


AI POWERS ENERGY TRANSITION NOW

OPTIMIZE RENEWABLE
ENERGY DISTRIBUTION
IN ZONE 3

45% 
RENEWABLE ENERGY
INTEGRATION

80%
OF SYSTEMS
OPTIMIZED WITH AI

Infosys®
Navigate your next

GUIDING THE WAY TO WHAT'S NEXT



Your Digital Energy Orchestrator

Infosys is committed to building a sustainable, inclusive future, both within our own operations and for the enterprises we serve. Carbon neutral since 2020, we bring this experience to our role as a Digital Energy Orchestrator, helping organizations navigate complex energy transitions with the power of AI, cloud, and digital.



Infosys Topaz

Infosys Topaz, our AI-first suite of services, solutions, and platforms, sits at the heart of this transformation. With 12,000+ AI assets and 150+ pre-trained models, Infosys Topaz helps enterprises create value faster, build smarter systems, and unlock efficiencies across energy ecosystems, safely and ethically.



Energy Transition Practice

Our dedicated Energy Transition practice empowers global enterprises to decarbonize operations, modernize grids, and embrace renewables. From low-carbon initiatives and smart mobility to circular economy solutions, we co-create with clients, partners and academia to turn net-zero goals into action.

AI POWERS THE KEY PILLARS OF ENERGY TRANSITION

AI is reshaping how energy is generated, moved, and consumed. At Infosys, we focus our solutions around six core areas, pillars that guide how we help enterprises advance their energy transition goals.



