

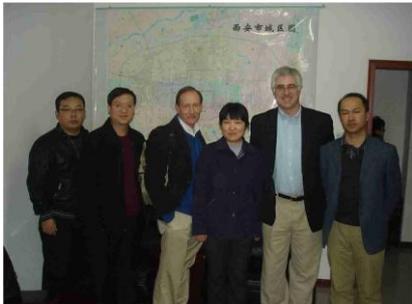
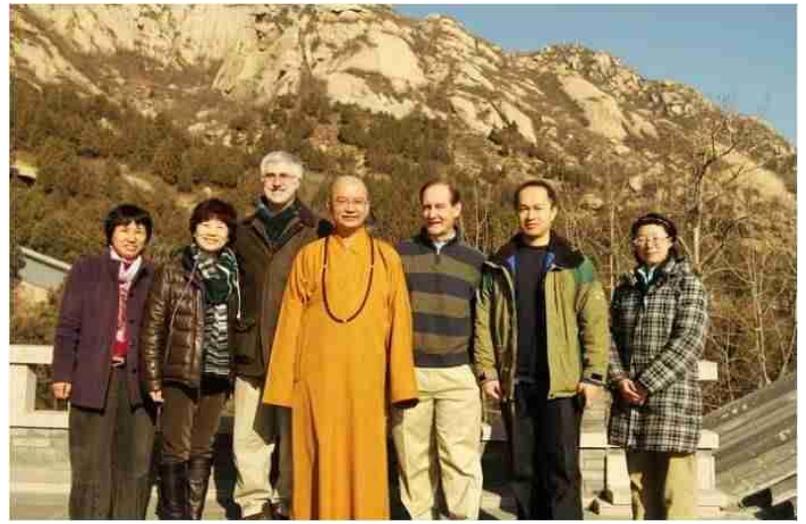
CLIMATE MITIGATION: INTERNATIONAL BEST PRACTICES

Jeff King, Director, Climate, Energy and Air Program
MWCOG Department of Environmental Programs

Dale Medearis, Senior Planner
Northern Virginia Regional Commission (NVRC)

Kate Johnson
C40

October 28, 2022



History of International Collaboration

- COG
 - U.S. State Department Climate Fellows Program
 - ICMA China Center
 - NVRC Transatlantic Climate Collaboration
 - EU Global Covenants of Mayor's (GCoM)
- NVRC
 - European Climate Collaboration
 - Partner Agreement with Stuttgart Region
 - Joint webinars and learning tours



Organizational Resource

- ICLEI
- WRI
- Global Covenant of Mayor's (GCoM)
- C40
- ICMA

**C40 WORLD
MAYORS SUMMIT**
Buenos Aires 2022



Global Covenant of Mayors (GCoM)



12629
CITIES

1.081 BN
PEOPLE

24 BN
TONS CO₂ E BY 2030

100+
GLOBAL PARTNERS



Global Covenant of Mayors



C40 is a network of mayors of nearly 100 world-leading cities collaborating to deliver the urgent action needed right now to confront the climate crisis. Together, we can create a future where everyone, everywhere can thrive.



The C40 Cities network

Directly representing **582 million** residents

Influencing **896 million** people living and working in the wider city



AFRICA: ABIDJAN – ACCRA – ADDIS ABABA – CAPE TOWN – DAKAR – DAR ES SALAAM – DURBAN (ETHEKWINI) – EKURHULENI – FREETOWN – JOHANNESBURG – LAGOS – NAIROBI – TSHWANE | **CENTRAL EAST ASIA:** BEIJING – CHENGDU – DALIAN – FUZHOU – GUANGZHOU – HANGZHOU – HONG KONG – NANJING – SHANGHAI – SHENZHEN – QINGDAO – WUHAN – ZHENJIANG | **EAST, SOUTHEAST ASIA & OCEANIA:** AUCKLAND – BANGKOK – HANOI – HO CHI MINH CITY – JAKARTA – KUALA LUMPUR – MELBOURNE – QUEZON CITY – SEOUL – SINGAPORE – SYDNEY – TOKYO – YOKOHAMA | **EUROPE:** AMSTERDAM – ATHENS – BARCELONA – BERLIN – COPENHAGEN – HEIDELBERG – ISTANBUL – LISBON – LONDON – MADRID – MILAN – OSLO – PARIS – ROME – ROTTERDAM – STOCKHOLM – TEL AVIV – WARSAW | **LATIN AMERICA:** BOGOTÁ – BUENOS AIRES – CURITIBA – GUADALAJARA – LIMA MEDELLIN – MEXICO CITY – RIO DE JANEIRO – SALVADOR – SÃO PAULO – SANTIAGO – QUITO | **NORTH AMERICA:** AUSTIN – BOSTON – CHICAGO – HOUSTON – LOS ANGELES – MIAMI – MONTRÉAL – NEW ORLEANS – NEW YORK – PHILADELPHIA – PHOENIX – PORTLAND – SAN FRANCISCO – SEATTLE – TORONTO – VANCOUVER – WASHINGTON DC | **SOUTH & WEST ASIA:** AHMEDABAD – AMMAN – BENGALURU – CHENNAI – DELHI – DHAKA – DUBAI – KARACHI – KOLKATA – MUMBAI

C40 Cities

About C40 Areas of Focus

RAISING CLIMATE AMBITION

1.5°C Climate Action Plans
High-Impact Accelerators
Inclusive & Thriving Cities
Research & Knowledge

INFLUENCING THE GLOBAL AGENDA

Green & Just Transition
Global Diplomacy & Advocacy
Financing the Green Transition
Engaging the Private Sector

