



## Energy Audit of SCB Plaza Bangkok, Thailand



building type	Office buildings
our client	Siam Commercial Bank PCL.
our services	<ul style="list-style-type: none"><li>• ASHRAE Level I &amp; II Audit</li><li>• Energy Benchmark</li><li>• Energy breakdown</li><li>• Energy saving measures</li><li>• Non/ Low investment measures</li><li>• High investment measures</li><li>• Payback calculations</li></ul>
project data	Main Building, Plaza East, and Plaza West (total: 225,000 m <sup>2</sup> <sub>GFA</sub> )
project duration	12/2022 – 03/2023

### Roadmap for Carbon Neutral Buildings

SCB aims to achieve carbon neutrality until 2030 and has therefore contracted The Creagy Co., Ltd. to create a roadmap towards carbon neutrality. Since buildings are an important contributor to carbon emissions, EGS-plan was sub-contracted to conduct Energy Audits in the three main buildings of SCB Plaza.

EGS-plan conducted ASHRAE Level 1&2 Energy Audits to assess the current condition of the buildings regarding energy consumption (benchmark), comfort (thermal, lighting, air quality), condition of the building systems and building envelope.

Based on this first assessment, EGS-plan developed energy saving measures which comprise of the replacement of the more than 25-year-old facade and air-handling units, installation of new PICV valves at the cooling coils and new PAUs as well as the installation of PV systems at all available areas. EGS-plan calculated the energy saving potential, investment costs and payback times. Through a combination of the suggested energy saving measures the end energy consumption of SCB Plaza can be reduced by up to 50 %.

