

SECTOR PROFILE

SUSTAINABLE ENERGY & SMART UTILITIES

SMARTER RESOURCES.
MORE RESILIENT INFRASTRUCTURE.

WE ARCHITECT | WE INTEGRATE | WE DELIVER

SECTOR VISION

Smarter resources. More resilient infrastructure.

ITC develops, architects and manages integrated solutions for this sector—bringing specialist technologies together within one coordinated project framework.

ONE REQUIREMENT. ONE ARCHITECTURE.
ONE COORDINATED SOLUTION.



SUSTAINABLE ENERGY & SMART UTILITIES

Every resource, connected.

LEAD SOLUTION PARTNER

ITC leads the solution

01

DEVELOP

Requirements & outcomes

02

ARCHITECT

Solution & interfaces

03

INTEGRATE

Systems & specialists

04

DELIVER

Implementation & commissioning

05

EVOLVE

Optimization & expansion

SECTOR CHALLENGES

Complex environments need integrated thinking

01
Fragmented systems

02
Operational complexity

03
Data silos

04
Cyber & resilience risk

05
Legacy integration

06
Lifecycle cost

CORE CAPABILITIES

Sustainable Energy & Smart Utilities — solution domains

01
Smart grid & distribution

02
Advanced metering

03
Renewable integration

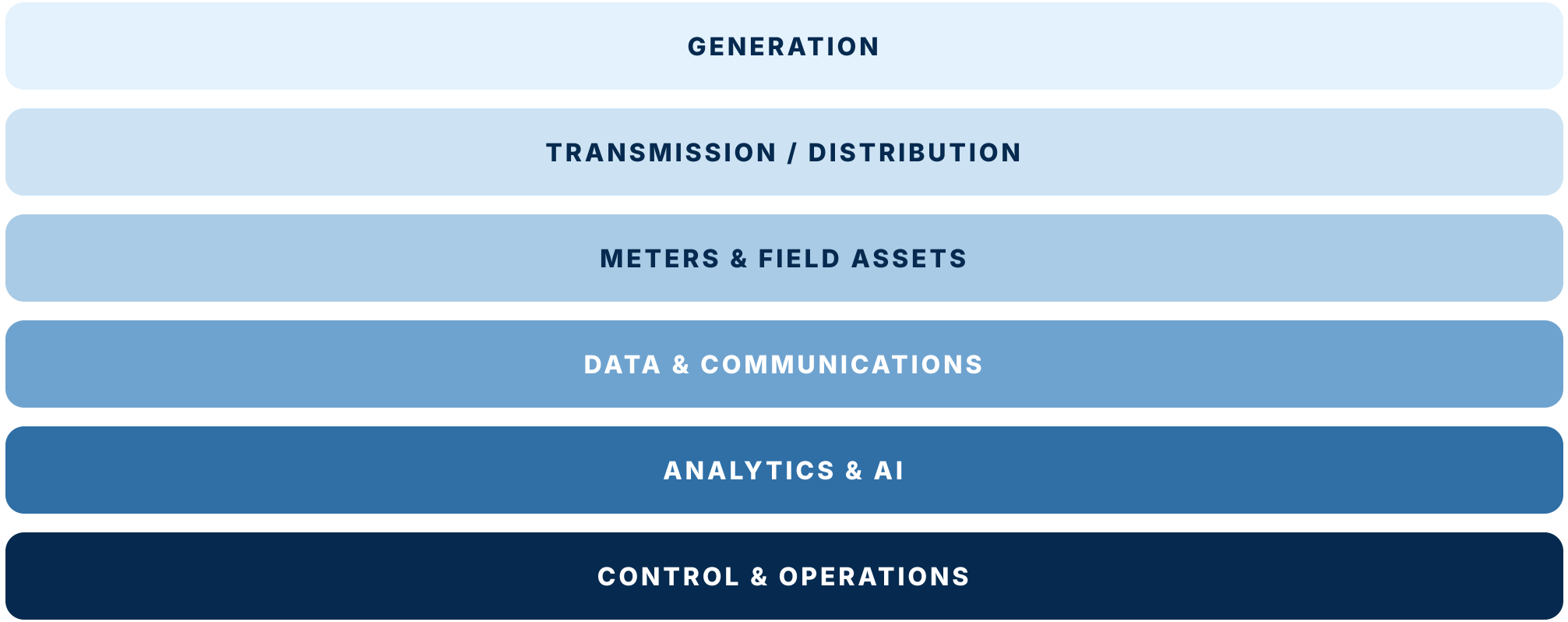
04
Utility control centers

05
Asset intelligence

06
Energy analytics

REFERENCE ARCHITECTURE

Architecture before products



PRIORITY USE CASES

Start with outcomes, not technology

01
Smart metering

02
Grid visibility

03
Renewable forecasting

04
Loss reduction

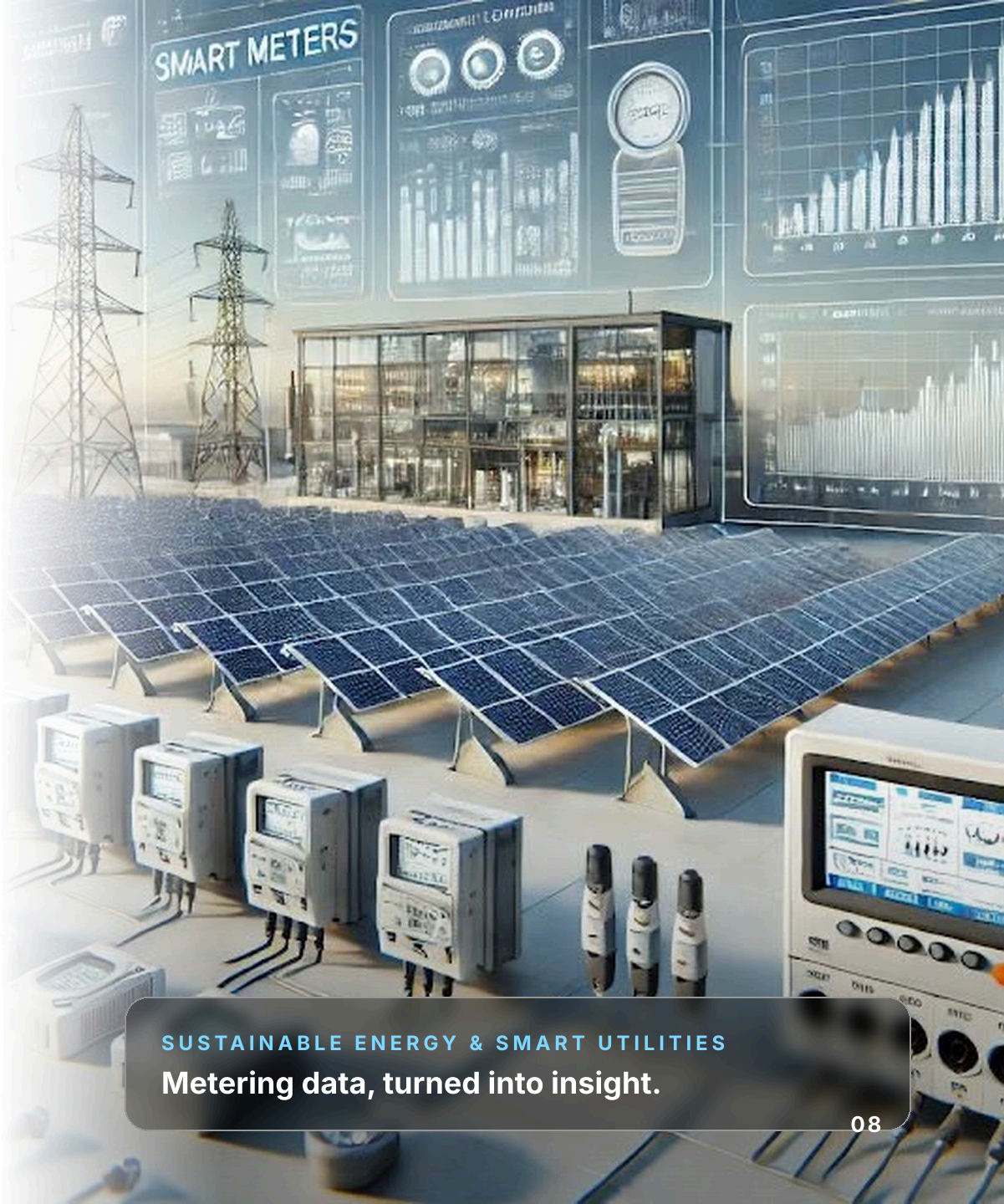
05
