

E2F – Resource Efficient Design of New Facilities and Major Expansions

Canonical: <https://northmoregordon.com/grants-and-programs/singapore-e2f/>

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Funding program archive

This page preserves a dated funding-program record and links it to current project-planning guidance.

Publication date: the source publication date.

Status note: This archive does not confirm that applications are open, funds remain available or the earlier eligibility and co-funding settings still apply. Verify the current administrator page and guidelines.

What this article reported

The purpose is to encourage investors of new industrial facilities or major expansions in Singapore to integrate resource efficiency improvements into manufacturing facility development plans early in the design stage.

Eligibility criteria

The owner or operator of a new industrial facility or the existing facility to undergo major expansion must be registered in Singapore;

The new industrial facility or the existing facility to undergo major expansion must be sited in Singapore; and

The detailed design of the facility must not have commenced at the time of application.

The Consultants must be experienced and able to show good track record in carrying out design workshops of a comparable scale and scope. The capabilities of the selected Consultants must be thoroughly assessed to ensure that they have the capability to design or advise on the design of the facility concerned.

Funding amount

Up to 50% of the qualifying costs, capped at \$600,000.

What's Included

NG will create a base case energy profile for the planned project, and help you identify a range of opportunities to reduce energy consumption when in operation.

Application Form

Review project

Assess eligibility

Complete application form

Ensure application form submitted to NEA

Design workshop

Review preliminary designs and create Base Case

Develop concept energy efficiency opportunities

Set agenda for workshop

Facilitate workshop

Reporting for government

Business cases for opportunities

Calculate savings

Report for client and NEA

How to use this information now

Before relying on a grant, confirm the current round, applicant and project eligibility, eligible expenditure, co-contribution, assessment process, closing date and evidence obligations. Build the technical case so the project remains understandable with grant support shown separately.

Separate source-reported facts from forecasts, targets and commentary. For a current project, retain the official source, version, effective date, assumptions and decision record in the evidence file.

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What is the E2F grant program and why is early design involvement important?

E2F (Resource Efficient Design of New Facilities and Major Expansions) is a Singapore program administered by the National Environment Agency (NEA) that encourages investors to integrate resource efficiency improvements into manufacturing facility development plans during the early design stage. Early involvement is critical because detailed design must not have commenced at the time of application, meaning efficiency opportunities can be embedded in the facility's fundamental architecture rather than retrofitted later. This approach typically yields better technical outcomes and cost-effectiveness than addressing inefficiencies after construction begins. We create baseline energy profiles and identify improvement opportunities specifically tailored to planned projects.

What financial support does the E2F grant provide and what are the practical limits?

The E2F grant covers up to 50% of qualifying costs, with a maximum funding cap of \$600,000. This means a project with \$1.2 million in eligible costs would receive the full \$600,000 ceiling, rather than the full 50% amount. The financial structure requires careful project scoping and cost estimation to maximize available support. Applicants should distinguish between eligible design and assessment activities (typically covered) and ineligible costs. We can assist in identifying qualifying costs, developing business cases for proposed efficiency opportunities, and calculating expected savings to demonstrate value beyond the grant amount.

What specific eligibility requirements must a facility meet to qualify for E2F funding?

Eligibility requires that: the facility owner or operator is registered in Singapore; the facility is sited in Singapore; the facility is either new construction or an existing facility undergoing major expansion; and critically, the detailed design must not have commenced at application time. Additionally, consultants involved must demonstrate experience and a good track record with comparable design workshops, with their capabilities thoroughly assessed by NEA. This eligibility screen emphasizes early engagement—projects already in detailed design phase cannot proceed. We can help determine whether a proposed facility meets these criteria and advise on optimal timing for application.

How does the Design Workshop stage work and what outcomes should be expected?

The Design Workshop stage is where preliminary designs are reviewed to establish a Base Case energy profile, concept-level efficiency opportunities are developed, and a workshop agenda is created and facilitated. This stage transforms initial design concepts into specific, evaluated improvement options. We facilitate this process by reviewing preliminary designs, identifying efficiency opportunities tailored to the facility's operations, and structuring a collaborative workshop involving the design team, facility operators, and stakeholders. The workshop outputs typically include prioritized opportunities, preliminary savings estimates, and clarity on design modifications needed to implement preferred options. This stage bridges theory and practice by testing opportunities against real facility constraints and operational requirements.

