

Electricity infrastructure is social



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Recent heatwave-related electricity disruptions in Malta have once again highlighted the importance of resilient infrastructure.

During record temperatures, electricity faults affected homes, businesses, public services, and even court proceedings. Besides the inevitable political apologies and “I told you so’s”, much of the subsequent debate has focused on the planning of electricity generation and distribution. These are undoubtedly essential issues. Yet infrastructure is far more

than a technical matter. It is also profoundly social.

Electricity grids, roads, water systems, telecommunications, transport networks, and cooling infrastructure often become visible only when they fail. Yet they embody political choices, investment priorities, regulatory arrangements, and assumptions about whose needs matter. Infrastructure therefore raises fundamental sociological questions: who enjoys reliable services, who bears the burden when systems fail, and how to people adapt when collective systems prove inadequate?

The recent power disruptions illustrate this well. A power cut is not experienced equally by everyone. Its consequences depend on factors such as housing quality, age, disability, health, employment conditions, caring responsibilities, and the extent to which people’s everyday lives and livelihoods depend on uninterrupted electricity. For some households, an outage is an inconvenience. For others, it becomes a serious health risk or a significant financial loss. Infrastructure therefore distributes opportunities, vulnerabilities, and risks unevenly across society.

The recent public debate in Malta has rightly highlighted the importance of long-term planning and ac-

countability. These discussions remind us that infrastructure cannot simply react to crises. As much as possible, it must anticipate demographic, economic, social, and environmental change. Malta’s scholarly community and civil society have long contributed research and recommendations on such matters. We cannot afford to ignore or downplay this growing body of evidence, nor should we turn it into political slogans.

It is also imperative to acknowledge that this challenge is not unique to Malta. Across Europe and the Mediterranean, extreme weather is exposing the vulnerabilities of infrastructure. Heatwaves have affected people’s everyday lives, strained electricity grids, disrupted transport systems, and contributed to excess mortality. At the same time, geopolitical tensions, energy security concerns, and decarbonisation policies are reshaping investment priorities. This raises an important sociological question: can electrification be socially just without equally ambitious investment in reliability, resilience, affordability, and universal access?

Environmental sociology reminds us that society and nature continuously shape one another. Infrastructure is influenced by climate,

biodiversity, geology, and coastal processes, just as it transforms landscapes and ecosystems. Equally, infrastructure emerges through institutions, policies, technologies, and social networks connecting engineers, policymakers, regulators, residents, workers, businesses, consumers, and the natural environment. Failures rarely have a single cause. Rather, they emerge through multiple interacting factors that cannot be understood in isolation.

Upgrading infrastructure is therefore easier said than done. Electricity networks, transport systems, and digital connectivity require substantial investment, long-term planning, technical expertise, social understanding, and political commitment. They also involve competing priorities, finite resources, and different understandings of acceptable risk. The objective is not to promise perfect infrastructure, but to build systems that are more sustainable, resilient, adaptable, and socially just.

This also invites reflection on Malta’s development model. Continued economic and demographic expansion inevitably places increasing demands on infrastructure and natural resources. This raises important questions about the long-term sustainability of an

economic model that resembles what environmental sociologists describe as a “treadmill” that a growing demands and natural limits. Technological innovation and ecological modernisation can improve efficiency and resilience, but whether they alone can keep pace with continually expanding demands remains an open question deserving serious public debate.

In turn, this requires us to confront questions that may be politically uncomfortable. We are all participants in an economic model that has generated prosperity and remains politically popular, yet it also places increasing demands on infrastructure and the environment. Rather than reducing these debates to political point-scoring, we should strive for a broader social pact on how to deliberate, plan, and invest in infrastructure that serves present and future generations. Such challenges extend beyond individual governments and electoral cycles. They require long-term thinking, shared responsibility, and an appreciation that infrastructure is ultimately not just about engineering, but about society itself.

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