READi

Smart Construction Machinery
Fuel-Saving Solution
Power Hybrid System

HOMEPAGE QR



READi
Robust Machine

Corporate Brochure

READi

Robust Machine

Energy Efficiency Solution

READi X

레디 엑스



A high-efficiency technology that recovers and recycles hydraulic energy. Reduces energy loss and enhances operational efficiency.

READi EX

레디 이엑스



A retrofit solution that electrifies existing diesel-powered equipment. Enhances efficiency and operational economy.

레디로버스트머신 주식회사 READi ROBUST MACHINE CO., LTD.
HOMEPAGE www.readi.co.kr
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READi

COMPANY INTRODUCTION

The World's Only Heavy Equipment Energy Solution Company, READi

READi is the world's only heavy equipment energy solution company that provides intelligent solutions by integrating four core technologies — Robotics, Energy Conversion & Electronics, Automation, and Diagnostics — based on hydraulic energy recovery technology.

READi goes beyond simply improving equipment efficiency.

We innovate the way heavy equipment works, the structure of energy consumption, and the operation of industrial sites themselves. Centered on our hydraulic hybrid technology, recognized by the Korea Engineering Award, we provide data-driven heavy equipment energy solutions integrated with IoT-based operation monitoring, automated control systems, and AI-powered predictive diagnostic technologies.

READi's products and services include the following:

Energy Recovery Hybrid Excavator
Power Hybrid Excavator

Hydraulic Hybrid System Kit
Retrofit Kit for Existing Equipment READi X

High-Efficiency Electric Excavator
READi EX

IoT & Predictive Diagnostics-Based Operation Management Solution Aiming for 100% Site Uptime
Zero Downtime

READi is a company that diagnoses every challenge in heavy equipment and industrial sites through data and solves them with technology.

LOCATION



Head Office

3F Room 306, Busan Knowledge Industry Center,
2 Sinseon-ro, Nam-gu, Busan, Republic of Korea
TEL | +82-55-343-7774 FAX | +82-55-343-4777

Gimhae Factory No.1

I43 Customer Satisfaction Factory
42, Gimhae-daero 1031beon-gil, Hallim-myeon, Gimhae-si,
Gyeongsangnam-do, Republic of Korea

Gimhae Factory No.2

P31 Head Factory
38, Gimhae-daero 1031beon-gil, Hallim-myeon, Gimhae-si,
Gyeongsangnam-do, Republic of Korea

Japan Office

18F, Nagoya International Center Bldg.,
47-1, 1-Chome, Nagono, Nakamura-ku, Nagoya-shi,
Aichi 450-0001, Japan

CERTIFICATIONS & ACHIEVEMENTS

[(JP)Japanese Patent] Energy Recovery Device (ENERGY RECOVERY DEVICE)	Multiple Korean Patents in Hydraulic Technology
	

INNOVATION STORY

Aichi Prefecture Startup Story



Featured in The Chosun Ilbo, Korea



READiX

POWER HYBRID SYSTEM



Specifications

1,500 x 800 x 800 mm

Weight

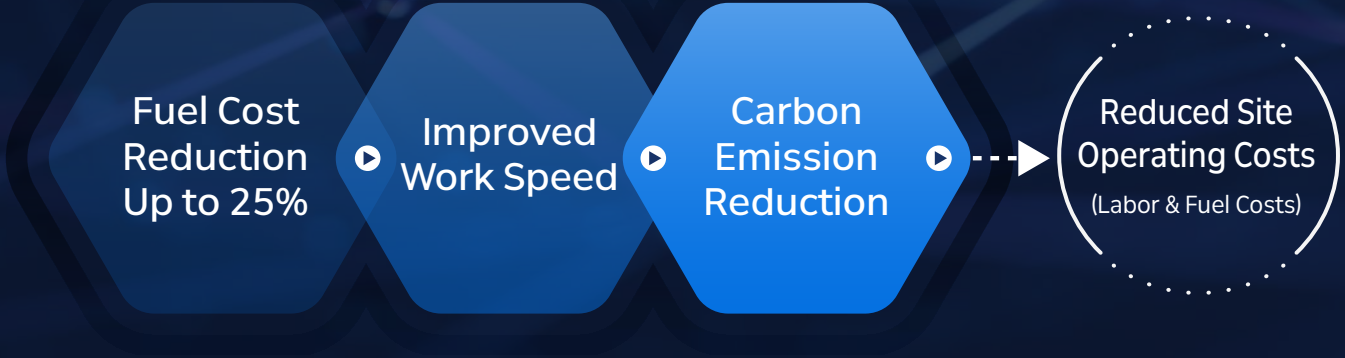
230 kg

Communication System

Bluetooth

READiX, the next-generation energy-saving technology, recovers boom energy, where the greatest amount of energy is lost during excavator operation. The recovered energy is reused as a power source, improving fuel efficiency.