BUILDING A MOVEMENT

Global Green New Deal
Global Youth & Mayors Forum
Cities Race to Zero

SCALING UP CLIMATE ACTION

Adaptation & Water
Air Quality
Energy & Buildings
Food Systems
Transportation
Urban Planning
Waste Management



International Best Practice #1

Name: **Low Emission Vehicle (LEV) Transportation Zones**

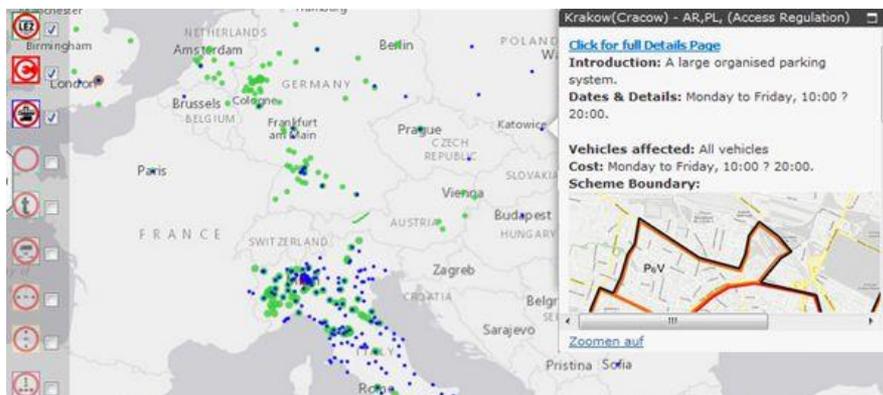
Description: **Set a fee for high emitting vehicles in specific areas. Enforce using license plate scanning.**

Impact: **Reduced vehicle traffic and/or lower emissions. Rapid adoption of LEVs. Air quality, GHG, and congestion reduction benefits.**

Places where implemented: **London UK, Milan Italy**

Potential for metropolitan Washington Region:

- **Open Streets DC, Occupancy Toll Lanes.**
- **Challenge to enforce for wide urban areas.**



Source: <https://dieselnet.com/standards/eu/lez.php>



Source: <https://tfl.gov.uk/modes/driving/ultra-low-emission-zone>



International Best Practice #2

Name: **Floating Solar Arrays**

Description: **Deploy solar arrays on reservoirs.**

Impact: **Use of available space to increase capacity of solar output.
Cooler water temperature improves drinking water quality.**

Places where implemented: **Singapore, Japan**

Potential for metropolitan Washington Region:

- **Water utilities embracing solar deployment.**
- **Novel concept, ownership/management of reservoirs.**



Source: <https://www.reuters.com/business/energy/singapore-unveils-one-worlds-biggest-floating-solar-panel-farms-2021-07-14/>



International Best Practice #3

Name: **Mobile Green Walls** “Gruene Mauer”

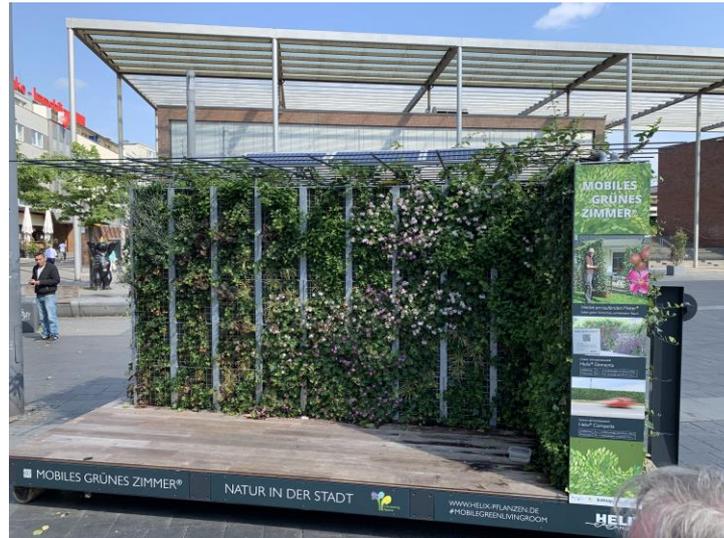
Description: Deploy green walls to urban centers on mobile trailers.

Impact: Cools urban temperature, phone charging, native/pollinator plants.

Places where implemented: **Bottrop Germany**

Potential for metropolitan Washington Region:

- High, could develop interest with universities, landscapers, and green infrastructure developers/contractors.



National Best Practice Example

Name: Streetlight Utility Pole Electric Vehicle Charging

Description: Deploy EV Charging on Public ROW using existing streetlight and power line infrastructure, Power Line Drops Down.

Impact: Increase accessibility of EV Charging, facilitate adoption of EVs

Places where implemented: Melrose, Mass; Seattle Washington

Potential for metropolitan Washington Region:

- Explore interest with owners of streetlights and utility poles.



Source: <https://cleantechnica.com/2022/05/30/national-grid-installs-pole-mounted-ev-chargers-in-massachusetts/>

NVRC Slides

See Slides from NVRC



Jeff King

Director, Climate, Energy and Air Program
MWCOG Department of Environmental Programs
(202) 962-3238
jking@mwkog.org

Dale Medearis

Senior Planner
Northern Virginia Regional Council (NVRC)
(703) 642-4630
dmedearis@novaregion.org

Kate Johnson

C40, Head of US Affairs
kjohnson@c40.org

mwkog.org

777 North Capitol Street NE, Suite 300
Washington, DC 20002