









## **Goal B: Improve energy efficiency and energy security, including by diversifying energy sources**

Jordan's dependence on foreign energy sources is amongst the highest in the world, with 96% of the country's energy coming from imported oil and natural gas from neighboring Middle Eastern countries. Reliance on foreign imports is a significant burden on the national economy. New approaches to energy generation are needed to help move to a safe and sustainable low carbon economy and increase energy security. The development of new and renewable energy sources and technologies is a top priority in achieving this goal.



**Action 2.B.1**  
**Identify and implement energy saving solutions for municipal assets (buildings, streets, public spaces etc.)**

<p>This action includes implementing smart, green solutions such as LED lighting and solar technologies, reducing energy and water consumption, and upgrading HVAC and monitoring systems. This will help to improve the efficiency of municipal services, achieve cost savings, reduce environmental impacts, and meet Amman's energy needs without compromising our development priorities.</p>	<p><b>Owner</b>                  GAM (Investment and Assets Directorate)</p>	<p>7  9  13 </p>
	<p><b>Status</b>                  Ongoing</p> <p><b>Timescale</b>                  Short</p> <p><b>Partners</b>                  Amman Urban Observatory</p>	<p><b>Resilience Value</b></p> <ul style="list-style-type: none"> <li>• Improve the resource efficiency of municipal services.</li> <li>• Achieve cost savings.</li> <li>• Reduce environmental impacts.</li> <li>• Meet energy needs without sacrificing development priorities.</li> <li>• Enhance data collection on GAM assets.</li> </ul>

**Action 2.B.2**  
**Develop solar power generation facilities**

<p>Solar energy is a cheap and non-polluting source of energy. Amman's long, hot, dry summers and short, cool winters, are especially well suited to solar photovoltaic (PV) technologies. We have begun and will continue to install PV panels on the roofs of GAM buildings. We will continue to develop a planned solar farm in East Amman, which will be used to power GAM buildings, facilities, parks, street lighting and municipal activities. This action will be tied to the Amman Strategic Master Plan 2060.</p>	<p><b>Owner</b>                  GAM (Engineering Directorate)</p>	<p>7  9  13 </p>
	<p><b>Status</b>                  Ongoing</p> <p><b>Timescale</b>                  Short</p> <p><b>Partners</b>                  Ministry of Environment</p>	<p><b>Resilience Value</b></p> <ul style="list-style-type: none"> <li>• Provide safe and green energy.</li> <li>• Decrease reliance on fossil fuels.</li> </ul>

**Action 2.B.3**  
**Incentivize the public to adopt electric vehicles**

<p>Promote the use of EVs through a field demonstration pilot project to increase credibility in the reliability of the technology. GAM will provide incentives for uptake, including fees reductions for taxi fleets, free parking in GAM parking spots, and free charging stations.</p>	<p><b>Owner</b>                  GAM (Fleet Dir.)</p> <hr/> <p><b>Status</b>                  New</p> <hr/> <p><b>Timescale</b>                  Medium</p> <hr/> <p><b>Partners</b></p> <ul style="list-style-type: none"> <li>• Ministry of Transport</li> <li>• Public security directorate/ Department of Traffic</li> </ul>	<p>11  13 </p> <hr/> <p><b>Resilience Value</b></p> <ul style="list-style-type: none"> <li>• Reduce transport emissions and improve air quality.</li> <li>• Increase public awareness of, and uptake in low carbon technologies.</li> <li>• Create job opportunities.</li> </ul>
---	--	---



**Inspiration from Santiago de Chile**



---

**Area of Green Transportation**

---

Santiago de Chile plans to create a regional 'Area for Green Transportation' to cut emissions of greenhouse gases and other pollutants. Initiatives include the promotion of zero-emission vehicles, low-emission public busses, green taxis, electric mobility facilities, electric public cars (car sharing), and incentives for the adoption of electric vehicles.

**Action 2.B.4**  
**Replace GAM fleet vehicles with electric vehicles**

<p>As part of the Amman Smart City initiative, GAM will replace its municipal fleet with electrical vehicles (EVs). This will help to limit emissions, pollution, and damage to the environment. It will also contribute to reducing the high costs associated with importing fossil fuels.</p>	<p><b>Owner</b>                  GAM (Fleet Dir.)</p> <hr/> <p><b>Status</b>                  Ongoing</p> <hr/> <p><b>Timescale</b>                  Long term/phased</p> <hr/> <p><b>Partners</b>                  N/A</p>	<p>11  13 </p> <hr/> <p><b>Resilience Value</b></p> <ul style="list-style-type: none"> <li>• Reduce transport emissions and improve air quality.</li> <li>• Reduce costs from importing fossil fuels.</li> <li>• Reduce GAM internal expenses.</li> </ul>
---	---	--