Next-Gen Grid

AI enhances grid orchestration



Sustainable Transportation

AI turns the wheels of green mobility



Carbon Management

AI reduces energy intensity



Renewables and Storage

AI makes renewables more reliable



Net Zero and Sustainability

AI paves the path to neutrality



Smart Energy Solutions

AI amplifies energy efficiency

AI ENHANCES GRID ORCHESTRATION

LOAD
BALANCING
EFFICIENCY
15%
IMPROVEMENT

EV CHARGING
OPTIMIZATION

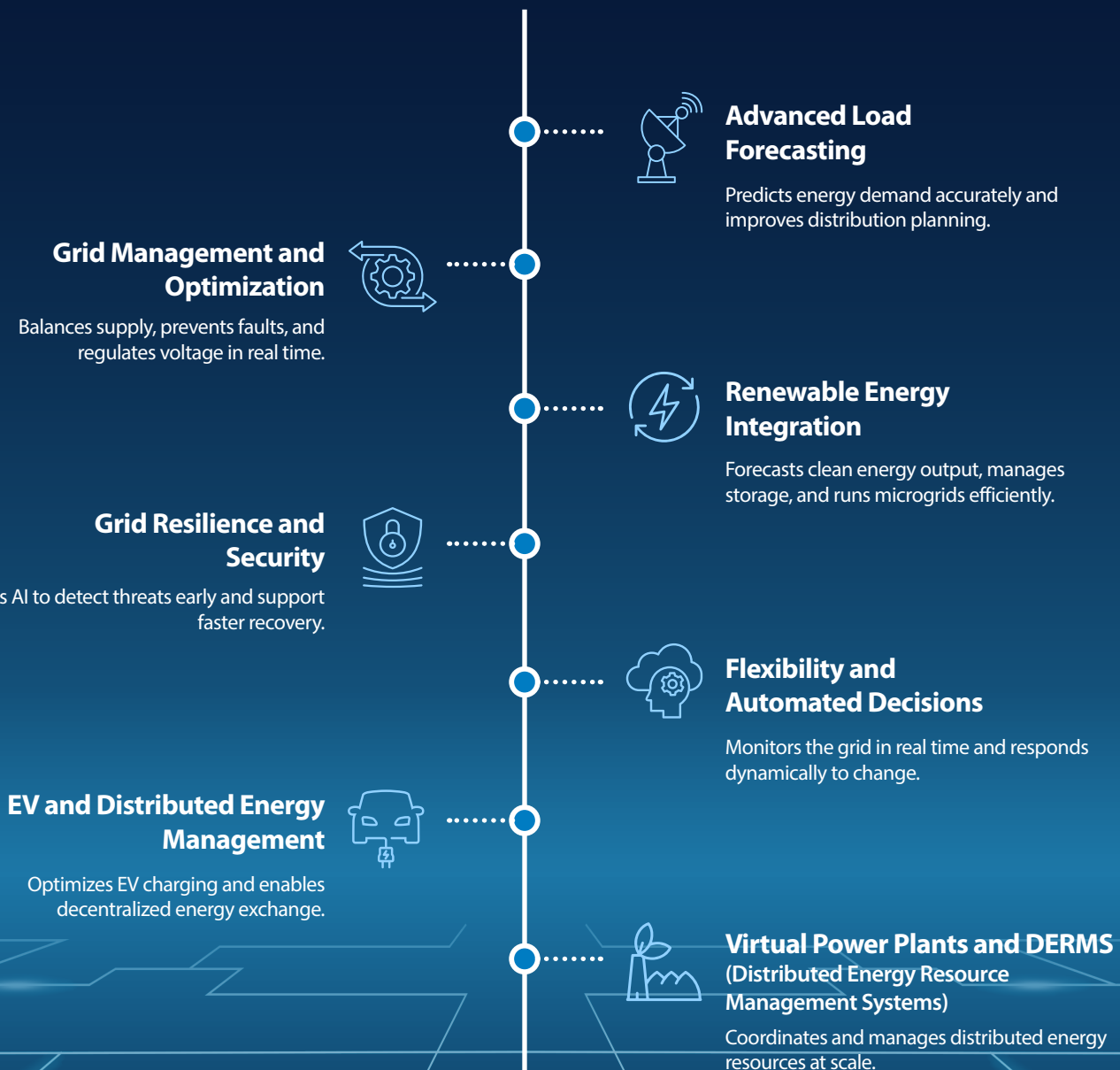
30%
REDUCTION IN PEAK LOAD

DISTRIBUTE
EXCESS ENERGY
FROM GRID 4
TO GRID 2

NEXT-GEN GRID

The next-generation grid, also known as a smart grid, is transforming the way electricity is produced, distributed, and consumed. With AI at the core, it brings smarter operations, builds flexibility into the grid, enhances reliability, and maintains stability.

From forecasting to fault response, here's how AI keeps the grid ahead of the curve



