cultural model for energy conservation
<ol style="list-style-type: none"> The whole county plans to build ECO-Inje, photovoltaic power plant, wind power plant complex. Small hydro power plants Energy storage inverse Energy self-reliant village Forest biomass combined heat and power 	<ol style="list-style-type: none"> Strengthening ratio of new & renewable energy ministry-built buildings Expanding energy conservation movement in public sector Designating and operating DMZ peace, Inje education village and renewable energy experience village Establishing cooperation channel between private and public environmental sector for sustainable development 	<ol style="list-style-type: none"> Strengthening ratio of new & renewable energy ministry-built buildings Expanding LED light supply 	<ol style="list-style-type: none"> Promoting resident-driven energy conservation movement Expanding energy conservation movement in public sector Designating and operating DMZ peace, Inje education village and renewable energy experience village Establishing cooperation channel between private and public environmental sector for sustainable development

2. Implementation System

Energy-Safe
LIFE special county,
Inje



Public-Private Cooperation Governance: Established

Local residents & Participating companies

- Participating in establishing energy safe (self-reliant) villages
- Forming a residents' consultative group
- Participating and operating green program or photovoltaic
- Participating in demonstration project of forming an energy reliant village
- Practicing and promoting activities for energy conservation
- Promoting R&D projects among energy businesses
- Buidling a network between local construction companies, etc.

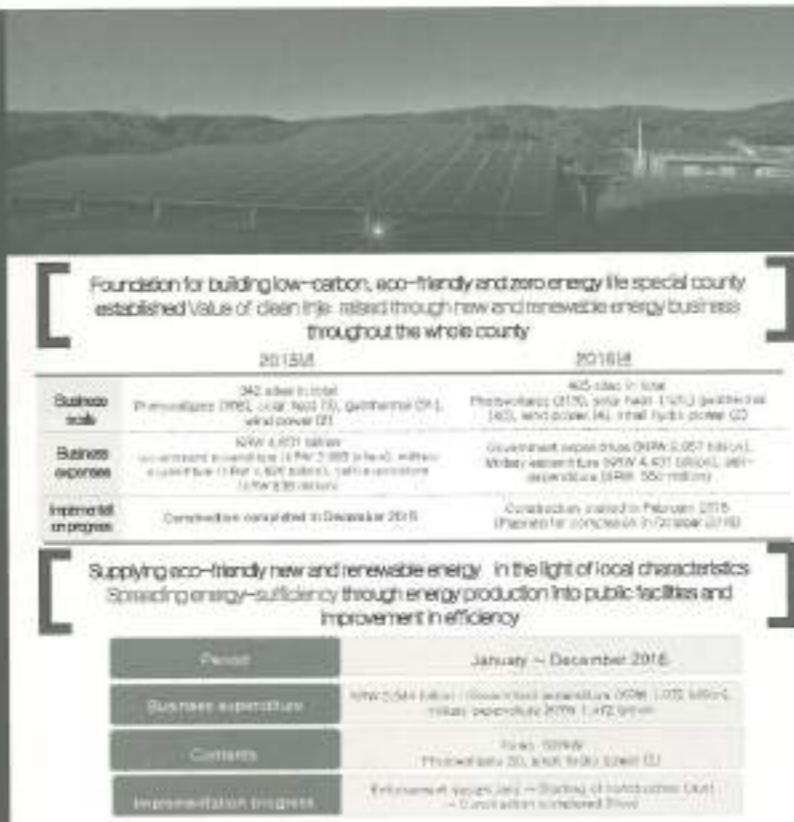
Inje county
& Inje county council

- Establishing energy self-reliant city plan and implementing its practical strategy
- Proposing and running contests in government offices and Gangwon province
- Arranging system including ordinance
- Forming related business promotion committee and providing operation support
- Offering administrative and financial resources for related projects
- Supporting demonstration project implementation
- Practicing related businesses, etc.

3. Implementation performance

New & renewable
energy convergence
support business

New & renewable
energy local support
businesses



3. Implementation performance

New and renewable
energy housing and
building support
business

Operating new & renewable energy commercial facilities directly managed by military



3. Implementation performance

Energy-Safe
LIFE special coun-
try

New and renewable energy development business – using BOT method

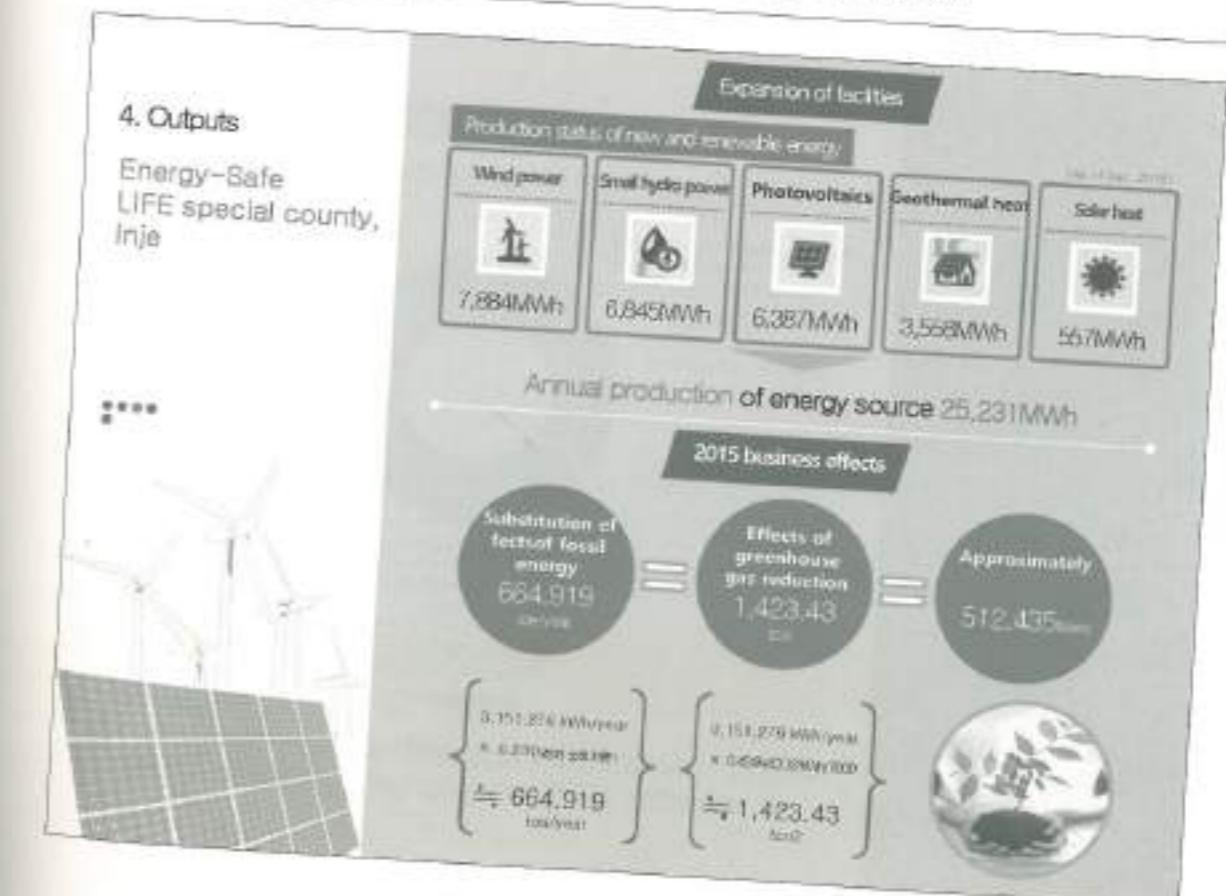
Energy conservation
Training leading
people



Conserving energy of "100,000 TOE"
through the participation of the whole residents including an
energy guardian angel.

