

㈜AtwoM, 2024.11.01



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## 1. Company Overview

A2M Co., Ltd. is aiming for a sustainable open platform through the convergence of energy and information and communication technology (ICT).

·CEO: JUNGWOO KIM

·Establishment: 1998.6.10.

· Head Quarter: 27, Gukjegwahak 2-ro, Yuseong-gu, Daejeon

(Branch: Hanoi, Vietnam)
\*Revenue: 10 billion won

•Employees: 120 (including branch)



## **Business Area**

**Product & Service** 

#### Renewable Energy ICT

Wind turbine O&M Platform(byWIND)

REC · Carbon Emission Trading Platform(E-market)

Web-based ADMS system for DSO

Industrial Complex Microgrid EMS

#### **Information Service Platform**

IIS(Integrated Information System)

MIS(Management Information System)

RMS(Research Management System)

PMS(Project Management System)

EIS(Executive Information Systems)

E-audit system

**Enterprise Portal** 

#### **Web-based Solutions**

Data Plus+

File Transmission Solution Nero'

Group ware TMWARE

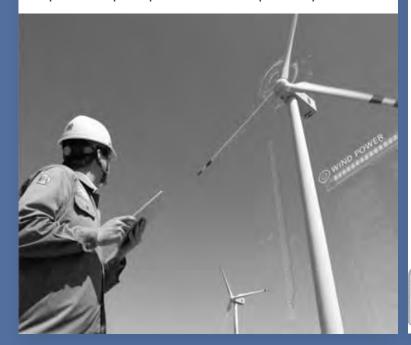
Code Quality Management Solutions

# 2. byWIND(Wind turbine O&M Platform)

**Key Strategy** 

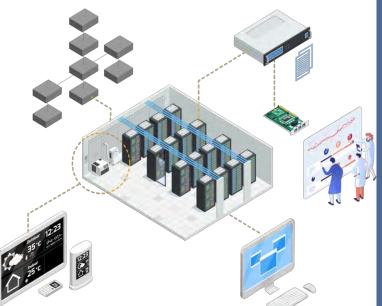
Application of digital wind power generation model using 4th industrial technology

Utilize ICT technologies such as big data, IoT, and AI to efficiently operate wind power plants and maximize profitability



2. Leads Web-based operator-driven O&M single system integration

Extend your business using e-data models\* to provide optimal data-driven decision-making solutions



Response to climate change and securing carbon neutral contribution methodologies

Entering overseas reduction projects to achieve the 2030 NDC goal\* (Securing a wind farm in Vietnam)

2030 NDC
400

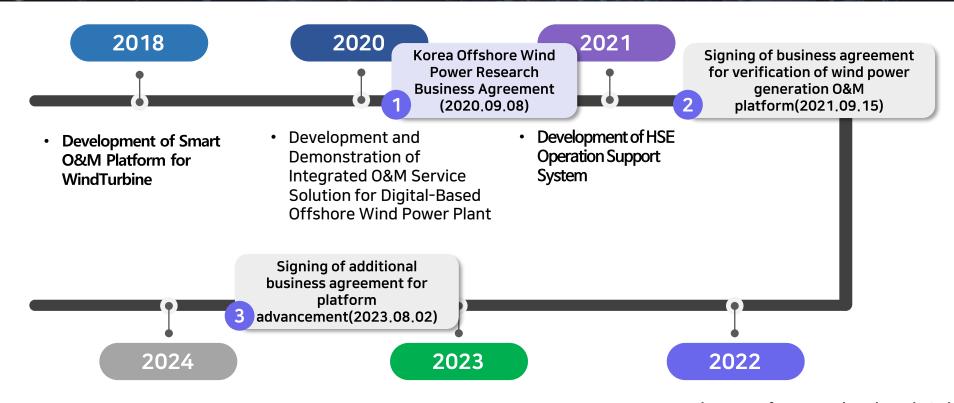
emissions reduction target of 40%
below 2018 levels by 2030

\*Support interconnection between wind farm standard and non-standard protocols and interfaces

\*37,5 million tons of GHG that need to be reduced abroad

# 2. byWIND(Wind turbine 0&M Platform)

byWIND's R&D history



- Maintenance and functional improvement of the wind power integrated operation management platform(Jeju energy corporation/April)
- Development of information system for integrated offshore wind power operation(July)
- Establishing a platform for managing small wind power generation
- Establishment of a comprehensive wind facility monitoring system using smart diagnostic technology
- Development of a SCADA data-based wind power generation forecasting AI service
- O&M scheduling technology development for large-scale wind farms optimization in domestic environment.

