

# EXAFLUENCE

Data Driven Influence

ISO 27001: 2022 Certified

## ExfDigital Studio

Agentic AI for the Autonomous Grid Operating System

Predictive Digital Twins

Real-time Outage Intelligence

Revenue Assurance

20–30%

Reduction in unplanned outages

60%

Faster data integration

3–5%

Annual revenue recovered

### Modern Utility Data Fabric

Utilities have more data than ever (AMI, SCADA, IoT), yet SAIDI/SAIFI metrics remain stagnant. Exafluence moves beyond legacy analytics into Agentic AI—autonomous software agents capable of diagnosing faults, restoring service, and protecting revenue in real-time.

#### What ExfDigital Studio Delivers

- 360 degree connectivity to unlock “Dark Data” across IT/OT systems
- High-fidelity operational intelligence with measurable ROI
- Low-code workflows for domain engineers—not just data scientists

#### Why Now

- Decentralization and DER growth increase grid complexity
- Human-in-the-loop delays extend outage restoration time
- Asset aging raises risk of cascading failures

## Key Industry Challenges vs Digital Solutions

### 1 Aging infrastructure & asset failure

**Predictive Digital Twins** continuously monitor health scores of transformers and substations.

20–30% reduction in unplanned outages. Extend remaining useful life (RUL).

### 2 Data silos & integration complexity

**ExfHarmonize** unifies SCADA, GIS, and AMI data into a single source of truth.

60% faster integration. Eliminates manual cleansing and accelerates decisions.

### 3 Grid modernization (DERs/Renewables)

**ExfSmartAccess (GenAI)** lets field teams query manuals and historical logs in natural language.

40% improvement in first-time fix rates with expert-level guidance.

### 4 Workforce knowledge gap

**ExfSmartAccess (GenAI)** supports junior and senior technicians and supervisors with instant context.

40% improvement in first-time fix rates across field operations.



## Solution Spotlight for T&D

ExfDigital Studio isn't just a dashboard; it's an orchestration layer for your utility. With Agentic AI, we move beyond telling you what happened to having AI agents proactively suggest and execute optimizations.



### Smart Grid Monitoring & Anomaly Detection

AI agents establish a behavioral baseline and detect voltage fluctuations, equipment overheating, and gas pressure drops.

RoI: Reduce catastrophic equipment failure by **25%**.



### Intelligent Outage Management (OMS)

Integrate AMI with predictive AI to verify outages instantly, predict probable cause, and automate customer updates.

RoI: Improve CAIDI scores by up to **15%**.



### Advanced Distribution Management (ADMS)

Simulate "What-If" scenarios for load shedding and peak shaving to balance load in seconds, not minutes.

RoI: Up to **10%** gain in overall grid energy efficiency.



### FLISR: Fault Location, Isolation, Restoration

Pinpoint faults within meters and autonomously suggest switching sequences for rapid self-healing.

RoI: Reduce SAIDI by **20–30%**.



### Revenue Assurance & Asset Security

Detect power theft via transformer-level comparisons and trigger GPS-linked anomaly alerts for asset pilferage.

RoI: Recover **3–5%** of annual revenue.

## ExfDigital Studio – Clear, measurable, actionable RoI

### "Transforming Utility Economics"

We deliver more than technology; we deliver fiscal outcomes:

#### OpEx Savings

Automate 70% of routine data monitoring tasks.

#### CapEx Optimization

Defer expensive replacements through precision maintenance.

#### Regulatory Compliance

Automated reporting for ESG and safety audits to reduce risk.

## Why choose Exafluence for T&D?

Key Features	Traditional Analytics	ExfDigital Studio (Agentic AI)
<b>Response Type</b>	Reactive (reports what happened)	Proactive (predicts and acts)
<b>Data Silos</b>	Manual integration	Automated Harmonization (ExfHarmonize)
<b>Time-to-Value</b>	12–18 months	Weeks (pre-built feature blocks)
<b>Architecture</b>	Heavy customization	Low-code / No-code for engineers