4. Output

Energy-Safe
LIFE special count
line



4. Outputs

Energy-Safe LIFE special county, Inje

Usage fee reduced

Payment detail on electricity usage fee for household A within jurisdiction

Period	2015.8	2015.9	2015.10	2015.11	2015.12	2016.1	2016.2	2016.3	2016.4
1	2,100,000	900,000	0	0	10,110,100	9,120	0	0	0
2	2,100,000	900,000	0	0	10,110,100	9,120	0	0	0

More than 90% cost-cutting effect of electricity used in households installed with photovoltaics power

Approximately reduction of an estimated KRW 300 million in electricity usage fee within the jurisdiction 2015

5. Future plans

Energy-Safe LIFE special county, Inje

Sharing Our Future Together

Through local energy conversion business

- Lowering dependence on external energy and converting into safe, renewable energy consumption
- Producing safe and renewable energy in preparation for energy supply crisis
- County residents enjoying energy services share them with disadvantaged groups with limited access to energy as well as with future generation
- Establishing open energy governance in planning and practicing energy policies
- Disclosing energy information and policies and providing education and training opportunities

Realizing a sustainable energy and safe (self-reliant) city, Inje, by achieving '100 % of energy self-reliant ratio in 2045'

MEMO



Local climate actions - discussion with mayors | 도시발표

Chin-de Chen

Deputy Mayor, Kaohsiung City Government, Chinese Taipei

친-더 첸

가오슝(대만) 부시장

Kaohsiung: Toward a Low Emission and Resilient Future



Speaker: Derek Chen, Deputy Mayor
Kaohsiung City Government



Facts of Kaohsiung

Taiwan

- Area: 36,193 km²
- Population: 23.3 million
- GDP/Capital: USD 21,059



Kaohsiung City

- Area: 2,946 km²
- Population: 2.7 million
- 2nd largest city in Taiwan
- Largest port in Taiwan
- 2nd largest airport in Taiwan
- Top 12 largest port around the world

■

Climate Action Plans- Mitigation



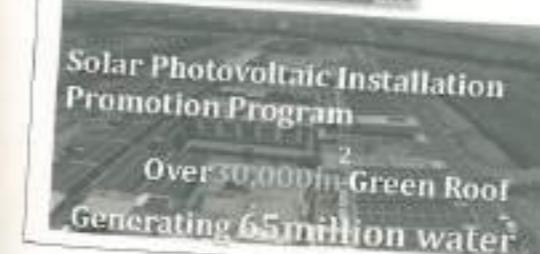
Cycling Path

- 8 types of cycling path are constructed.
- Extend to 1000kms in 4 years.
- First public bike rental system- "City Bike"
- 160 stations, each bike is used for 3.88 times on average; 5.53 times during holidays



Circular Light Rail Transit

- Total 22.1 km, 36 stops
- First century-free LRT system in Asia
- 2018 starts operating for the public
- Major construction in Asia New Bay Area



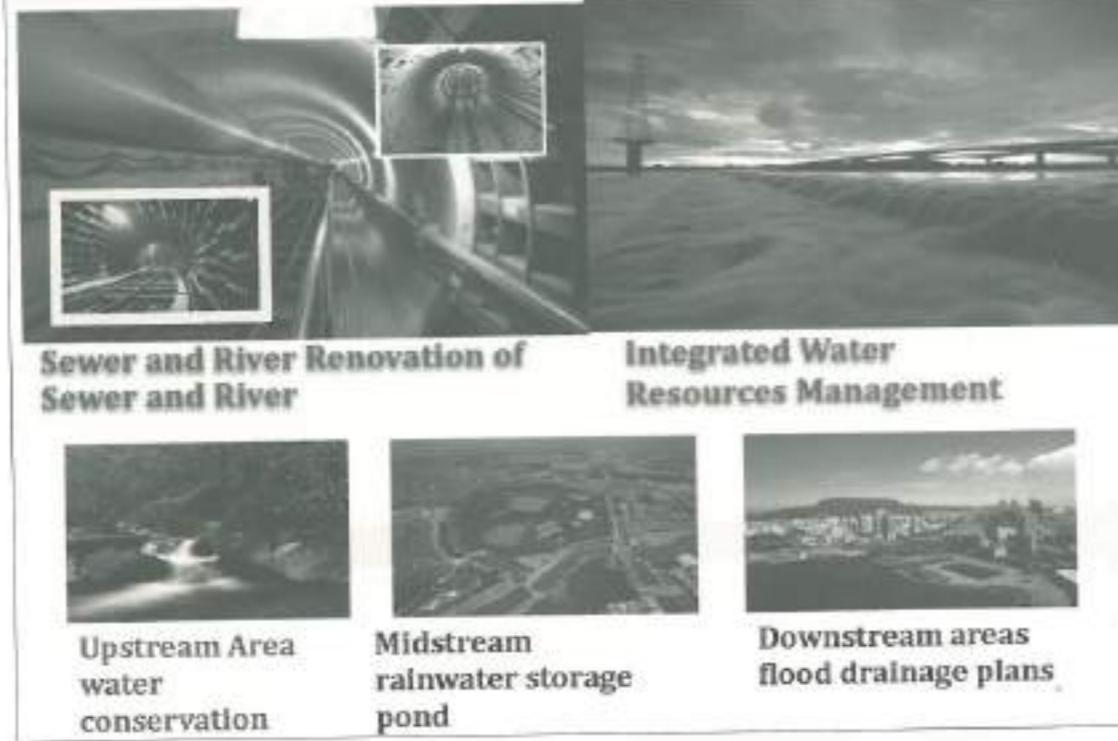
Solar Photovoltaic Installation
Promotion Program

Over 30,000² Green Roof
Generating 6.5 million water



20% CO₂ Emission
reduced by 2020
50% CO₂ Emission
reduced by 2050

Climate Action Plans- Adaptation



Sewer and River Renovation of
Sewer and River

Integrated Water
Resources Management

Upstream Area
water
conservation

Midstream
rainwater storage
pond

Downstream areas
flood drainage plans

Elements of 2017 EcoMobility Festival

- One community
- One month
- Low-carbon vehicles

EcoMobility
demo site

Local and
Cultural
Activities

- Local activities
- Community rehabilitation
- Commercial development

- Sharing Vehicle
- Public transportation
- Bicycle
- Tricycle
- Other eco vehicles

Exhibitions
of Eco
Vehicles

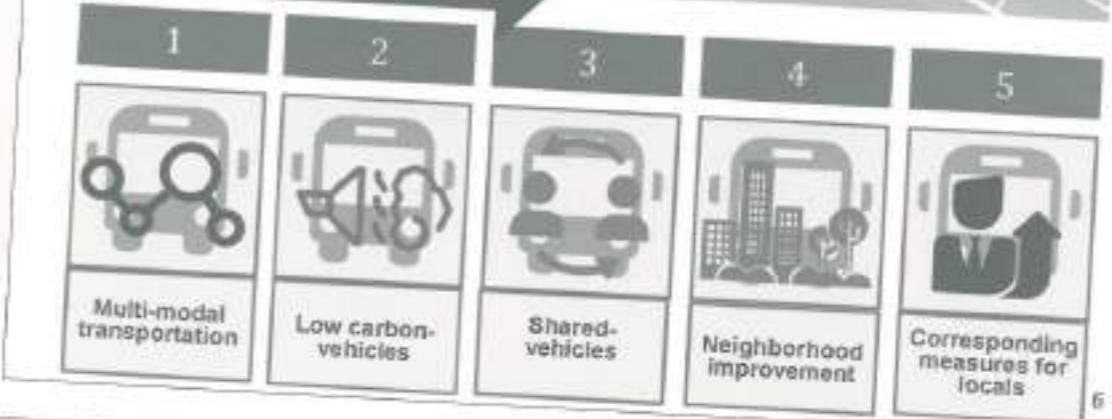
International
Conferences

- Seminars
- City communication
- Workshops

EcoMobility Strategy in Hamasen

Hamasen
EcoMobility
Demo Site
Areas of Festival
Activities
(incl. exhibition
and local activities)

October 1-31, 2017



Welcome to Kaohsiung !!

Save your days.

1-31 October, 2017



* Kaohsiung is also the Chair of
ICLEI EcoMobility Alliance 2016-17

MEMO

Seoul Mayors Forum
on Climate Change 2016

Mayoral Second Annual Summit: **GLCN**

Global Lead City Network
on Sustainable Procurement(GLCN)