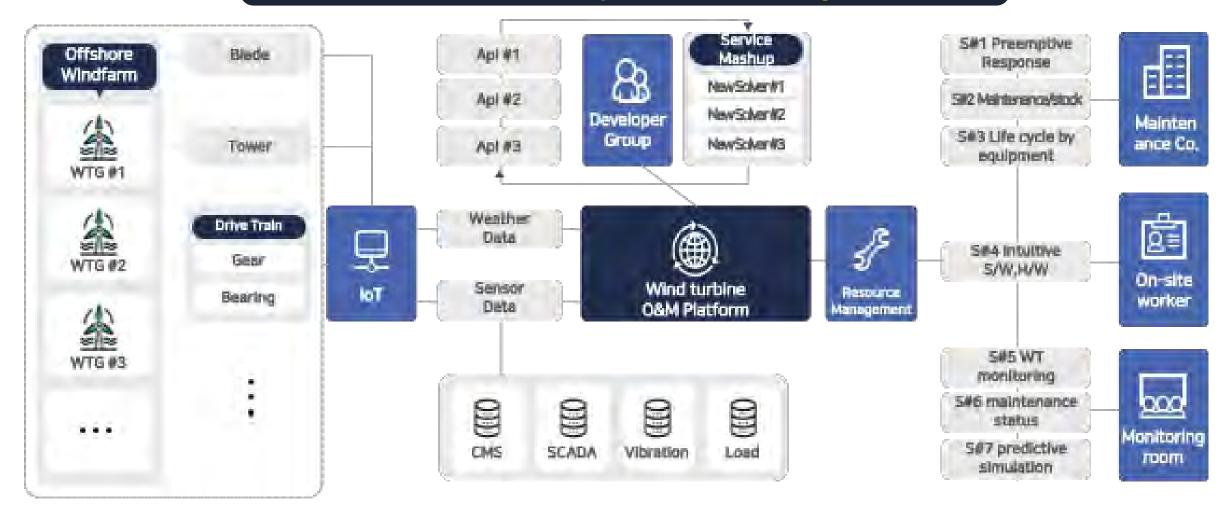
# byWIND2.x provides optimized functions for O&M of both offshore and onshore wind farms.

Category	byWIND 2.0*	byWIND 1.0
ustom dashboard	Operator, maintenance service, manufacturer, and shipper	Operator
Report	Daily report, maintenance and repair, operation log, and regular report	3 types of basic report
Forecasting	Wind speed and height, maintenance forecast*,LCOE	Generation amount
Resources	Ship (Registration, reservation, operation, and accident management) parts / equipment rental	Manpower, parts, and clients
Service contract	Maintenance / Parts management	-
System	Users (advanced), Clients	Wind farms / Individual generators

<sup>\*</sup> For maintenance forecast, we have an energy technology researcher and a machinery researcher ready to serve.

Commercial Wind Turbine / SCADA&CMS Data-Based Operator Decision
Optimization Support Platform

Minimize O&M costs by integrating monitoring and predictive diagnosis, human/material (ship)/weather (wave height)



