

# **EXAMINING THE ENERGY SECURITY-EQUITY NEXUS IN NOVA SCOTIA'S TRANSITION TO ELECTRIC VEHICLES**

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## **Thesis Abstract**

This research examines the complex relationship between energy security, equity, and widespread adoption of electric vehicles (EVs), emphasizing the development of tailored indicators to assess jurisdictional progress. Using California's experience with EVs, we develop indicators that include equitable charging infrastructure distribution, affordability for diverse communities, integration of renewable energy sources, accessibility of education programs, and the impact of government fleet electrification on underserved communities. By applying these indicators to Nova Scotia, the research aims to provide a comprehensive assessment of the province's efforts, providing insights into successes and areas for improvement. The research contributes an innovative methodology for evaluating EV policy implementation, aligned with the dual goals of enhancing energy security and promoting equity in the transition to electric mobility.

## **Category**

The "Clean Tech Innovation" category is more suitable for this poster because it covers a broader range of technologies and innovations aimed at improving environmental sustainability, energy security, and the implementation of smart solutions (like smart grids which could be related to the EV charging infrastructure) that are crucial for the transition to a cleaner, more equitable energy future. This research's emphasis on policy implementation, equity, and the systemic impact of EV adoption aligns well with the innovative approaches highlighted in the Clean Tech Innovation category.