GLCN 2차 총회

지속가능 공공구매를 위한
글로벌 선도도시 네트워크 2차 총회



Introduction to the Network | GLCN 소개

Mark Hidson

Global Director, ICLEI Sustainable Procurement Centre

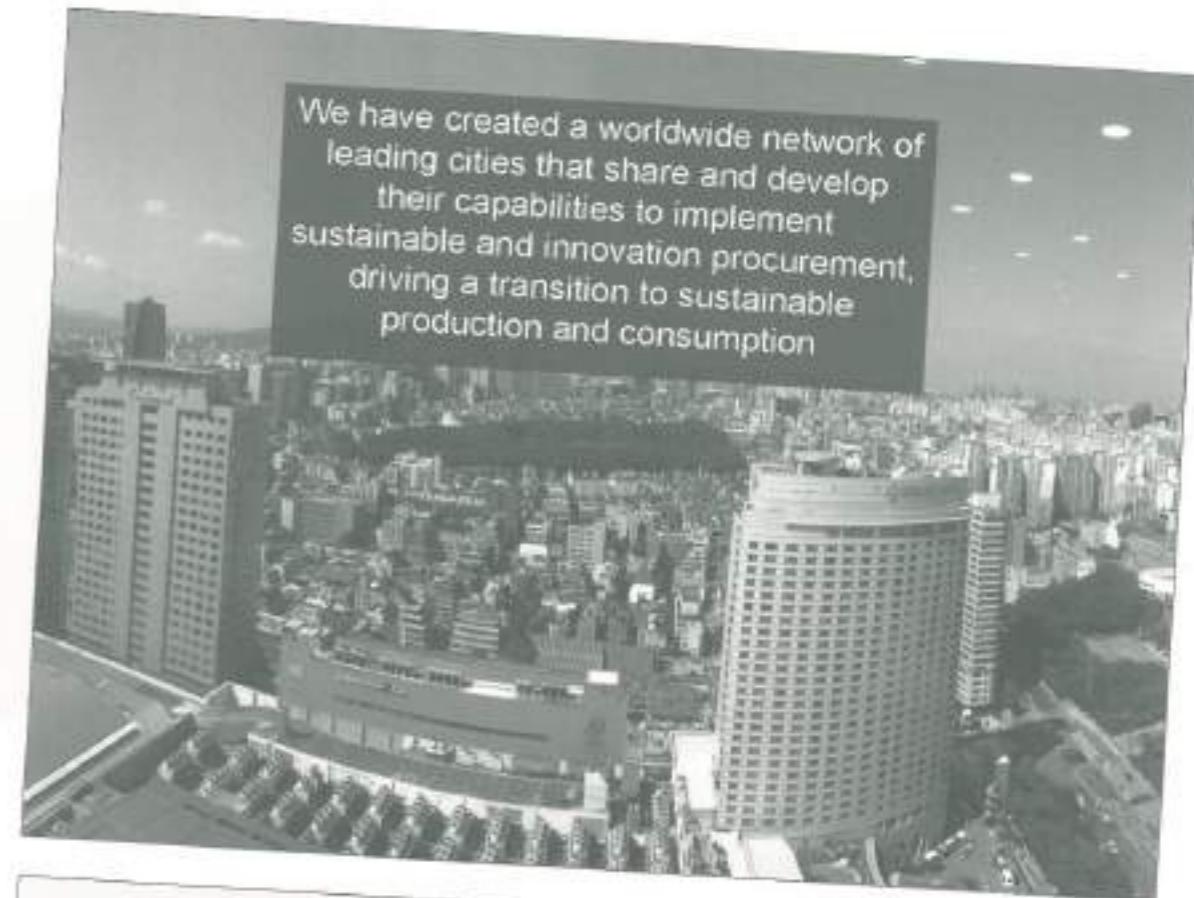
마크 히드슨

ICLEI 유럽본부 국장

GLOBAL LEAD CITY NETWORK
ON SUSTAINABLE PROCUREMENT

PROCURING SUSTAINABLY LEADING GLOBALLY

Mark Hidson
Global Director ICLEI's Sustainable Procurement Centre

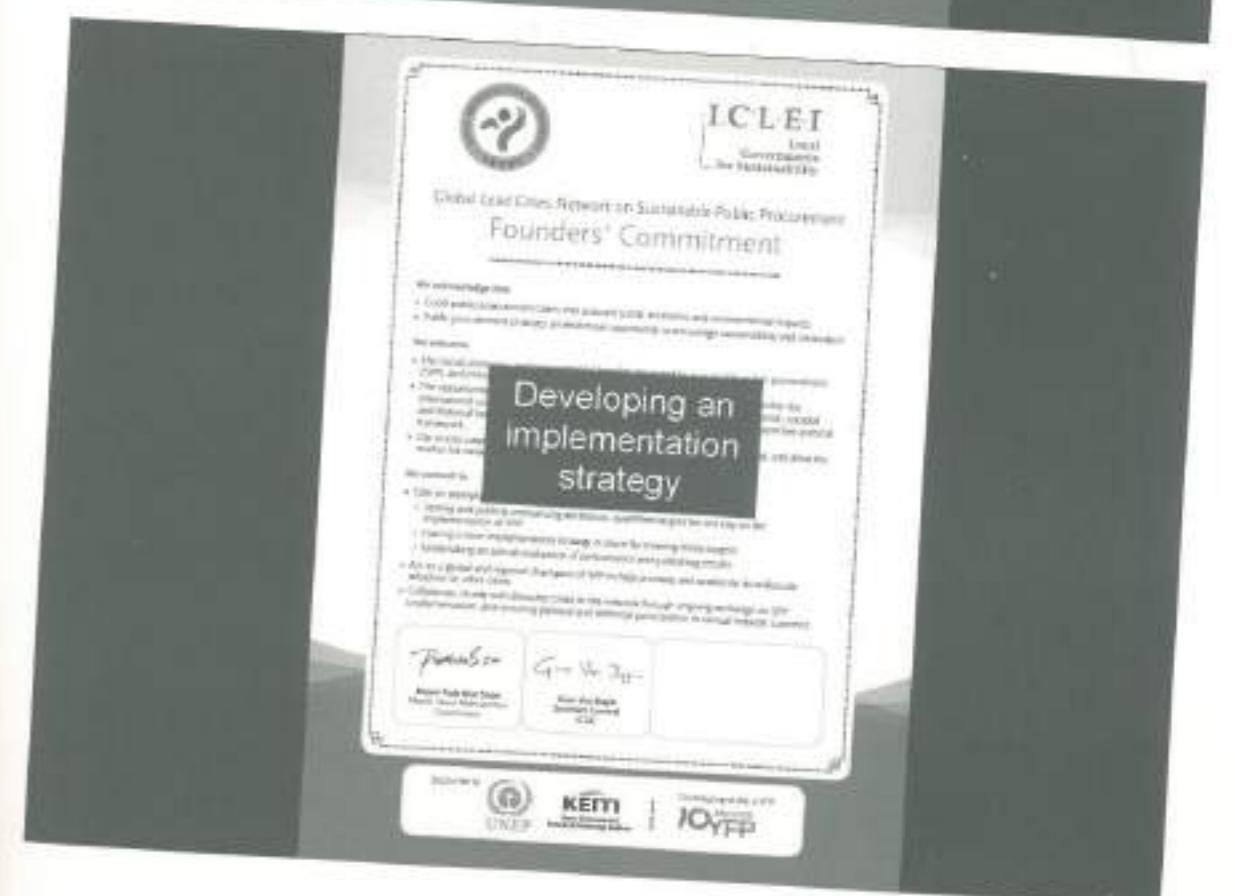
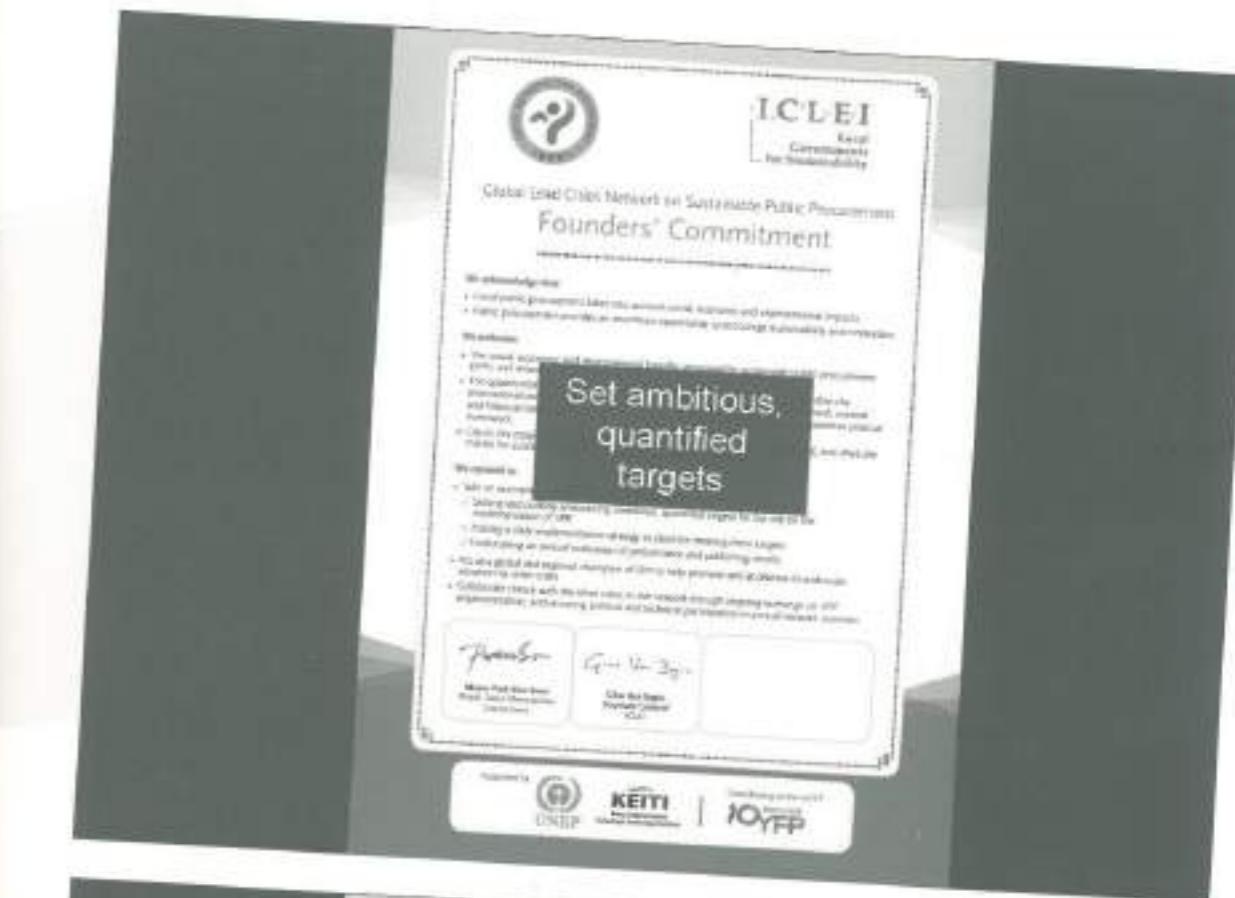
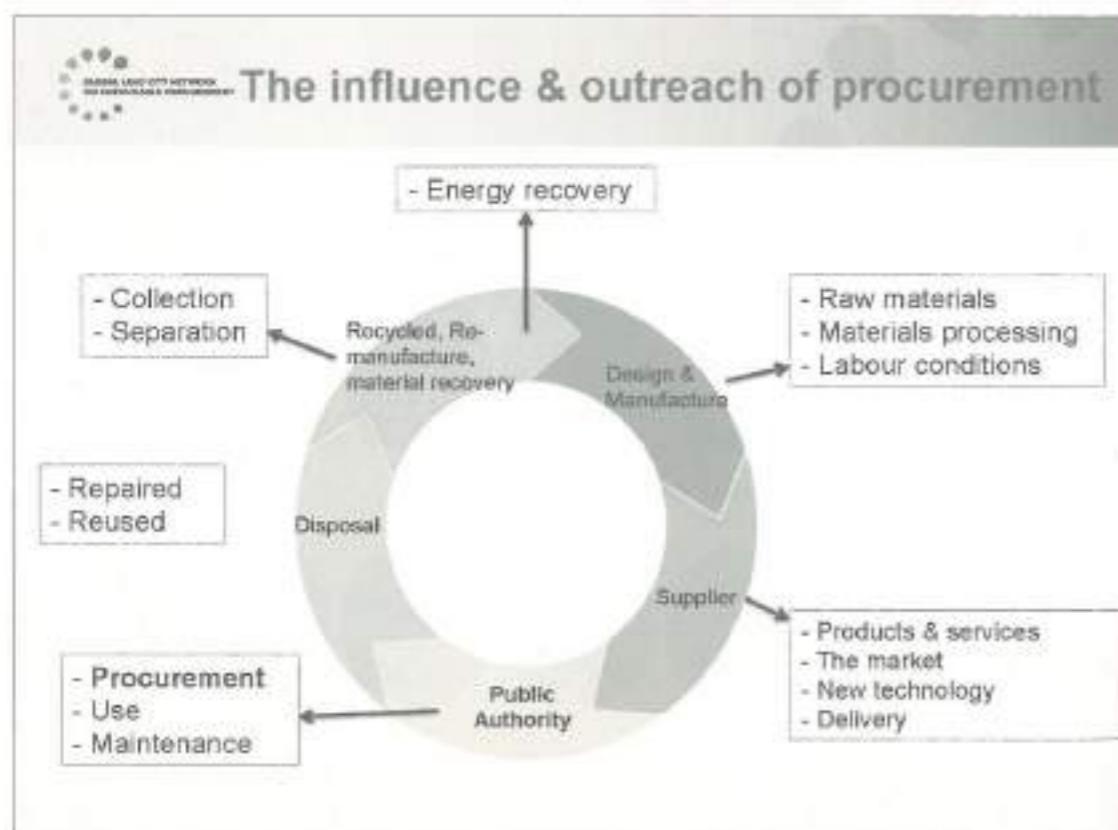


