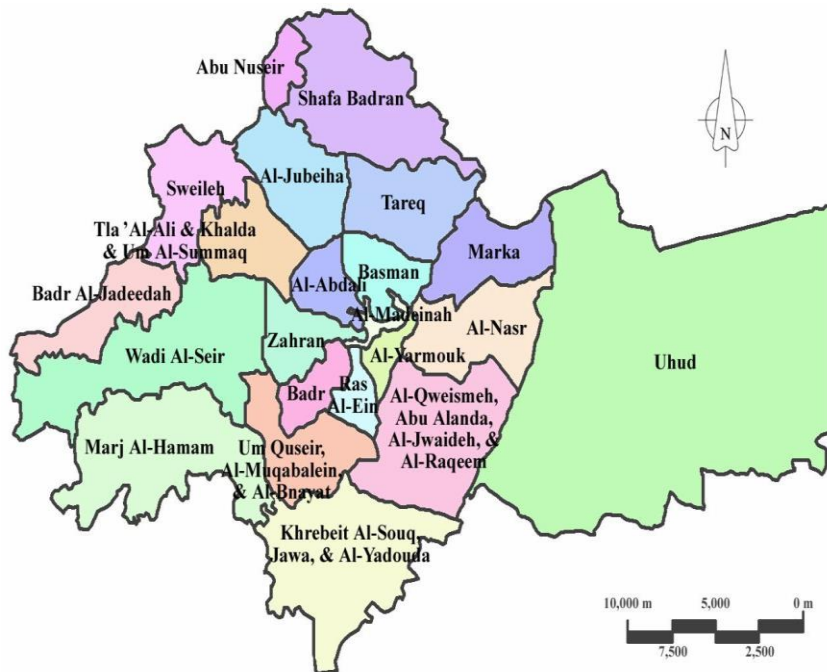


Amman Green Policies Projects and Challenges

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Amman: Demographics



Greater AMMAN Municipality GAM

- Amman is the capital of Jordan with a population of more than 9 million
- More than 40% of Jordan's population is within GAM.
- The population of Amman is growing rapidly due to immigrants and refugees (Around half a million Syrian refugees are now living in Amman).
- The area is 800 km² divided into 22 administrative districts

Risks and Challenges facing GAM

- Demand on electricity usage is progressively increasing
- Demand on infrastructure is progressively increasing
- Number of vehicles in Amman has increased dramatically exceeding 1.2 millions (7.5 million daily internal trips, 34% private vehicle usage, 18% public transport and buses usage, 8% Taxis, 5% freight vehicle usage)
- Construction materials are producing more than 2 millions of waste per year
- Amman is facing a number of **Climate hazards such as:** Heat wave, drought, flash/surface flood, heavy snow, and dust storm.

Global responsibilities towards Climate

- Amman is committed to make the city healthy, livable and resilient and for that Amman had started long time, even before the Paris Agreement and the national commitments, many Projects to improve the services provided to the citizens but also that will contribute to the efforts of mitigation or adaptation of the climate effects.
- Amman was recognized through its efforts and is now a C40 city and one of the 100 resilient cities and is committed to the compact of Mayors and the Covenant of Mayors and other networks , which all work jointly to introduce projects and policies to preserve our environment.

GAM Green Projects and Policies

- **Transportation projects:**
- **Bus Rapid Transit (BRT) Project:** The first rapid transit system in the city, high-capacity buses run on exclusive and completely segregated lanes, the system will include development and design of stops, stations and passenger information, vehicle specifications , interchanges and terminals, buses running on a high frequency with possibly as low as 3min along Amman busiest corridors. 200 thousand people expected to use BRT daily. The first phase is currently under implementation and expected to be operating by mid of 2019, with length of 25 Km financed from the French development agency AFD.



GAM Green Projects and Policies

- **Transportation projects:**
 - **Promoting the use of Electric vehicles in the city:**
 - GAM management had decided to include 50 electric cars in the fleet
 - A pilot project of 10 charging stations is being implemented in different areas in the city, 20 more stations are being planned to be installed to facilitate the use of electric cars
 - 5 of the charging stations will be supplied by solar energy, the project is expected to reduce CO2 emission by 40kton/year and 50,000 liters of gasoline/year, EVs are exempted from custom's fees which will make them much more affordable than other vehicles.

