Towards A Green and Just Recovery: Opportunities for E-Mobility

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C40 is a leadership group led by mayors focused on the toughest targets in the Paris Agreement.
At 1°C of over-heating cities are already experiencing a new climate reality
Cities are at the heart of the Climate Crisis

Cities are engines of growth and innovation, but also major carbon emitters

- More than half of the world’s population live in cities
- 85% of GDP
- Cities represent 70% of global CO$_2$ emissions

Climate change affects cities

- 70% of C40 cities report they already experience the effects of climate change
- Other impacts include increased pollution and rising inequality
Cities are on the frontline of fighting the COVID-19 health crisis

Number of active cases
COVID-19 Dashboard by the Center for Systems Science and Engineering at Johns Hopkins University
C40 mayors have launched an agenda setting playbook to advocate for green and just recovery

Workers who are now recognised as essential should be celebrated and compensated accordingly, and we must create new policies to support people without homes and those living in informal settlements.

5. The recovery must improve the resilience of our cities and communities, and investments should be made to protect against future threats – including the climate crisis.
Their call to action is:

- Agree that the only stimulus should be a green stimulus
- Commit to an equitable and inclusive recovery
- Protect and champion mass transit
- Prioritise and invest in clean energy
- Invest in resilient cities as the engines of the recovery
- End all public fossil fuel investments and subsidies
Only 3 - 5% of global stimulus is green

Almost all of the current COVID stimulus funding is propping up old and polluting economies

By ignoring the opportunity to make rapid green stimulus investments, most national governments and global institutions are likely leading us towards catastrophic climate change
Growing energy demand

- SEA has seen a rapid increase in energy demand over the past 10 years. Increase in the energy demand by 60% in 2040.

- It is the main region that is projected to continue increasing use of fossil fuels in the coming decades.

- Transport is one of the most significant contributors of GHGs, and also one of the fastest growing sources of emissions in cities.

- COVID-19 has setback projects, and countries had to rework budgets and timelines.
Only a green and just recovery will halve emissions by 2030

“The most significant test of any government’s commitment to climate action right now is where it is directing COVID recovery funding.”

A focus on urban priorities can deliver both necessary emission reductions and rapid job creation.
Job creation

The chart shows the number of jobs generated per million USD invested in a Green Recovery. These capital investments imply local construction and as such, are dominated by local jobs.

Investment in new cycling and electric charging infrastructure in the city also bring quick wins for job creation, with 22 and 20 jobs per million dollar invested respectively.

Sustainable transport has very good employment potential, particularly public transport, which can generate 30% more jobs than building roads, and electric vehicles, which has the potential to generate 10 million jobs from just a 50% switch.
Air quality and health

- The exact source and scale will vary from city to city.

- The model city air pollution is dominated by the transport and industry sectors. In other SE Asian cities, the energy grid may represent a larger amount, due to higher use of coal.

- Transport is a key sector to improve air quality, with ambitious fuel switching policies. Mass transit, reduction of trips and active mode can have a big impact, especially in cities with a growing number of private vehicles.
Case study: Electric buses for Jakarta’s sustainable urban mobility

- Clean air prioritised in Jakarta, after studies showed that nearly 60% of the city’s 10 million residents suffer from diseases linked to air pollution.

- Emerging studies from the United States and China indicate that citizens with sustained exposure to high levels of PM2.5 are 8% more likely to die from COVID-19, and high levels of PM2.5 and NO\textsubscript{2} pollution are linked to over 20% more COVID-19 cases. This makes access to clean air even more critical.

- C40 Cities Finance Facility is supporting Jakarta to implement an operational trial fleet of 100 e-buses in the TransJakarta network.

- Contributes to Jakarta’s target of promoting public transport mode share to 60%, and to 100% electrify TransJakarta’s fleet by 2030.
Case Study: Air Quality Benefits

Target 2030: Electrification of 100% of Transjakarta’s bus fleet (Total fleet 14,000 vehicles)

**AIR QUALITY & CLIMATE**

- **0.8% PM$_{2.5}$ Reduction** in the city’s non-background concentration.
- **0.21 μg/m$^3$** reduction in the city’s PM$_{2.5}$ concentration.

**HEALTH**

- **58 Premature Deaths Averted** per year.
- **+975 Life Years Gained**

**ECONOMICS**

- **RP 600 Million Healthcare Costs Avoided** per year.

**100 Averted Hospital Admissions** per year, including 75 respiratory diseases and 25 cardiovascular diseases.
Principles that should guide a global green and just recovery

- Not a return to ‘business as usual’ — because that is a world on track for 3°C or more of over-heating.

- Adherence to public health and scientific expertise, in order to assure the safety of those who live in our cities.

- Excellent public services, public investment and increased community resilience will form the most effective basis for the recovery.

- Must address issues of equity that have been laid bare by the impact of the crisis.

- Must improve the resilience of our cities and communities.
Principles that should guide a global green and just recovery

● Ensure that the recovery from COVID-19 is healthy, equitable and sustainable.

● Ensure that national governments support both cities and the investments needed in cities, to deliver an economic recovery that is healthy, equitable and sustainable.

● Ensure that international and regional institutions invest directly in cities to support a healthy, equitable and sustainable recovery.

● Climate action can help accelerate economic recovery and enhance social equity, through the use of new technologies and the creation of new industries and new jobs.
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