Predictive maintenance

06
Demand & energy optimization

DATA & AI

Turn trusted data into operational intelligence

- Unified and governed data foundation
- Role-based dashboards and decision support
- Predictive analytics for operational planning
- AI assistants and automation where appropriate
- Human oversight, permissions and auditability
- Secure integration with authorized source systems



SUSTAINABLE ENERGY & SMART UTILITIES

Metering data, turned into insight.

CYBERSECURITY & RESILIENCE

Security designed into the architecture

01
Identity & access

02
Network segmentation

03
Data protection

04
Monitoring & SOC

05
Backup & recovery

06
Incident response

INTEGRATED OPERATIONS

One operational picture across multiple systems

- Cross-domain situational awareness
- Real-time alarms and events
- Operational KPI monitoring
- Incident and escalation workflows
- Resource coordination
- Executive decision support



SUSTAINABLE ENERGY & SMART UTILITIES

Water and energy, managed as one.

INTEGRATION FRAMEWORK

Connect systems without creating another silo

01
Applications

02
Data platforms

03
AI & analytics

04
IoT / field systems

05
Infrastructure

06
Command & operations

INTEROPERABILITY

Design interfaces deliberately

01
Architecture first

02
Open / appropriate standards

03
API-led integration

04
Data ownership

05
End-to-end testing

06
Controlled change

DELIVERY FRAMEWORK

From concept to operational readiness

01

DISCOVERY