We have created a worldwide network of leading cities that share and develop their capabilities to implement sustainable and innovation procurement, driving a transition to sustainable production and consumption

Who is in the Network?

AUCKLAND BUDAPEST CAPE TOWN OSLO MONTREAL QUEZON CITY

DENVER KINSHASA BEIJING ROTTERDAM SEOUL TSINGHUA WARSAW



ICLEI
Local
Governments
for Sustainability

Global Lead Cities Network on Sustainable Public Procurement
Founders' Commitment

What's next...

Reporting on achievements

We acknowledge that:

- Good public procurement policies can deliver social, economic and environmental benefits.
- Public procurement provides an enormous investment opportunity to encourage sustainable development.

We believe:

- The Global Lead Cities Network on Sustainable Public Procurement is a platform for cities to share best practices, experiences and knowledge on sustainable public procurement.
- The network will facilitate the implementation of SPPIs by working with local governments to:

 - Setting and publicly communicating ambitious, quantifiable targets for the implementation of SPPIs;
 - Making a clear commitment to engage in projects for creating public value;
 - Conducting an annual evaluation of performance and publishing results;
 - Act as a global and regional champion of SPPIs to help promote and accelerate SPPIs at the national and international levels;
 - Collaborate closely with other cities in the network through ongoing learning on SPPI implementation, exchanging political and technical know-how on annual review & summits.

Key contact:

- Mark Hidson, Global Lead Cities Network on Sustainable Public Procurement (GLCN)
- Gary Newbold, GLCN Secretariat (GLCN)

Supported by:

- UNDP
- KEITI
- 10YFP

ICLEI
Local
Governments
for Sustainability

Global Lead Cities Network on Sustainable Public Procurement
Founders' Commitment

What's next...

Acting as global & regional champions

We acknowledge that:

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Supported by:

- UNDP
- KEITI
- 10YFP

What's next...

Raising the global profile

Monitoring performance

Deepening co-operation and exchange amongst participating cities.



How does your city spend money?

mark.hidson@iclei.org

Follow us on: @GLCN_on_SP
Join the conversation: #GLCN_on_SP
www.glcn-on-sp.org

Thank you



Image: © stock photo



Keynote Presentation | 기조발표

The power of sustainable procurement | 지속 가능한 조달의 힘

Ju-Hyun Cho

Director of Sustainable Lifestyle Office, Korea Environmental Industry & Technology Institute (KEITI)

조주현

KEITI 친환경생활 실장

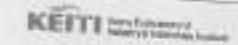
The Power of Sustainable Procurement

Seoul Mayors Forum on Climate Change 2016
September, 2nd, 2016

Mr. Juhyun Cho
Director, Sustainable Lifestyle Office
Korea Environmental Industry & Technology Institute

KENT Quality Components
Innovative Technologies

Contents



- 1 Why Public Procurement Matters?
 - 2 Various SPP Policies in Korea
 - 3 Green Public Procurement in Korea
 - 4 Sustainability Impacts of GPP in Korea
 - 5 Way Forward



Introduction of KEITI

Vision

"To be a leading environmental institution with the aim of harmonizing the environment and the economy"

Mission

To contribute to sustainable development through technology development, industry nurturing and eco-friendly lifestyle promotion

Work Areas



Other Info.



Why Public Procurement Matters?