AI TURNS THE WHEELS OF GREEN MOBILITY



15-20%
FUEL REDUCTION

1,000 KG
CO₂ PER DAY



HYDROGEN H₂

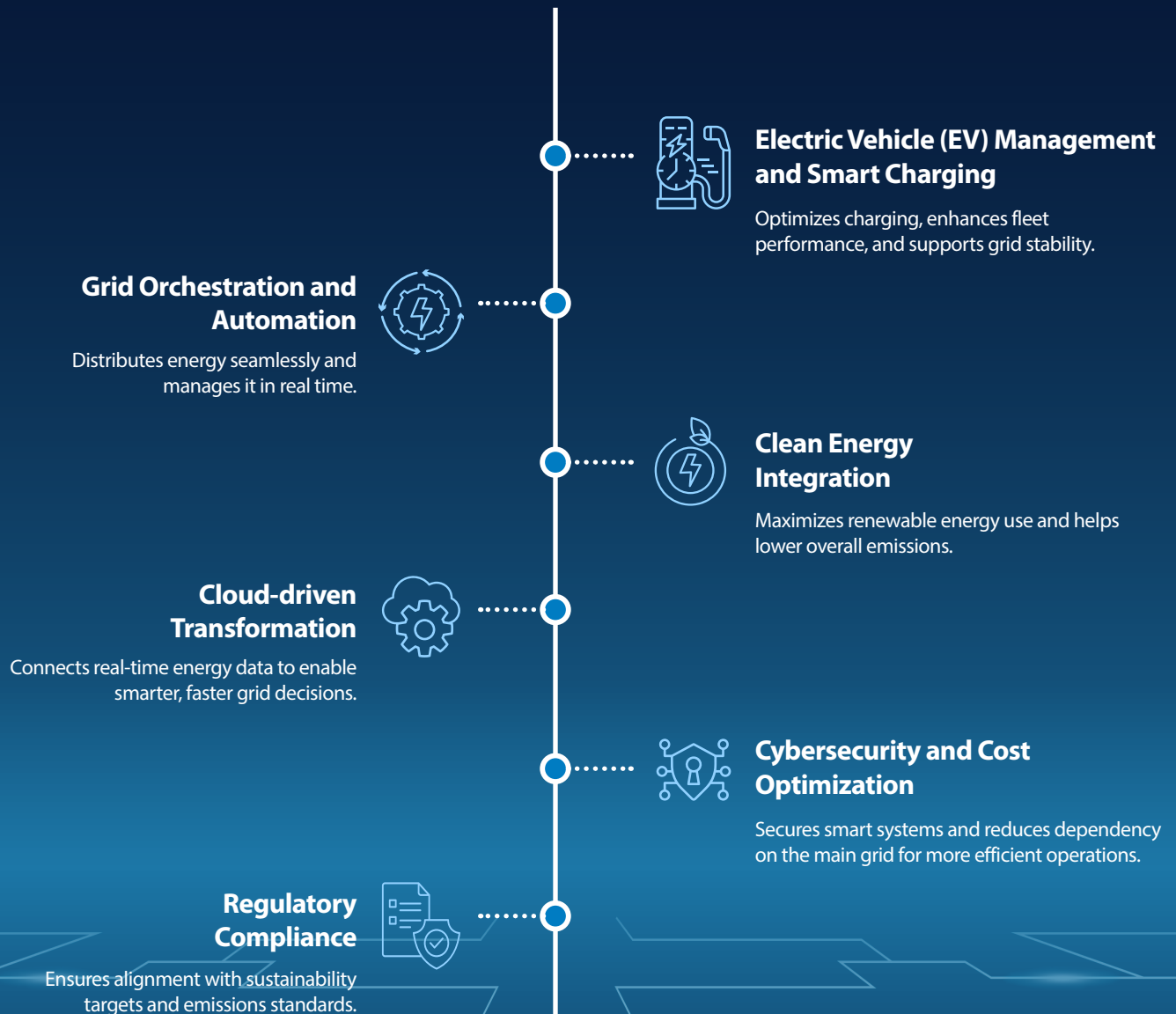


PRESSURE MONITORING
SYSTEM REQUIRES
CALIBRATION

SUSTAINABLE TRANSPORTATION

AI is helping transform transportation into a cleaner, greener system. By making mobility smarter and more efficient, AI supports the shift to sustainable transport while reducing environmental impact.

From EVs to emissions, here's how AI is shaping the journey to sustainable transport



