

Custom Solutions

INDUSTRIAL AUTONOMY

WITH AI & ML



Renewable Energy Solutions Portfolio



Renewable Energy

Services

AIChatbot

Processing

Development

Natural Language

IoT-Enhanced Renewable Asset Predictive Maintenance

Grid-Scale Energy Storage Optimization System

Solutions



Smart Renewable Energy Forecasting Platform

03

01

02

Predictive Modelling

04

Computer Vision

05

AI Development Services

06

Web Development

07

Mobile App Development

08

Chat GPT Integrations



AI-Driven
Renewable
Energy Siting
and Permitting
Tool



Autonomous Microgrid Energy Management System



Smart Circular Economy for Component Recycling



Digital Twin for Integrated Renewable Plant Management



IoT-Based
Community
Engagement and
Impact
Monitoring



AI-Guided Clean Energy Workforce Management Platform



Smart Grid
Integration and
Curtailment
Avoidance
System



Intelligent
Energy Trading
and Demand
Response
Platform

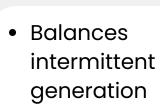


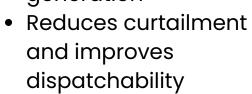
IoT-Driven
Lifecycle GHG
and
Sustainability
Reporting
System



Key Benefits

- Reduces downtime and repair costs
- Extends asset life cycles
- Increases availability of clean energy





• Supports grid frequency and voltage stability

- Improves generation scheduling
- Reduces forecasting errors and penalties
- Enhances energy trading strategies



- Reduces project delays and permitting rejections
- Increases community acceptance
- Optimizes land use and development cost



- Enhances energy access and resilience
- Minimizes dependency on fossil backups
- Ideal for remote, disaster-prone, or rural areas



- Reduces waste and landfill use
- Captures value from recycled materials
- Supports ESG goals and circular economy models



- Optimizes performance and investment decisions
- Enables predictive risk management
- Reduces CAPEX/OPEX through scenariobased planning



- Builds social license to operate
- Reduces legal disputes and project opposition
- Demonstrates corporate responsibility



- Fills talent shortages
- Reduces training overheads
- Ensures consistent workforce quality



- Improves renewable grid integration
- Maximizes energy utilization
- Reduces revenue loss from overgeneration



- Boosts participation and savings
- Enhances grid flexibility
- Generates new revenue streams



- Simplifies ESG and carbon compliance
- Builds investor confidence
- Aligns operations with net-zero goals