Requirements & baseline

02

ARCHITECTURE

Concept & interfaces

03

DESIGN

Detailed design & packages

04

INTEGRATION

Configure & test

05

COMMISSION

Train & hand over

06

EVOLVE

Optimize & expand

PROGRAM GOVERNANCE

One coordinated project framework

01
Client governance

02
ITC leadership

03
Technology specialists

04
Local delivery

05
QA / QC

06
Documentation & handover

DELIVERY ECOSYSTEM

Global technology. Local delivery.



IMPLEMENTATION ROADMAP

Transform in controlled stages

01
DISCOVER

02
ARCHITECT

03
DESIGN

04
BUILD & INTEGRATE

05
COMMISSION

06
OPTIMIZE

OUTCOME FRAMEWORK

Measure what matters

01

Service quality

02

Operational efficiency

03

Safety & resilience

04

Data visibility

05

Lifecycle performance

06

User experience

WHY ITC

Technology-independent. Solution-led.

01

One Lead Solution Partner

02

Architecture Before Products

03

Integrated by Design

04

Technology-Independent

05

Global + Local

06

Built to Evolve

EXPERIENCE BEHIND THE SOLUTION

Transparent project-reference labeling

ITC PROJECT

Use only where ITC had a direct contracted role.

TECHNOLOGY ECOSYSTEM REFERENCE

Use for relevant specialist-partner references, clearly attributed.

LET'S TALK

DISCUSS YOUR SUSTAINABLE ENERGY & SMART UTILITIES PROJECT WITH ITC

From requirement to architecture, integration, delivery and future evolution.

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WE INTEGRATE.
WE DELIVER.