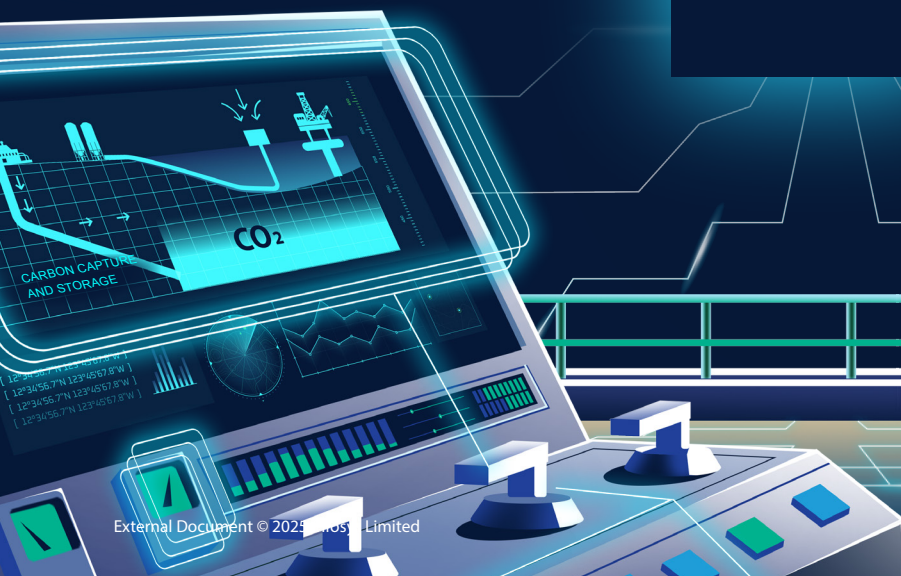
AI REDUCES ENERGY INTENSITY

FUEL USE
REDUCTION
25-30%

CAPTURE
VOLUME

5.3 GIGA TONS OF CO₂

ALERT:
POTENTIAL WEAR ON



CARBON MANAGEMENT

AI plays a key role in helping businesses, cities, and individuals better manage and reduce their carbon impact. From real-time monitoring to smarter decision-making, AI makes carbon management more precise, proactive, and impactful, helping pave the way to a low-carbon future.

From monitoring to mitigation, here's how AI powers every step of carbon management

Methane Management and Mitigation Strategies

Uses AI to monitor, detect, and reduce methane emissions effectively.



GHG Inventory Management

Automates data capture and analysis for carbon-intensive industries.



Carbon Emission Monitoring

Automates emissions tracking to meet compliance and reporting needs.



Carbon Trading and Market Analysis

Forecasts credit trends, manages risk, and optimizes carbon portfolios.



Carbon Capture and Storage (CCS) Optimization

Identifies ideal sites, streamlines capture processes, and detects leaks early.



Flare Management and Optimization

Tracks flaring activity in real time and minimizes unnecessary emissions.



Predictive Analytics for Carbon Footprint Reduction

Forecasts energy use, improves efficiency, and reduces carbon output.



Supply Chain Optimization

Lowers emissions through smarter routing, logistics, and load planning.



Reporting and Regulatory Compliance

Ensures accurate emissions reporting and alignment with global standards.



AI MAKES RENEWABLES MORE RELIABLE



RENEWABLES AND STORAGE

AI helps unlock the full potential of renewable energy and storage, making generation smarter, storage more efficient, and the grid more stable. From forecasting to energy trading, it is helping renewable energy go further, delivering cleaner power, smarter storage, and a more reliable grid.

From sun and wind power to smart storage, here's how AI connects it all

Forecasting and Predictive Analytics

Uses AI to anticipate consumption and improve energy distribution.



Predictive Maintenance

Reduces downtime and enhances asset life with AI-led issue detection.



AI-powered Energy Trading

Improves market decisions for cost savings and sustainable outcomes.



AI-driven Optimization

Boosts solar, wind, and microgrid efficiency with seamless renewable integration.



Energy Storage and Battery Optimization

Maximizes availability and efficiency with smart charge-discharge cycles.



Scalable Energy Management Solutions

Adapts to diverse projects with flexible, scalable deployment.



AI PAVES THE PATH TO NEUTRALITY



NET ZERO AND SUSTAINABILITY

Reaching Net Zero and building a sustainable future requires bold thinking and smarter systems. AI brings powerful tools to help optimize energy, reduce emissions, and support greener choices across industries, cities, and communities.