For a 40-ton excavator, fuel costs exceeding KRW 100 million per year can be reduced by up to 25%. In addition, reduced diesel consumption during the same operation helps lower carbon emissions, delivering eco-friendly benefits as well.



ENGINE ASSISTANCE

ECO MODE

| SAVE ENERGY AND PROTECT ENGINE!

Eco Mode recovers energy that is normally discharged into the hydraulic tank during boom lowering operations. The recovered energy drives the hydraulic motor to assist the engine, reducing engine load and maximizing fuel efficiency.

01	02	03	04
Potential energy	Hydraulic energy	Kinetic energy (Rotation)	Supporting the Engine

POWER MODE (BOOSTER MODE)

| SAVE TIME AND IMPROVE EFFICIENCY!

Speed Increased by Up to 30%

Power Mode recovers energy that is normally discharged into the hydraulic tank during boom lowering operations. The recovered energy is stored and additionally supplied during boom lifting operations, enabling the equipment to operate more powerfully and quickly.

NORMAL MODE

| FUNCTION BYPASS CONFIGURATION

Normal Mode allows simple switching during READiX operation in the event of equipment errors or maintenance. It supports uninterrupted operation in any environment.



READi EX

▸ **Standard Working Radius** 35–40 m (Max. 60–70 m)



SAFETY DEVICE
안전장치/安全装置

MAXIMUM REACH POWER CUT
최대 도달 범위 제어/最大到達範囲制御

When the equipment reaches the maximum working radius, the power is automatically shut off to ensure safety.

Compared to Diesel Fuel Cost Reduction **40~60%**

No Need for Fuel&DEF Refills

Decarbonization Carbon Emissions ZERO

Reduced Site Operating Costs (Labor & Fuel Costs)

Wired Electric Hydraulic Excavator





Metal Recycling Company T in Sendai



Metal Recycling Company K in Osaka



Company K

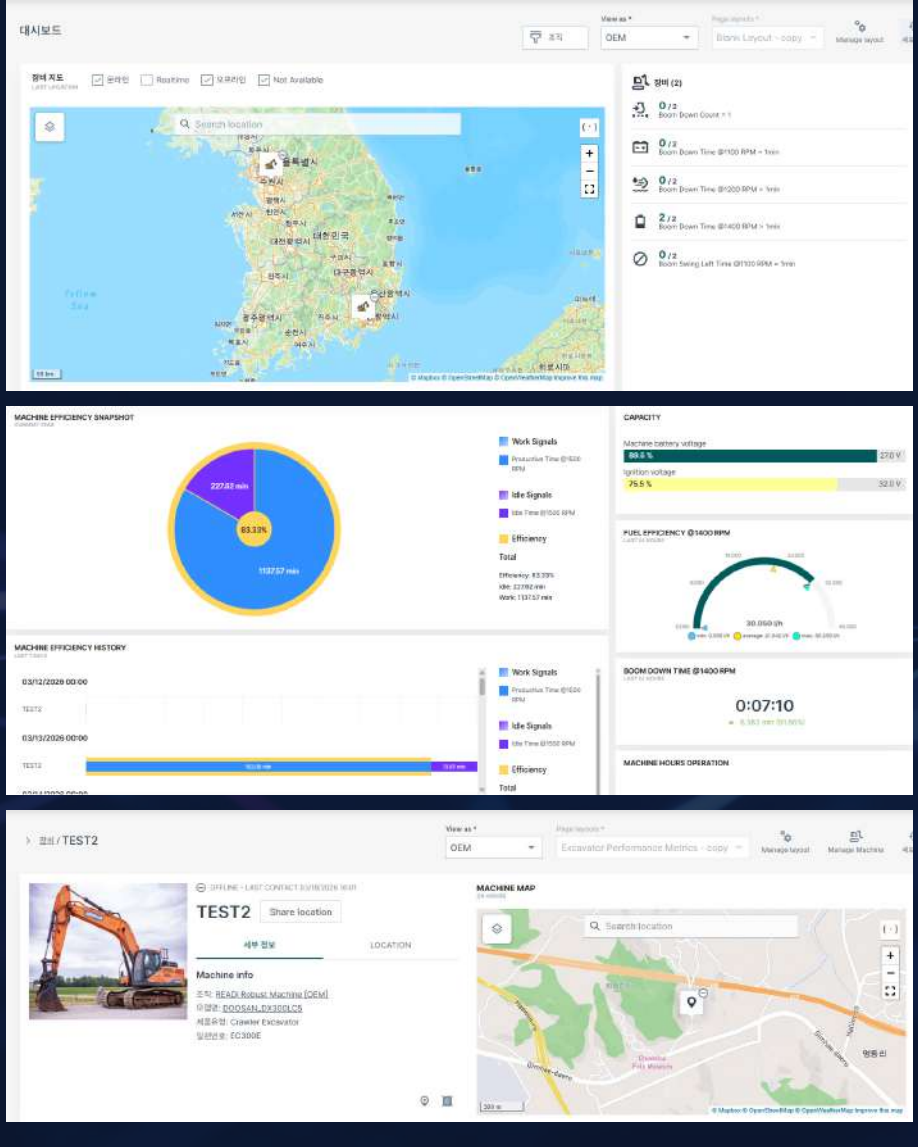
Reduced monthly fuel costs from approximately ¥700,000–800,000 to electricity costs of around ¥200,000–300,000.

