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## Seven years statistical analysis of the Siam photon source operation

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The Siam Photon Source, a synchrotron light source in Thailand, has undergone multiple improvements in recent years, including the installation of up to four insertion devices in the storage ring. The machine has operated at maximum capacity for a significant period of time. This study presents a statistical analysis of the machine's operation over the past seven years, including the number of beam service hours, machine downtimes, and repair times. The paper also discusses critical incidents that occurred during this period, such as faults with a booster ring bending magnet power supply, superconducting magnet cool-down problems, and issues with a cryogenic plant's liquefaction process. Furthermore, this report highlights major upgrades and improvements made over the past seven years to enhance beam quality.

### Funding Agency

### Footnotes

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Yes

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