



## Integrated Planning for European Utilities



### Make decisions that drive your grid strategy

Europe's energy system is under unprecedented pressure. From geopolitical disruption and supply volatility to accelerating decarbonisation targets and expanding ESG obligations, utility leaders are navigating a level of complexity that legacy planning approaches were never designed to handle.

The rapid growth of weather-dependent renewable generation, electrification of transport and heat, and intensifying climate impacts are exposing the limitations of ageing grid infrastructure. At the same time, utilities must invest at pace in grid modernisation, storage, and new fuels while managing affordability, regulatory scrutiny, and capacity constraints across transmission and distribution networks.

Across Europe, utility networks are being pushed to their limits. Operational agility, resilience, and regulatory assurance are no longer differentiators, they are prerequisites.

### The need for adaptive, integrated planning

To succeed in this environment, European utilities must move beyond fragmented, siloed planning. Long-term energy transition strategies must be directly connected to near-term regulatory, operational, and investment decisions within transmission, distribution, and generation where applicable.

IFS Copperleaf Integrated Planning enables utilities to align strategy, capital investment, and execution through a single, value-based planning approach. It supports utilities in making transparent, defensible investment decisions that balance reliability, resilience, affordability, and sustainability, while responding quickly to regulatory and market change.

By evaluating investments based on value, cost, and risk, IFS Copperleaf helps utilities prioritise

initiatives that strengthen network performance, relieve capacity constraints, integrate renewable and distributed energy resources, and deliver on EU climate and ESG commitments. Every euro invested is explicitly linked to strategic outcomes.

### Planning for Europe's energy transition

As Europe accelerates towards a decarbonised energy system, integrating renewable generation at scale has become a central challenge. Wind, solar, and storage assets are often located far from demand centres, placing new demands on transmission capacity and cross-border coordination.

Meeting EU climate targets will require significant expansion and reinforcement of grid infrastructure, alongside smarter use of existing assets. Integrated Planning provides the discipline needed to prioritise these investments—ensuring capital is deployed where it delivers the greatest system-wide value, while maintaining security of supply and affordability for customers.



**We piloted integrated planning on the order of about \$100 million dollars. And we've seen that with that portfolio of work, we were able to get a 20% unit cost efficiency. Those are dollars that we can reinvest right back in our system for our customers to address other needs."**

**Wen Tu**

Senior Director of Integrated Planning  
PG&E

## The benefits of IFS Copperleaf Integrated Planning



### Executable plans

The output of IFS Copperleaf's IP solution is executable investment plans that tell you exactly where to invest in order to realize your strategy.



### Increased resilience

IP enhances the grid's ability to withstand and recover from disruptions, ensuring reliable energy supply.



### Improved efficiency

By considering the entire energy system, IP helps identify and implement the most efficient solutions for grid management.



### Cost savings

By optimizing investments and operations, IP can lead to better rate case approvals and reduced costs for utilities and consumers



### Enhanced sustainability

IP supports the integration of renewable energy sources, reducing the grid's environmental impact.

## The IFS Copperleaf difference

### Network optimisation under capacity constraints

- Optimise investments to expand grid flexibility, automation, and hosting capacity for DERs, EVs, electrified heat, and data centres
- Reduce costly delays to industrial, commercial, and community growth caused by grid bottlenecks

### Energy transition and regulatory alignment

- Ensure every investment supports EU decarbonisation, renewable integration, and ESG objectives
- Transparently demonstrate how capital plans deliver against European and national climate mandates

### Agility in a shifting regulatory landscape

- Rapidly reforecast plans to account for new EU directives and national regulatory changes
- Use scenario analysis to test the impact of electrification growth, renewable targets, or funding adjustments

### Resilience, reliability, and security of supply

- Prioritise investments that strengthen network reliability, climate resilience, and system flexibility
- Evaluate options such as battery storage, reinforcement, and non-wire alternatives
- Manage risk across extreme weather, cybersecurity, supply chain constraints, and asset condition

### Stakeholder confidence and transparency

- Engage boards, regulators, policymakers, and communities with clear, data-driven investment plans
- Provide auditable, defensible justifications for funding requests and regulatory submissions

### **From strategy to execution, without silos**

IFS Copperleaf Integrated Planning sequences and optimises investment decisions across complex, uncertain environments. It enables utilities to connect long-term energy transition strategies with short- and mid-term operational and regulatory priorities.

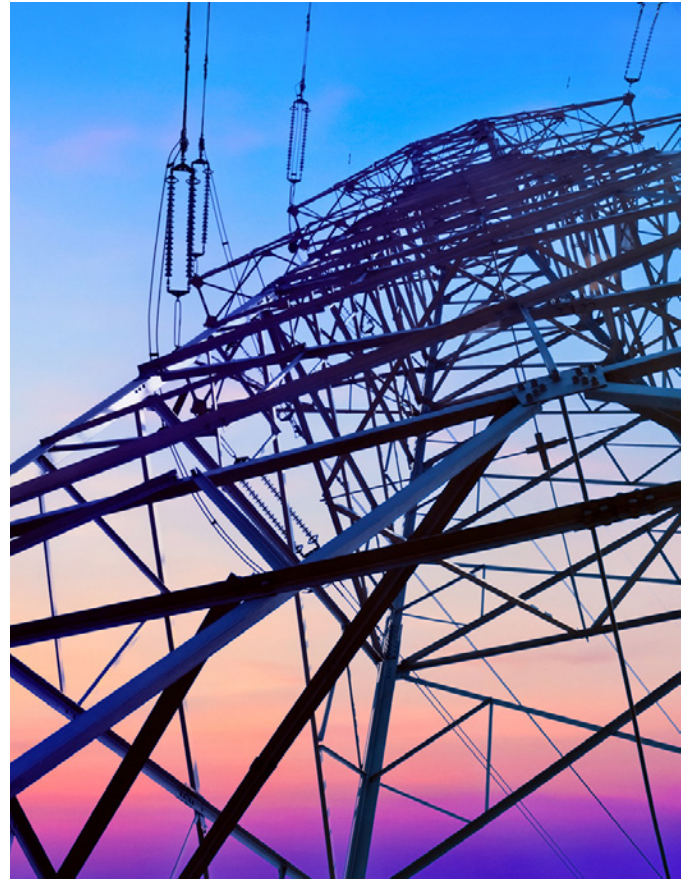
Translate long-term objectives—such as renewable integration, grid expansion, and cost efficiency—into executable capital plans that reflect regulatory requirements, market conditions, and stakeholder expectations.

Integrate with existing technical network planning tools and connect operational, commercial, and financial data. Break down organisational silos so decisions made in one domain—generation, transmission, or distribution—deliver value across the entire system.

### **Get ahead of an already changing energy future**

Much of Europe's existing grid infrastructure was not designed for decentralised generation, electrified demand, or the pace of change now required. While new generation capacity is being developed rapidly, delivering energy reliably, affordably, and at scale is becoming increasingly challenging. Utilities that succeed will be those that can balance competing demands—sustainability, affordability, resilience, and regulatory compliance—through integrated, value-based planning.

IFS Copperleaf Integrated Planning provides the structure and transparency utilities need to make these trade-offs with confidence, supporting better outcomes for customers, regulators, and the energy system as a whole.



IFS develops and delivers cloud enterprise software for companies around the world who manufacture and distribute goods, build and maintain assets, and manage service-focused operations. The industry expertise of our people and of our growing ecosystem, together with a commitment to deliver value at every single step, has made IFS a recognized leader and the most recommended supplier in our sector.

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