With its purchasing power, governments can lead by example to drive sustainable market transformation



Economic Benefits
(e.g. eco-innovation,
budget savings)



Environmental Benefits
(e.g. reduction of waste
& CO2 emission)



Social Benefits
(e.g. job creation,
protect minority group)

- Public spending accounts for 12 to 30% of national GDP
- Global procurement market is estimated at 5 trillion USD/year

KEITI Korea Environmental Institute & Technology Institute

Various SPP Policies in Korea (1)

❖ Mandatory



Green products procurement
Ministry of Environment, from 2005

❖ Preferential



SME-manufactured products procurement
Ministry of Trade, Industry and Energy, from 2009



Female-owned business products procurement
Ministry of Employment and Labor, from 1999



Social enterprise-manufactured products procurement
Ministry of Employment and Labor, from 2012



Disabled-manufactured products procurement
Ministry of Health & Welfare, from 2004

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Various SPP Policies in Korea (2)

There is no coordination mechanism in place among various SPP policies

Local authorities and public organizations are evaluated against their SPP records annually, which affects performance bonus of the respective organizations

- For local authorities, GPP records accounts for about 1% of the total scores to be evaluated by Ministry of Public Administration
- For public organizations, GPP records accounts for about 0.4% of the total scores to be evaluated by Ministry of Strategy and Finance

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Green Public Procurement in Korea (1)

Article 6 (Public Institutions' Obligation to Purchase Green Products) of the Act on Promotion of Purchase of Green Products

The heads of public institutions shall purchase green products, when they intend to purchase any product

No quantitative target is set by the central government

Public authorities are obliged by the Act to produce and report to MOE

- * Implementation Plan on GPP with voluntary targets
- * Performance Report with the amount of green product purchased

Target organizations

Central government, Local government, Public corporation, Public institutions, Public educational institutes

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Green Public Procurement in Korea (2)

Green Products defined by the Act on Promotion of Purchase of Green Products

- * Certified or Meet the criteria set either by the Korea Eco-Label or the Good Recycled Mark
- * Meet other environmental standards set by MOE in consultation with the relevant ministries

	Korea Eco-Label	Good Recycled Mark
Product Categories	156 categories including office equipment, construction materials	15 categories including waste paper, glass
Number of Products	2,749 companies, 17,495 products (As of Jul. 2016)	196 companies, 236 products (As of Jul. 2016)
Certification Authority	Ministry of Environment	Ministry of Trade, Industry and Energy

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Green Public Procurement in Korea (3)



Green Products Information Platform (GPIP)

- Main source of information for GPP in Korea
- Catalogue of green products updated every month
- GPP guidelines, Best practices, and GPP results reports



Sharing & Awarding Best Practices

- Annual workshops to exchange best practices
- 3 different targets: local gov, public institutions, and Army
- Awards are presented to best performing institutions



GPP Guidelines, Standard & Training

- Purpose, legal basis, target organizations, working mechanism of GPP
- Standard Ordinance for Promotion of Green Procurement for local and provincial government
- Annual nationwide training offered from November to December every year



Financial Incentives

- GPP as a part of indicators for the annual performance bonus
- Based on the annual GPP records
- KEITI evaluates based on
 - Level of green purchases
 - Efforts to Improve GPP

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Green Public Procurement in Korea (4)

Monitoring GPP

Since 2005, KEITI monitors

- * The number of public authorities submitting GPP implementation plans and its implementation
- * The total amount of green products purchased

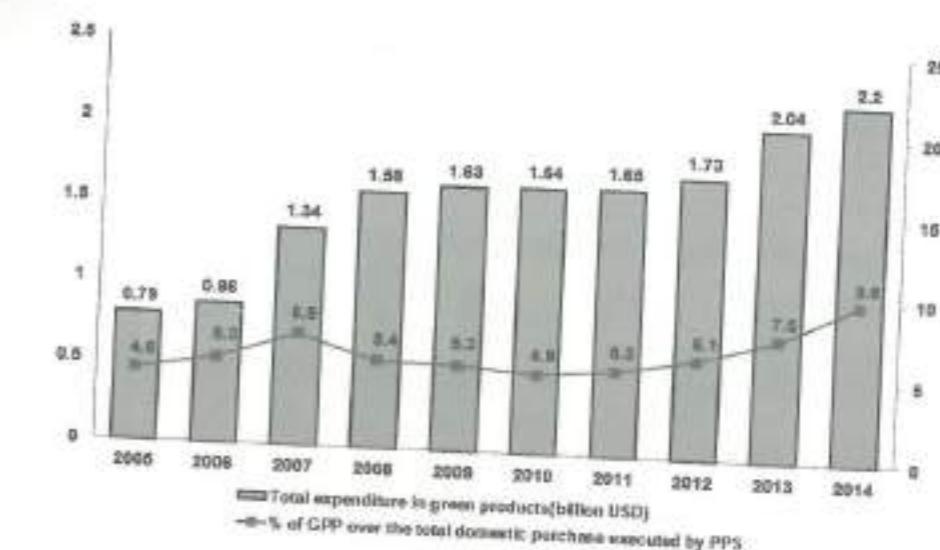
Data comes from

- * KONEPS (PPS) – for centralized purchases
- * Green Market – for decentralized on-line purchases
- * Green Purchase Information Platform – for decentralized purchases, tracked by each authorities and reported through GPIP platform

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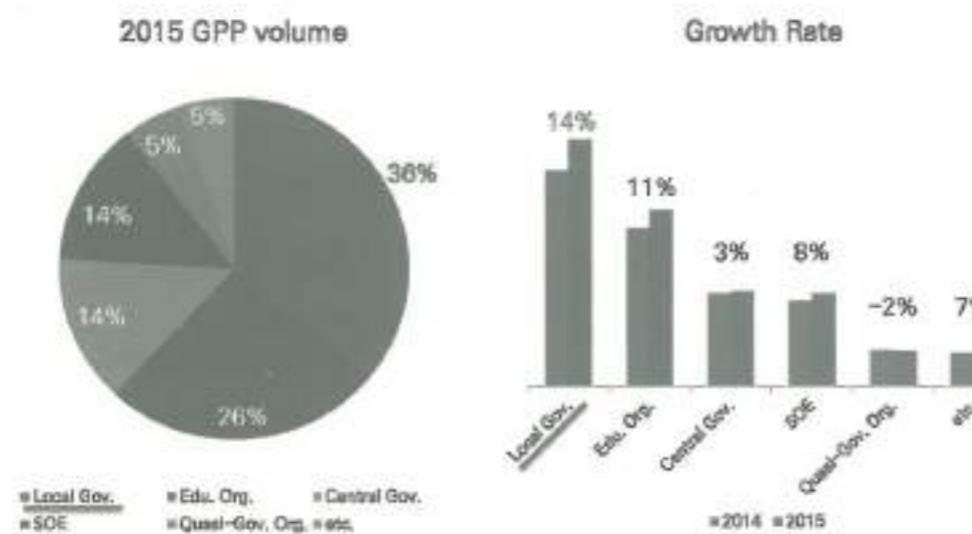
Green Public Procurement in Korea (5)

Expenditures in green products



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Green Public Procurement in Korea (6)

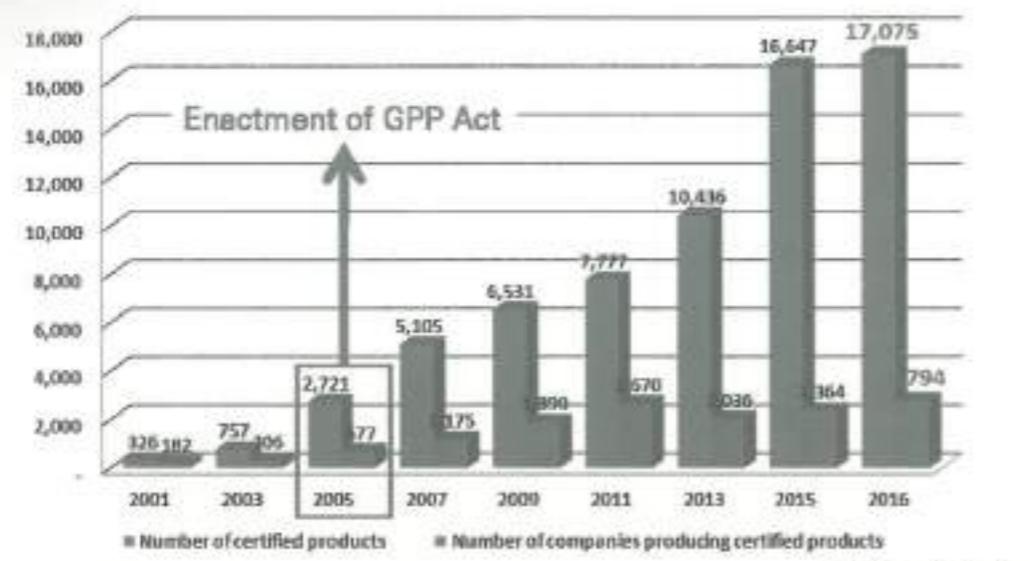


Local authorities account for the largest share of national GPP with the fastest growing rate among others in 2015

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Sustainability Impacts of GPP in Korea (1)