Approx. 66% Reduction

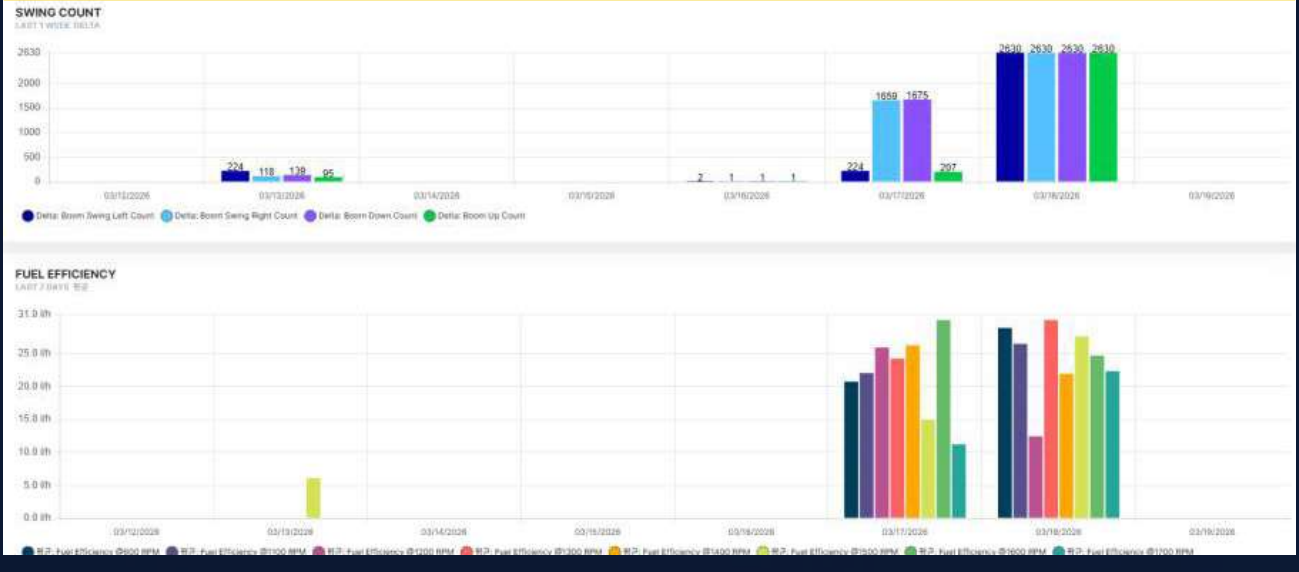
Site Solution

SITE OPTIMIZATION SOLUTION

- Equipment Management + Maintenance Service + Work Efficiency Improvement
- Work Cycle Analysis → Optimization
- Equipment Downtime → ZERO



PC-Connected Data Interface



Mobile-Connected Data Interface

Cloud Connectivity

Function Selection

Real-Time Status Monitoring

Apple



Android



SUCCESS STORIES BY READi ROBUST MACHINE

Waste disposal & treatment sites

Scrap Yards

Construction sites





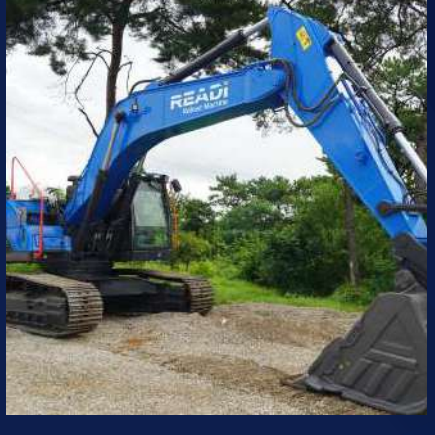












READi

We are experienced engineers who have developed this unique device through extensive research in this field. Our company has created this power hybrid system for excavators and other hydraulic machinery. The Smart Energy Recovery System can be installed in both used and new machines. By using this system, fuel costs can be reduced while also reducing carbon emissions. Let's build a more sustainable future together.

What is READi?

- **R** Robotics
- **E** Energy Conversion & Electronics
- **A** Automation
- **D** Diagnostics
- **i** Intelligent Solution