GAM Green Projects and Policies

- **Transportation projects:**
 - **Tawseeleh Initiative Project (Electric Taxis in Downtown):** In 2016 electric taxis were introduced into Downtown to provide a very affordable, environmentally friendly ride. Currently 30 taxis operate, but this will be expanded to 100 this year. About 45 drivers (some university students) taking advantage of the employment opportunity during the night shifts, the installation and maintenance of the charging stations for this small-scale initiative have generated a number of short and long term jobs.

GAM Green Projects and Policies

- **Transportation projects:**

- **Tracking and Monitoring system for Taxis Project:**

Mobile Phone application will be used by customers to call on taxis, this is designed to reduce internal trips by taxis looking for customers which is currently estimated as about 350 million km/year, GHG emission, fossil fuel consumption, traffic density are expected to be significantly reduced

GAM Green Projects and Policies

- **Transportation projects:**
- **Downtown Shuttle Bus Project:** Started in 2014 a fleet of new, comfortable, air-conditioned buses provide a free ride around Downtown with a regular 15 min service. It provides transportation service as link route between main commercial, historical and touristic sites within the city center, this reduced traffic jamming within the city center.

GAM Green Projects and Policies

- **Amman Metro Project:** being planned as the city topography was confirmed to be suitable for implementation of the Amman Metro according to the Chinese Railway Engineering Corporation study that was recently finished, a feasibility study will be prepared in the next year as a first step in the implementation.

Challenges facing non-motorized transport (NMT)

- NMT includes walking, cycling, wheelchair transport and small-wheeled transports (skateboard, skates, hand carts and others)
- In Amman NMT is very limited and is facing many challenges, such as:
 - low status perception of NMT
 - private vehicle- oriented culture
 - deficiency in NMT infrastructure, such as bicycle lanes and side walks
 - deficiency in connectivity of NMT infrastructure
 - social habits of car usage
 - challenging landscape as the topography of Amman is hilly in nature
 - climate challenges such as relatively extreme cold during most of winter mornings and nights, as well as extreme heat during most of summer noons



Suggested strategies for promoting urban NMT

- Creation and/or Improvement of NMT infrastructure such as sidewalks, crosswalks, paths, bicycle lanes and networks.
- Implementation of automated public rental bicycle system for short trips
- Development of pedestrian oriented land use and building design.
- Increasing road and path connectivity, with special NMT shortcuts
- Traffic speed reductions and vehicle restrictions
- Providing appropriate and safe secure parking.
- Bicycle integration in transit systems (e.g. racks on buses)
- Raising fuel taxes
- Promotion campaigns about the health, social, economic, and environmental benefits of NMT
- Addressing safety and security of NMT users

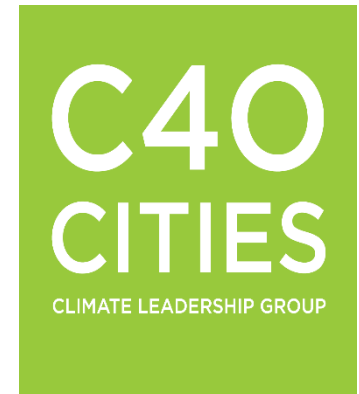
GAM Green Projects and Policies

Renewable Energy LED Street lightening Project:

- The project is substitute 114000 units of mercury street lights with a LED units in the secondary streets in Amman, and
- Another project will install LED units in the Amman streets while allowing for smart systems to be spread over the city, this will be used for smart management of traffic system in the city allowing for better flow of cars and having also effects on the reduction of emissions.
- Another project is also planned to implement a solar farm on a land owned by the municipality which will provide electricity to all GAM's buildings, gardens, utilities and street lights
- More than 12,000 of poverty-stricken houses in Amman
- The project is to reduce the need for fossil fuel consumption that generates air pollutants and other GHGs
- GAM will provide the site for the solar energy system (wheeling system) with 1200 acres (solar farm)

GAM Green Projects and Policies

- Green Building Incentive Project
- Greener Amman Projects
 - Amman Green 2020
 - Green Infrastructure
- Solid Waste Management Project
- C40 Climate Action Plan





Thank you for listening