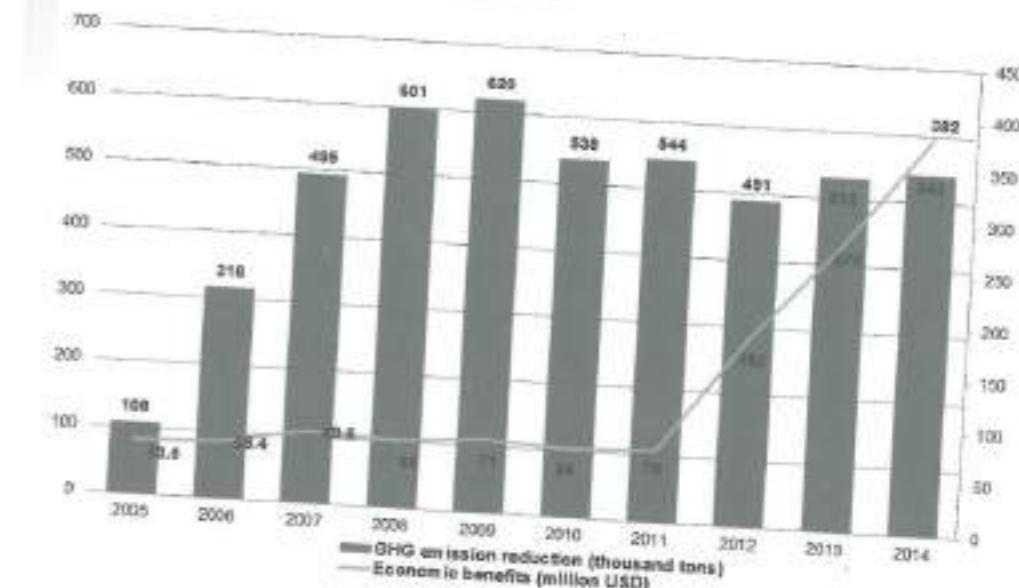
Growing market for eco-labeled products



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Sustainability Impacts of GPP in Korea (2)

Environmental benefits of GPP



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Way Forward

- Public procurement should serve to meet national policy goals and emerging environmental challenges (e.g. GHG emission reduction)
- Current procurement practices (based on the lowest price bidding) should shift towards incorporating social and environmental costs
- Support for SMEs in strengthening capacities of supplying sustainable products should be enhanced
- Close cooperation among international organizations, governments and suppliers is required to promote SPP

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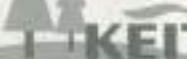
Thank you very much!

Mr. Juhyun Cho

Director, Sustainable Lifestyle Office

Korea Environmental Industry & Technology Institute

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한국환경산업기술원

www.keiti.re.kr

MEMO



Commitments and achievements of the cities | 도시발표

Michał Olszewski

Deputy Mayor, City of Warsaw, Poland

마이클 올스즈위스키

바르샤바(폴란드) 부시장



**Warsaw
Energy**
Use Sensibly!

Sustainable procurement
commitments and activities
undertaken by the City of Warsaw

Michał Olszewski, Deputy Mayor of the City of Warsaw



Energy and climate goals



Key documents

Sustainable Energy Action Plan

Low-Emission Action Plan

Goals till 2020

↓ 20%
CO₂ emission reduction

↓ 20%
reduction of energy use

↑ To increase share of RES in energy production

↑ To improve air quality, health and comfort of living of Warsaw inhabitants

New goals beyond 2020 are in process of preparation



Key investments – - sustainability, energy efficiency

Public transportation

New tram lines

130 e-buses

Development of bicycle paths

New energy efficient trams

II metro line

Expansion of bike-sharing system

Energy efficiency in buildings

Complex thermal retrofitting of public buildings

Introduction of RES for electricity and heat production

District heating

131 social buildings connected to district heating in 2010-2016

229 social buildings connected to district heating in 2016-2020

Cooperation between energy companies (Vedra, PGNiG TEPNICA) and City of Warsaw

Sustainable procurements in the City of Warsaw



Challenge

Model role of public administration in terms of energy efficiency, climate and environment protection

Main topics

Public transport Public buildings

Legal basis

Directive 2009/33/EC on the promotion of clean and energy-efficient road transport vehicles Directive 2010/31/EU on the energy performance of buildings

- ✓ take into account the operational lifetime, energy and environmental impacts:
 - energy consumption,
 - CO₂ emissions,
 - emissions of NOx, NMHC and particulate matter.
- ✓ after 2018 new buildings occupied and owned by public authorities are „nearly zero-energy”.
- ✓ leading example of the public sector,
- ✓ develop policies and take measures to stimulate the transformation of buildings that are refurbished into „nearly zero-energy” buildings.

Examples of sustainable procurements PURCHASE OF E-BUSES



Low emission buses in operation

4 hybrid 18-metre buses since 2011	35 gas buses since February 2015
10 e-buses since June 2015	

Warsaw – member of C40 since 2007 and participant of its Low Emission Vehicle Network - signed the C40 Clean Bus Declaration in 2015.

Plans for the future

130 electric buses in operation till 2020



Tender for gas-powered buses



Tender open for CNG+ and LNG-powered buses

Tender covered refuelling infrastructure and delivery of fuel

LNG-powered buses selected	Advantages	Disadvantages
LNG buses are lighter and may have longer range	LNG is transferred directly to bus tanks, without compressors, which consume additional electric energy in case of CNG	small share of LNG buses in the market so far (results in lack of operational experience with them)
		very limited choice of manufacturing companies

Examples of sustainable procurements PUBLIC BUILDINGS



Analysis of energy efficiency of selected public educational buildings

Possible savings thanks to thermal retrofitting	Use of energy	CO ₂ emissions	Energy costs
85,7 GWh/year	28 000 tonnes CO ₂ /year	4,9 mln €/year	

NEXT STEPS

Guidelines for improving energy efficiency in public buildings:
 1. existing
 2. newly built

Preparation of pilot investments that will be good practices of „green” procurements

Ordinance of the Mayor of Warsaw obliging City units to prepare retrofitting and building investments according to the guidelines



Guidelines for improving energy efficiency in public buildings

GOAL

Minimum energy standard of the insulation of building envelope – equal to or higher than year 2010 or higher

35 kWh/m²/year
Energy demand for heating, DHW, ventilation

800 ppm CO₂
Air quality in educational buildings

Proposed criteria for the terms of reference

The requirement to obtain green building certificate (LEED, BREEAM)

Guidelines for designing of partitions, hot water installation, ventilation, air conditioning, BEs

Economic criterion (with the balance of 60%)

The requirement to obtain green building certificate (LEED, BREEAM)

The lowest total cost of construction and operation of the building

NEXT STEP

Educational building with the highest potential of energy use reduction to be selected as demonstration buildings for „green“ procurement



MEMO



Commitments and achievements of the cities | 도시발표

Johannes van der Merwe

Councillor, Cape Town Metropolitan Council, South Africa

요한 반 더 멀위

케이프타운(남아공) 시의원

GLOBAL LEAD CITY NETWORK ON SUSTAINABLE PROCUREMENT

PROCURING SUSTAINABLY, LEADING GLOBALLY

CITY OF CAPE TOWN

GLCN Summit | 02 September 2016

Councillor Johannes van der Merwe | Mayoral Committee Member

CITY OF CAPE TOWN
ISIKEKO SASEKAPA
STAD KAAPSTAD

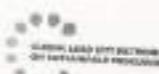


Vision for Sustainable Procurement

To shift the City of Cape Town's procurement practices to incorporate sustainable procurement as a new way of working with the ultimate goal of fully mainstreaming sustainable procurement.