What happens after the Design Workshop and how are outcomes reported to NEA?

Following the Design Workshop, the Reporting for Government stage develops detailed business cases for prioritized opportunities, calculates expected energy and cost savings, and prepares a formal report for both the client and NEA. This report documents the design process, opportunities evaluated, selected improvements, financial justification, and implementation pathway. We prepare this reporting using consistent methodology to ensure savings calculations are credible and aligned with NEA expectations. The quality of reporting directly affects funding approval and subsequent monitoring of actual performance. Clear documentation of assumptions, baseline conditions, and measurement approaches supports both project approval and accountability for claimed savings.

Why is early consultation important before committing to detailed facility design?

Early consultation is essential because E2F requires that detailed design has not commenced at application time. Once detailed design begins, the program pathway becomes unavailable, and efficiency improvements typically cost more to implement and deliver less benefit. Starting the E2F process during concept or preliminary design stages allows Northmore Gordon to identify opportunities that can be incorporated into the design brief itself—such as optimal equipment sizing, building envelope performance, or thermal layout—rather than added as afterthoughts. This timing advantage typically yields better integration, lower implementation costs, and greater confidence in achieving projected savings. Projects should engage Northmore Gordon as soon as a facility expansion or new facility is being considered.

What role do consultants play in the E2F process and what capabilities matter?

Consultants are central to E2F, as NEA requires that professionals involved demonstrate experience and capability with comparable design workshops. Consultants guide the facility owner through the design process, facilitate stakeholder workshops, identify efficiency opportunities, develop business cases, and prepare regulatory reporting. NEA's assessment of consultant capability ensures work quality and credibility of reported outcomes. We position itself as an experienced E2F consultant, bringing expertise in energy auditing, feasibility assessment, and measurement and verification for industrial facilities in Singapore. Selecting consultants with demonstrated competency and track record directly influences both the approval likelihood and the technical quality of implemented improvements.

How does E2F relate to Singapore's broader industrial energy-management obligations?

E2F operates within Singapore's Energy Conservation Act framework, administered by the National Environment Agency (NEA). While E2F focuses on efficiency during new facility or expansion design, Singapore also imposes mandatory energy-management obligations on existing industrial facilities exceeding a 54 TJ energy-use threshold across two of three calendar years. These obligations include registration, energy-manager appointment, annual reporting, and energy-efficiency opportunity assessments. A facility that participates in E2F during design may later trigger mandatory obligations once operational and reaching the energy threshold. Understanding both frameworks helps facility owners plan comprehensive energy management strategy from design through operation. We can advise on applicability of both programs and integrated planning.

What information should a facility owner prepare before approaching Northmore Gordon about E2F?

Owners should prepare: a clear facility description including location, industrial activity, planned capacity, and production processes; preliminary design stage and timeline; known major thermal loads, cooling requirements, and utilities; budget and capital constraints; and internal decision authority. The facility must be in concept or early preliminary design—detailed design should not have commenced. Providing this information allows Northmore Gordon to assess E2F eligibility, scope the Design Workshop appropriately, and estimate resource requirements and timeline. Early conversation helps clarify whether E2F is suitable and whether application should proceed immediately or wait for design progression. This aligns with our emphasis on proportionate early assessment before significant commitments.

How can Northmore Gordon assist with both E2F grant applications and subsequent facility operations?

Our engagement spans design-phase assessment through operational performance. During E2F, we create baseline energy profiles, facilitates design workshops, develops opportunity business cases, and prepares regulatory reporting to NEA. Once the facility is operational, we can support Singapore's mandatory energy-management obligations through energy audits, energy-manager guidance, annual reporting, and energy-efficiency opportunity assessments required under the Energy Conservation Act. This continuity ensures improvements designed under E2F are actually implemented, verified to perform as expected, and integrated into ongoing energy management systems. Contact Northmore Gordon via their Singapore office (+65 6690 2480) or Australian office (1300 854 561 Advisory; 1300 878 500 Certificates) to discuss E2F suitability and implementation support.