From insight to action, here's how AI brings sustainability to life



AI AMPLIFIES ENERGY EFFICIENCY

20%

CO₂E REDUCTION

REDUCE
TEMPERATURE BY
2°C
FOR 5% ENERGY
SAVINGS



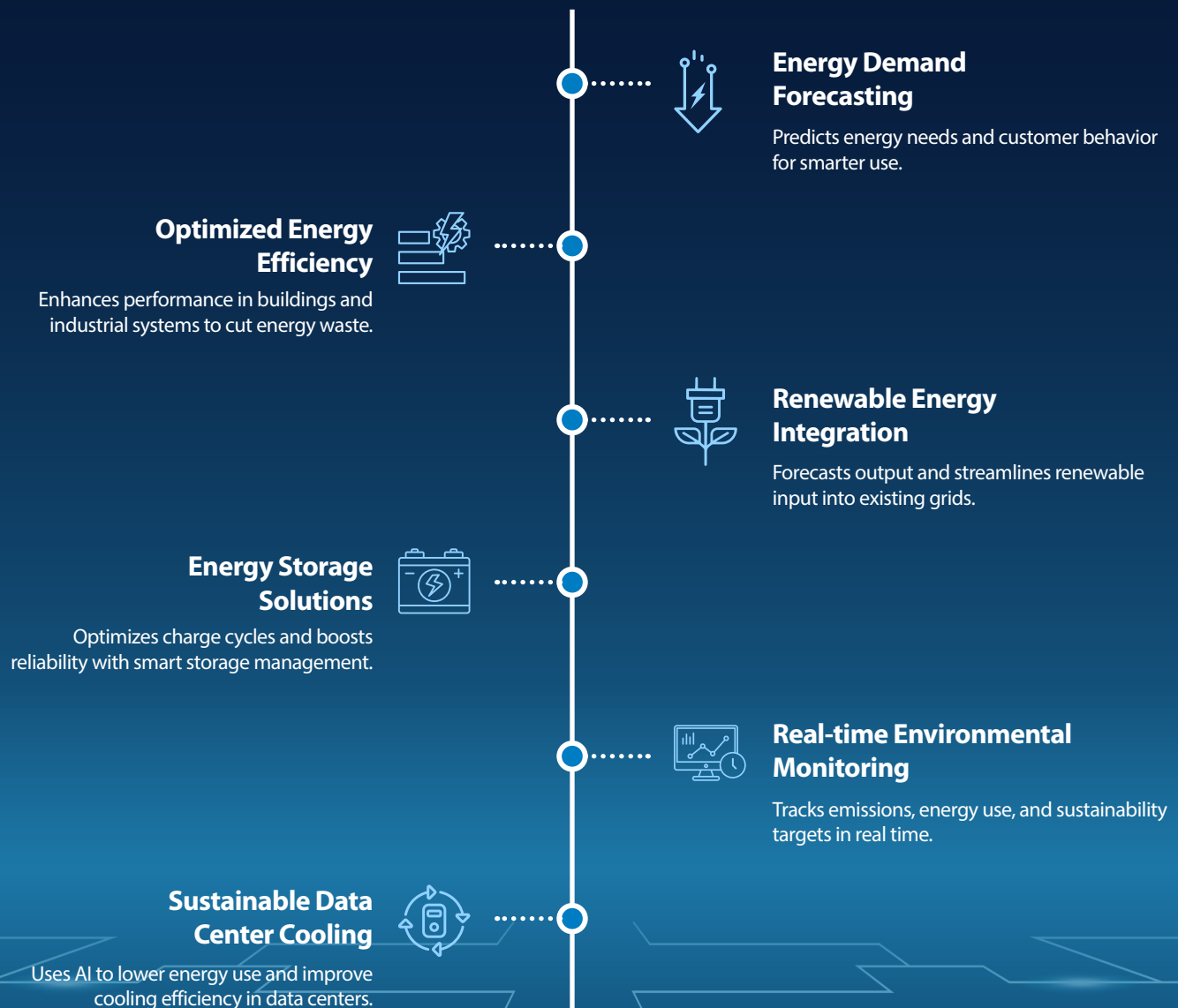
15-20%

ENERGY SAVINGS

SMART ENERGY SOLUTIONS

AI helps modernize the way energy is produced, distributed, and consumed. By making systems smarter and more responsive, it boosts efficiency, reduces waste, and supports more sustainable energy practices across homes, businesses, and industries.

From generation to consumption, here's how AI makes every step smarter



LET'S MAKE THE SHIFT, TOGETHER

For more information, scan



#EnergyTransitionNow

For more information, contact askus@infosys.com

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Navigate your next

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