GLCN Summit | 02 September 2016



Cape Town – Overview

Total area: 2 461 km² (one of the largest municipalities in the world)

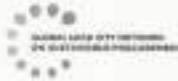
Population: 3 860 589 (2014 estimate)

Number of Households: 1 068 572 (2011 estimate)

Contribution to GDP: approx. 11%

GDP per capita: R58 844 (approx. \$4 500)

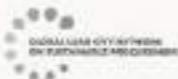
City located at the core of a global biodiversity hotspot (Cape Floristic Region). 69% of plant species are endangered



Sustainable Procurement Targets

- Sustainable Procurement Action Plan... The road to targets
- Objectives of the Action Plan:
 1. Ensure that policies to support sustainable procurement are in place
 2. Maximise the City's purchasing of sustainable products
 3. Maximise the City's purchasing of sustainable services
 4. Increase the number of green/sustainable buildings built by the City
 5. Incorporate sustainable procurement into the City's large infrastructure projects
 6. Communicate effectively with the public and City staff
 7. Monitor and evaluate the City's performance

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Past achievements – 2015 and 2016

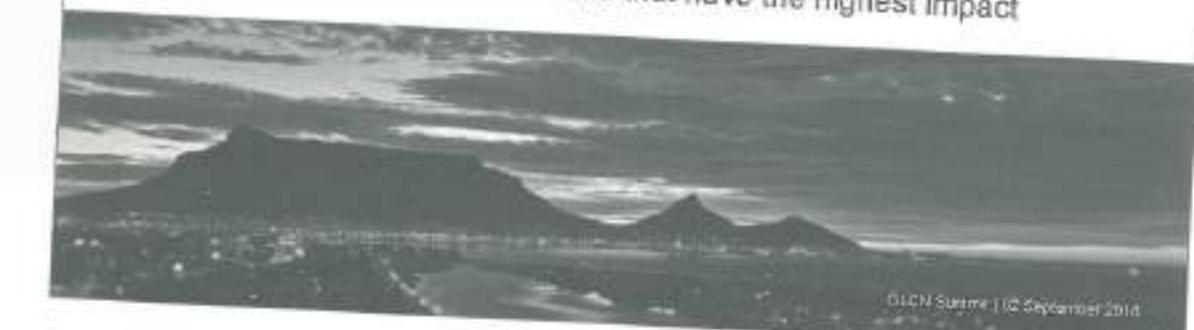
- Approx. 20% of street lights have been retrofitted with LEDs (ongoing)
- 26% of large municipal office buildings retrofitted for energy efficiency (ongoing)
- Energy efficiency requirements fully integrated into IT procurement – work on return/buyback programme for printing consumables initiated
- City vehicle fleet tenders include fuel efficiency and Euro emissions standards, where applicable (ongoing)
- Detailed study of the greening potential of the City's cleaning chemicals/products stock items completed.
- Low-cost housing developments incorporate green building elements to promote resource efficiency and quality of life, where possible (ongoing)
- Greener technologies for roads projects implemented in major road projects – use of warm-mix asphalt and "linear quarries" (recycling road materials)
- Options for greening the City's paper supply and printing contracts being tested
- Procurement of electric buses for IRT system
- Final draft of Sustainable Procurement Action Plan completed

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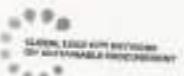


Plans for the Future

- Finalization and adoption of the Sustainable Procurement Action Plan as part of the City's Green Economy Strategy and Action Plan
- Implementation of Sustainable Procurement Action Plan
 - Initial focus on "low hanging fruit"
 - Prioritisation of interventions that have the highest impact



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Thank you very much!



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

GLCN Summit | 02 September 2016

Councillor Johannes van der Merwe | City of Cape Town

Johannes.VanDerMerwe@capetown.gov.za

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The Global Lead City Network on Sustainable Procurement is a group of cities committed to drive a transition to sustainable consumption and production by implementing responsible and innovative procurement. All participating cities are acting as ambassadors of sustainable procurement to lead to a resource efficient, low carbon and socially



Commitments and achievements of the cities | 도시발표

Roger Lachance

Director of Department of Environment, City of Montréal, Canada

로저 라찬스

몬트리올(캐나다) 국장

GLOBAL LEAD CITY NETWORK
ON SUSTAINABLE PROCUREMENT

PROCURING SUSTAINABLY. LEADING GLOBALLY.

TOGETHER TOWARD SUSTAINABLE CITIES

September 2, 2016

Mr. Roger Lachance, Director, Environmental Dept., Montréal, Québec, Canada

Montréal



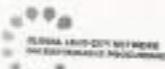
Montréal, Québec, Canada

Brief overview



Montréal

2nd Annual Summit of the GLCN in SP



New member of the GLCN

Montréal's objectives

- Ensure a transition to responsible procurement
 - Resource-efficient
 - Low carbon
 - Socially responsible
- Set an example
- Disclose results
- Share experiences and learn...



Montréal

2nd Annual Summit of the GLCN in SP



"Together toward sustainable cities"

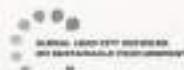
Montréal's vision and beliefs

- Global Lead City Network on SP new
- ICLEI_Local Governments for Sustainability
- World Mayors Council on Climate Change
- Great Lakes and St. Lawrence Cities Initiative
- Compact of Mayors
- 100 Resilient Cities
- Metropolis



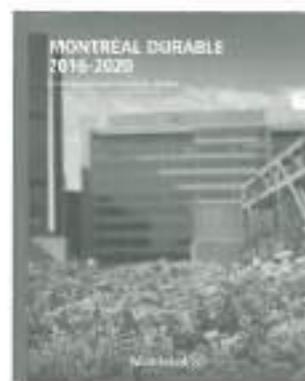
Montréal

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Sustainable Montréal 2016-2020

3 sustainable development challenges



- 1 **LOW-CARBON MONTRÉAL**
Reduce GHG by 80% by 2050
Reduce and adapt
- 2 **EQUITABLE MONTRÉAL**
Improve access to services and facilities
Inclusiveness and fight against inequality
- 3 **EXEMPLARY MONTRÉAL**
Adopt exemplary sustainable development practices
Lead the way and mobilize

Montréal

2nd Annual Summit of the GLCN on SP



Sustainable Montréal 2016-2020

Some of our sustainable procurement targets

Electrify and optimize Montréal transportation

- Convert 30% of the Société de transport de Montréal bus fleet to hybrid engines
- Convert 230 municipal vehicles to 100% electric power
- Install 1,000 on-street electric charging stations across the city
- Establish a regulatory framework to allow private-sector deployment of 1,000 car-sharing electrical vehicles

Increase the number of sustainable buildings in Montréal

- Aim to reach 70 LEED or BOMA BEST certified municipal buildings

Use responsible procurement practices

- Improve the "socially responsible procurement" aspect of Montréal's procurement policy
- Have Fairtrade Canada recognize Montréal as an equitable city
- Join the Global Lead City Network on Sustainable Procurement

Montréal

2nd Annual Summit of the GLCN on SP



Sustainable Montréal 2016-2020

Some of our sustainable procurement targets



SUPPLEMENTARY DOCUMENT II

IMPROVEMENT OF THE "RESPONSIBLE PROCUREMENT" DIMENSION OF THE MUNICIPAL ADMINISTRATION'S SUSTAINABLE DEVELOPMENT ACTION PLAN 2016-2020

- Identify goods and services with an impact on GHG
- Make it easier to use social-economy companies
- Improve and disseminate our tools
- Train our employees

Montréal

2nd Annual Summit of the GLCN on SP



Sustainable Montréal 2016-2020

"Together for a sustainable metropolis"

Contributions from Montréal organizations

- Adopt a socially responsible purchasing policy and/or criteria and choose suppliers who respect sustainable development practices.
- Support the development of a social and solidarity economy, in particular by increasing the organization's use of services and products from these types of businesses.
- Reduce, optimize and electrify the vehicle fleet and install charging stations for the organization's electric vehicles.
- Build and/or renovate buildings sustainably, by meeting or targeting recognized certification criteria, improving energy efficiency and eliminating, where applicable, heating oil as energy source.

Montréal

2nd Annual Summit of the GLCN on SP



Thank you!

September 2, 2016

Mr. Roger Lachance, Director, Department of the Environment, Montréal, Québec,
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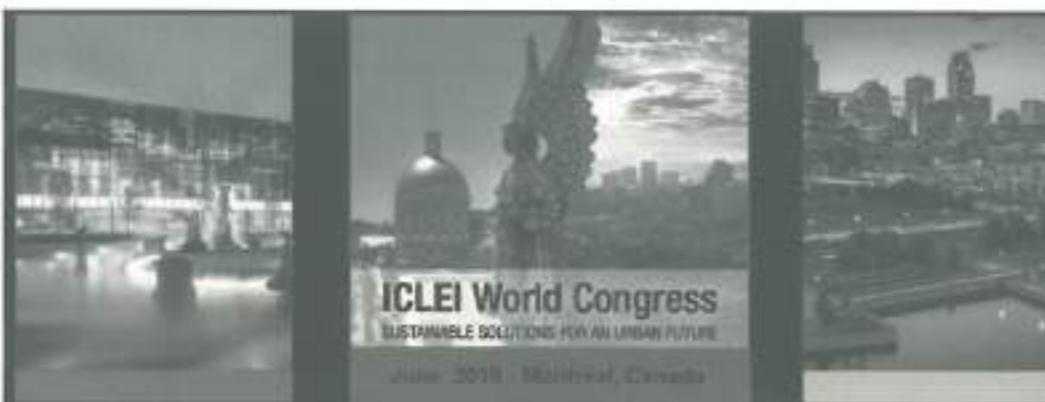
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ICLEI World Congress 2018

"Together toward sustainable cities"



Montréal

2nd Annual Summit of the GLCN on SP



Commitments and achievements of the cities | 도시발표

Perttu Pohjonen

Special Envoy of Deputy Mayor Pekka Sauri, City of Helsinki, Finland

퍼트 포호넨

헬싱키(핀란드) 부시장 특사

GLOBAL LEAD CITY NETWORK ON SUSTAINABLE PROCUREMENT

PROCURING SUSTAINABLY, LEADING GLOBALLY

PROCURING THE SUSTAINABLE FUTURE

2nd Annual Summit GLCN on SP | September 2nd 2016, Seoul

Mr. Perttu Pohjonen | City of Helsinki, Finland



City of Helsinki, Finland Country and city facts

- Population: 5.4 million (UN, 2014)
- Area: 338,145 sq km (6th in Europe)
- Major languages: Finnish, Swedish
- GNI per capita: US \$40,000 (World Bank, 2013)
- Capital: City of Helsinki
- Population: 620,000
- City personnel: 40,000
- Coordinates: 60°10'15"N



2nd Annual Summit GLCN



Sustainable procurement Target

Within the city Environmental Policy

100% sustainable by 2020

The main goal of Helsinki's climate policy is to reduce emissions by 30 percent, from the 1990 level, by 2020.