## byWIND in the media

1 MOU(Jeju Energy Corporation)



2. News broadcast



## Status & Customer Needs

## Collecting 40 wind turbine data from 5 wind farms

· Configure 9 custom dashboards and detailed management features

## Linkage of new turbines and flexible resources

- ·ESS monitoring
- ·4.2MW monitoring
- ·Electric power facilities monitoring

Power grid system

Data manage ment Data collection reliability



## byWIND 2.0(Dashboard of Wind power generation)



### byWIND 2.0(failure and maintenance)



# 3. E-market(REC, Carbon trading platform)

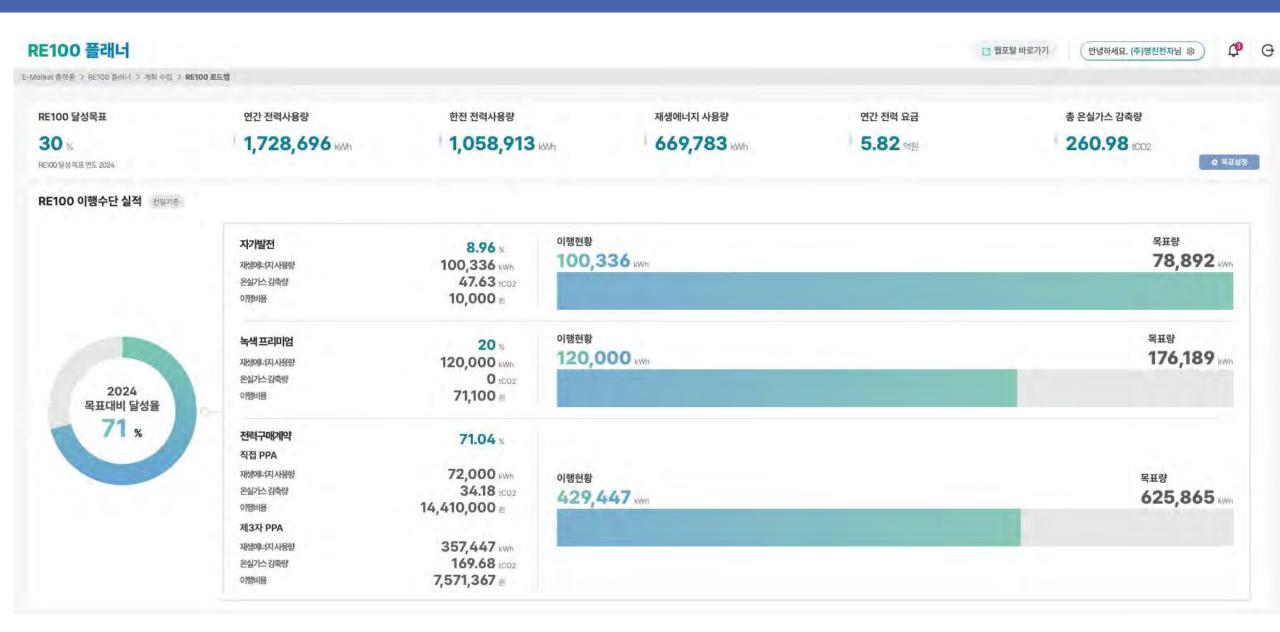
Key functions

- 1. K-RE100 consulting
- RE100 achievement portfolio
- Certification Support Services
- Support for RE100 implementation plan

- 2. Support for GHG reduction
- Carbon Reduction Analysis
- Emissions management
- Support for reduction projects

- 3. Over-the-counter trading
- REC and Carbon Emissions Trading Services
- Contract signing and settlement of transaction

### E-market(RE100 Planner)



## E-market(Carbon Planner)

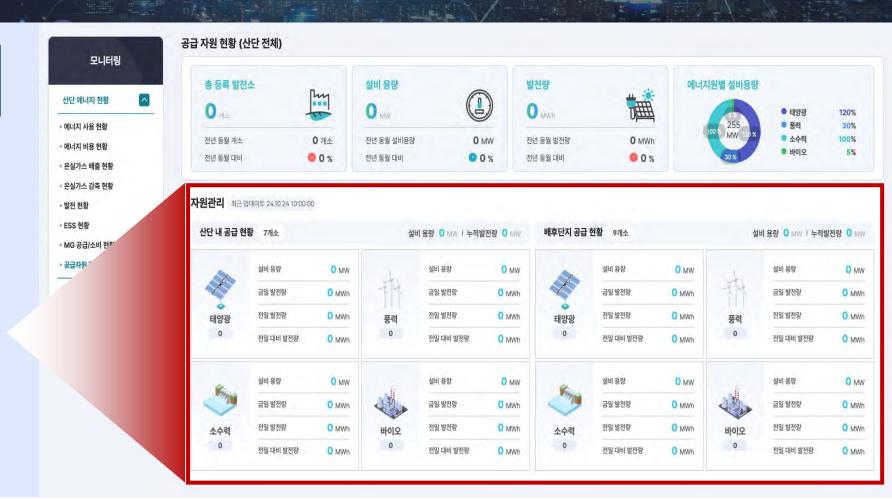


# 3. E-market(Carbon Emission Trading Platform)

Renewable Energy

#### Resource management

- Resource management for wind, solar, small hydropower, and bio installed in a specific area
- Integrate renewable power and use it for power transa ctions

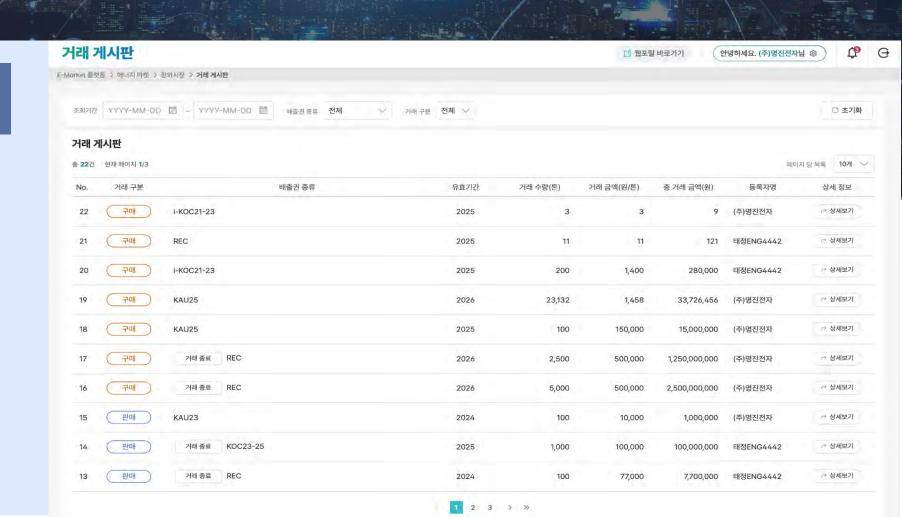


# 3. E-market(Carbon Emission Trading Platform)

**Trading** 

#### Trading system

- Trading is possible depending on the type of carbon credits in Korea and abroad
- Application of transaction s ettlement function



## We are looking for business cooperation opportunities.

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