



“SECURITY PROTECTION OF POWER STATIONS IN SRI LANKA AND IT’S IMPACT ON NATIONAL SECURITY”

by

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ABSTRACT

Power plants infrastructure is very important infrastructure because electricity is related to all aspects of our life. Resources have been a cause of contention throughout human history, and energy infrastructures have frequently been targeted in attacks. Physical security is the most important because it is the first layer in the security of power plants. In Sri Lanka, electricity demand is currently met by nine thermal power stations, fifteen large hydroelectric power stations, and fifteen wind farms, with a smaller share from small hydro facilities and other renewables such as solar. This study focuses to assess the prevailing security system maintain in PowerStation and its impact on national security. It falls under the survey research category. The population in this study included all employees that render a security service at power stations in Sri Lanka. Only 103 participants agreed to participate and included senior security managers, security officers, and contracted security service providers. In this study, a semi-structured questionnaire was utilized to collect quantifiable data about Sri Lanka's power plant security protection. The final survey was carried out using a google form. The data was examined using descriptive, correlation, and ordered logit analysis through Microsoft Excel and STATA software. According to the results obtained from the correlation analysis, national security is strongly, and positively related to the independent variables; Crime Prevention through Environmental Design, Physical Barriers and Site Hardening, physical entry and access control, Access methods, Security Lighting, Video Surveillance, Security Personnel, and Security Policies and Procedures. The Study reveals that physical security methods such as Crime Prevention through Environmental Design (CPTED), Physical Barriers and Site Hardening and Access methods have an association with national security in Sri Lanka.

Key words: power plants, physical security, national security, ordered logit