In the long run, by 2050, Helsinki aims to be a carbon neutral city.



- Strategy programme of the City of Helsinki
- Covenant of Mayors
- Climate Strategy of the Capital City Area
- Energy-efficiency agreement
- Climate Roadmap



2nd Annual Summit GLCN



Sustainable procurement

Actions 2015

The Sustainable Procurement Guide was published in autumn 2015
The City's environmental network for procurement has reinforced the cooperation and information exchange between the parties in charge of the City's procurement.

2015 Environmental report

Joint procurement unit	Proportion in euros	Proportion in numbers
Procurement Centre	48,1 %	51,3 %
Stora	100 %	100 %

3000 tonnes CO₂ emitted (2015)



Thank you very much!

2nd Annual Summit GLCN on SP | 02.09.2016
Perttu Pohjonen | City of Helsinki
E-Mail: Perttu.Pohjanen@helsinki.fi

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MEMO



Peter Szegvari

Senior Advisor to the Lord Mayor, Capital City of Budapest, Hungary

피터 제그바리

부다페스트(헝가리) 시장 자문

Sustainable and Innovative PP Profile of City of Budapest

PROCURING SUSTAINABLY LEADING GLOBALLY

GLOBAL LEAD CITY NETWORK ON SUSTAINABLE PROCUREMENT

Seoul Mayors Forum on Climate Change 2016 | 2 September 2016

Péter Szegvári | City Hall of Budapest, Hungary



Budapest in Numbers

Capital of Hungary and Center of Metropolitan Region

- Approximately 1.7 million people (17% of HU) / 35% of GDP of HU
- Territorial Competitive Metropolis of EU with 3 million people
- Growth Pole of World Economic and 'Pearl of Danube'
- Two-tier PA system with 23 district self-government
- Centralized PP system



Péter Szegvári / Seoul Mayors Forum on Climate Change 2016



Vision of Budapest: Procuring Sustainably – Leading Globally

Sustainable and Innovative factors to be used

Provisions as the Contractor's obligations in the Contract:

- work out and present innovative solutions regarding energy saving;
- work out and present green and sustainability aspects



Péter Szegvári / Seoul Mayors Forum on Climate Change 2016

Implementation of SPP Strategy in Budapest

OUR SIPP ACHIEVEMENTS - EXAMPLES

- Inauguration of public bicycle-sharing system ("BUBI") to reduce CO₂ emission
- Employing green criteria in the procurement process for the lighting of the Liberty Bridge (more than 500 LED lights were installed to save power)
- Construction of merging tramway tracks on the Buda side to replace some bus lines and reduce CO₂ emissions
- Construction of a new Central Sewage Farm and laying of more than 200 km of new pipes to reduce waste-water discharged into River Danube by more than 30 %

Péter Szegvári / Seoul Mayors Forum on Climate Change 2016



Upcoming procurements for SIPP interventions to reduce energy consumptions

EXAMPLES

Complex energetic renewal of the City Hall



Establishment of a heat cooperation system in South-Budapest

Péter Szegvári / Seoul Mayors Forum on Climate Change 2016

Challenges for implementation of SIPP Strategy in Budapest

Lessons Learned / Future Opportunities

- Acceptance of SIPP Strategy / Political engagement
- Lack of knowledge and skills / Capacity building
- Supportive regulatory system / International networking (Climate KIC – CEPPI / Visit our website: www.ceppi.eu)
- Adequate financial environment / ISCO model and Special Urban Development Fund

Péter Szegvári / Seoul Mayors Forum on Climate Change 2016



Thank you very much!

Péter Szegvári | City Hall of Budapest

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The Global Lead City Network on Sustainable Procurement is a group of cities committed to drive a transition to sustainable consumption and production by implementing responsible supply.

MEMO

Seoul Mayors Forum
on Climate Change 2016

Interactive interview round

Financing Local Action

인터뷰 세션

지방정부 기후행동 재정 마련



Challenges and opportunities for financing local climate actions
도시와의 대화

Noel Rosal

Mayor of Legazpi City, Philippines; Focal Mayor of Environment, Climate Change and Disaster Risk Reduction and Management of League of Cities of the Philippines

노엘 로잘

레가즈피(필리핀) 시장

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

FINANCING LOCAL ACTIONS

The Legazpi City Experience

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

Legazpi City Vision

A safe and resilient Legazpi through community-based

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

Overview of Legazpi City

Population: 196,467 (2015 Census)

Land Area: 20,437.05 has. (CLUP 2009-2010)

Administrative Structure:
70 Barangays/Villages

Strategic Roles:

- Major Growth Center of Albay Province
- Regional Administrative Seat
- Regional Center for Education and Health
- Hub of Best Practices in Southern Luzon & Northern Visayas

Hazards and Climate Change Effects

Hydro-Met Hazards	Landslide & Erosion	Earthquake Hazards	Fire Hazards	Volcanic Hazards	Transport Hazards
Drought	Agri. Pests & Diseases	Increased Seasonal Rainfall	Flooding	Sea Level Rise	Windstorms
Dimane Outbreak	Inc. Des. Temperature	Drought	Flooding	Volcanic Eruption	Transport Disruption
Lahar due to torrential rains	Agri. Pests & Diseases	Increased Seasonal Rainfall	Sea Level Rise	Volcanic Eruption	Transport Disruption

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

Climate Commitments and Targets

- ◆ **Institutional Support for CC Adaptation & Mitigation**
(CDRRM Office & Climate Change Center, policies and ordinances)
- ◆ **Ensured funding for DRR and CCA Programs & Projects**(Local DRRM/CCA Fund, Grants & Partnerships)
 - > Master Drainage & Flood Control Program - USD42M (partial)
 - > Legazpi City Sanitary Landfill - USD11M (partial)
 - > Establishment of Safe Evacuation Centers - LGU & JICA
 - > Permanent Resettlement Projects - LGU
 - > Construction of Seawall cum Boulevard - USD24M
 - > Storm Water Management - LGU
- ◆ **Zero-Casualty Objective** (Early Warning System, Communication Protocol and Evacuation Procedures)
- ◆ **Risk-Sensitive Comprehensive Land Use Planning**
(Community-based & Hazard-Specific)
- ◆ **Partnerships for Resiliency**
 - > CityLinks (icma.org) – exchange visits & knowledge sharing
 - > Academe (Bicol University & Australian National University)
 - > USAID - Cities Development Initiative (SURGE Project)

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Mitigation Plans

- ◆ **Coastal Resource Management (CRM)**
> Corals, Seagrass and Mangroves Rehabilitation and Coastal Forest Protection
- ◆ **Slope Stabilization and Environmental Protection along the Gullies of Mayon Volcano**
- ◆ **Sustainable Implementation of the City's 10-Year Master Drainage & Flood Control Plan**

Adaptation Plans

- ◆ **Climate-Adaptive High Value Crop for Food Security**
- ◆ **Feasibility Study on the Establishment of Solar Farms for Sustainable Energy**
- ◆ **Greening of City's Infrastructure**
(policy, design and implementation framework - City Hall as model)

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On Achieving our Commitment

Technical Expertise

Building local human and DRR/CCA institutional governance to design and implement more effective policies

Learning Events on Safe & Shared Development

(Training, Study Tours/Exchange Visits & Fellowships)
Investing in professional human capitalization to enhance the implementation of CC Adaptation and Mitigation projects

Financing

Grants & incentives to finance capital intensive yet high impact programs and projects (with the business sector as partner on sustainable climate impact development)

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Mabalos! (Thank You!)