

## TECHNICAL SESSION-8: INSTITUTIONS AND GOVERNANCE REFORMS

**Chair:** Prof. Dr. Asif Yasin, Institute of Commerce, BZU, Multan

**Paper Title:** Critical Examination of NTDC Electricity Demand Forecasting Techniques

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**Abstract:** The National Transmission and Dispatch Company (NTDC) has established the Indicative Generation Capacity Expansion Plan (IGCEP) as a framework for planning future electricity generation capacity. IGCEP planning relies on annual demand projections, which overlook daily and seasonal demand trends, leading to imbalanced energy supply and resource allocation inefficiencies. The NTDC's annual demand projections also tend to be over predicted, further exacerbating the issue. This paper offers an alternative approach to forecasting electricity demand that fills the gaps in the NTDC's existing model. It presents techniques for accurate projections of daily electricity sales and peak demand, ensuring the infrastructure is optimized to meet consumer demand.

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