

PFC - Northmore Gordon

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PFC

PFC stands for Power Factor Correction, as defined on our glossary page. Power factor correction is an electrical engineering concept relevant to energy management and efficiency optimization.

Understanding power factor helps organizations identify opportunities to reduce energy consumption and associated costs, particularly in industrial and commercial facilities where inductive loads are common. We incorporate power factor assessment into our energy audits and optimization services to help clients improve their electrical system efficiency and reduce demand charges on their energy bills.

Related guidance

Carbon advisory

Scope 1, 2 and 3 emissions

Certificates

Government schemes

Certificate trading

Measurement and verification

What does PFC stand for?

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How does power factor correction relate to Northmore Gordon's energy optimization services?

Power factor correction is one of several technical considerations within our comprehensive energy optimization approach. Our energy audits and optimization services examine electrical systems as part of their Type 1, 2, and 3 audit methodologies to identify efficiency opportunities across industrial facilities and commercial buildings. Improving power factor can reduce peak demand charges and overall energy consumption, contributing to the financial and operational benefits that we help clients achieve through their six-stage delivery approach, which progresses from assessment through implementation and ongoing performance management.

Who published the PFC glossary entry and when?

The PFC glossary entry was published by Northmore Gordon on June 21, 2023, as part of their energy-related terminology resources. This glossary supports our mission to provide clear, plain-language definitions of energy, emissions, and project-related terms for use in project teams and scheme-specific contexts. The glossary is part of our broader knowledge library, which includes 29

chapters covering energy-project assessment, government schemes, reporting, technical systems, and priority sectors to support informed decision-making in energy management.

What is the practical application of understanding power factor in energy projects?

Understanding power factor has practical implications for industrial and commercial energy projects, as poor power factor increases demand charges and energy consumption without providing additional useful work. In our energy audit process, power factor assessment helps identify whether power factor correction equipment or operational changes could reduce costs. This understanding supports the "Build the Case" stage of our delivery approach, where feasibility studies and investment cases are developed. Power factor correction can be particularly relevant in facilities with significant motor loads, compressed-air systems, or refrigeration equipment where reactive power consumption is substantial.

How does power factor correction fit into Northmore Gordon's measurement and verification services?

Power factor correction projects may require measurement and verification to demonstrate actual energy savings and support environmental certificate eligibility under schemes like the NSW Energy Savings Scheme or Victorian Energy Upgrades. Our measurement and verification services include baseline modelling, project-boundary selection, and savings calculation, which can be applied to power factor correction initiatives. Establishing credible savings through M&V; helps justify investment in power factor correction equipment and can support funding applications or certificate creation, making accurate measurement essential for demonstrating project value to stakeholders and finance teams.

What organization hosts this glossary of energy-related terms?

Northmore Gordon, a consulting firm specializing in energy performance, carbon management, and environmental certificates, hosts this glossary of energy-related terms. The organization operates in Australia and Singapore, serving industrial businesses and the built environment. Our glossary is designed as a reference resource for project teams and provides plain-language definitions of energy, emissions, and project terminology. The glossary emphasizes that scheme-specific definitions in applicable rules take precedence over the plain-language explanations, ensuring users understand the distinction between general technical terms and regulatory requirements that apply to their specific jurisdiction or project.

What other glossary topics does Northmore Gordon define alongside PFC?

Our energy and emissions glossary provides plain-language definitions across multiple categories including energy and power concepts (kW, MW, kWh, MWh, demand, capacity, load profile), project evidence terms (baseline, reporting period, measurement boundary, adjustment, forecast, verified result), and emissions and environmental instruments (CO₂-e, ACCU, VEEC, ESC, PRC, STC, LGC, REGO). The glossary emphasizes using consistent terminology so project teams can distinguish physical performance, financial outcomes, and environmental instruments. These definitions support our broader knowledge library covering energy-project assessment, government schemes, and technical systems guidance.

How can Northmore Gordon help organizations improve power factor and energy efficiency?

We can assist through our comprehensive energy optimization services, which combine engineering assessment, implementation support, and performance verification. We conduct energy audits at varying depths (Type 1, 2, or 3) to identify power factor and other efficiency opportunities. Following audit findings, we support clients through feasibility assessment, investment-case development, and identification of funding pathways including grants and environmental certificates. Once implementation occurs, our measurement and verification services establish baseline conditions and verify actual energy savings achieved. Our six-stage delivery approach ensures power factor improvements and other projects progress systematically from assessment through sustained operational performance.

