

Critical Information Infrastructure Assurance: its Challenges and Opportunities

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This lecture will focus on critical information infrastructure (CII) and its relationship to other infrastructure. It will highlight the differences between critical infrastructure protection and critical infrastructure assurance, which includes design for resiliency. It will examine the mutual dependencies of critical national infrastructures and show how the infrastructure outage in one sector can have debilitating effects on the national economy. In this respect, it will touch on electric power, natural gas, telecommunication, transportation, and banking and finance networks to identify issues that relate to their links to the reliable operation of critical information infrastructure, and how a failure in CII may contribute to their vulnerabilities. The outline of the critical energy infrastructure (CEI) will also be discussed to show how it relates to CII, and their mutual dependence for reliable operation.

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