



INVESTING IN THE MODERN GRID

A one-page guide to building resilient, renewable-ready electricity networks

ASIA PACIFIC | MIDDLE EAST | AFRICA

THE INVESTMENT CHALLENGE

2,500+ GW Renewable, storage and large-load projects stalled in grid connection queues worldwide.	MORE DEMAND Electrification, industry, data centres and cooling are reshaping load growth.	MORE CHOICES Networks, storage, automation, DER and resilience compete for the same capital.	THE CORE QUESTION Which combination of investments, delivered in what sequence, creates the greatest long-term value within real constraints?
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FOUR PRACTICES FOR BETTER GRID INVESTMENT DECISIONS

01 DEFINE VALUE Translate strategy into a common, auditable value framework so reliability, resilience, affordability, renewable integration and customer outcomes can be compared consistently.	02 OPTIMISE THE PORTFOLIO Evaluate project combinations against funding, workforce, timing, regulatory and operational constraints - not simply the highest-ranked individual projects.
03 COMPARE OPTIONS Assess network, storage, grid technology, DER and hybrid solutions on the same lifecycle basis, including cost, timing, flexibility, risk and residual value.	04 PLAN FOR UNCERTAINTY Use scenarios, sensitivities and trigger points to distinguish no-regret investments from choices that should adapt as demand, costs and priorities change.



HOW IFS COPPERLEAF SUPPORTS THE PLAN

IFS Copperleaf Value
Common economic framework for strategic outcomes

IFS Copperleaf Portfolio
Optimises portfolios across real-world constraints.

IFS Copperleaf Asset
Forecasts performance, lifecycle cost and risk.

IFS Copperleaf Integrated Planning
Tests scenarios and supports continuous re-optimisation.

PUBLISHED CLIENT PROOF

5%-10%

Budget efficiency improvements across a subset of Endeavour Energy investments.
New Zealand infrastructure planning: WEL Networks client outcomes

1000

Of hours saved in portfolio-level risk analysis at Endeavour Energy.

Daily

Powerco asset data and assumptions refreshed for reproducible planning.
How Powerco and TNB are building defensible, value-based capital plans.

ONE DISCIPLINE, DIFFERENT REGIONAL PRESSURES

ANZ Sequence renewables, storage, sustainment and non-network options. Australian Energy Market Operator 2026 Integrated System Plan. Published 25 June 2026.	ASEAN Prioritise fast-growing load centres, smart grids and interconnections. Ministry of Economy Malaysia and Tenaga Nasional Berhad National Energy Transition Roadmap and TNB data centre demand context. Includes figures reported as of August 2025	NORTH ASIA Coordinate demand growth with transmission and long-lead infrastructure. Japan Ministry of Economy, Trade and Industry GX2040 Vision, Seventh Strategic Energy Plan and Watt-Bit collaboration Policy direction and electricity infrastructure coordination	GCC Optimise generation, storage, grid and cross-border interconnection together. GCC Interconnection Authority Projects Under Construction. UAE interconnection expansion and direct Oman interconnection projects.	SOUTH AFRICA Sequence transmission expansion amid funding and market restructuring. National Energy Regulator of South Africa (NERSA), reported via Green Building Africa. Congestion curtailment framework and transmission access. Framework approved April 2025; reporting current as of March 2026
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THE UTILITIES THAT LEAD THE TRANSITION WILL NOT SIMPLY INVEST MORE. THEY WILL DECIDE BETTER.

IFS Copperleaf connects strategy, asset needs, portfolio optimisation and execution so every investment can be explained, challenged and defended