

# Digitalization as a Driver to Decarbonize Energy Intensive Industries



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# ENVISION DIGITAL – ACCELERATING THE PATH TO A NET ZERO FUTURE



## Clean Energy Orchestration

## Net Zero Carbon Transformation

## Digital Twins of Industrial Infrastructure

|          |           |             |           |        |           |            |          |          |           |         |        |         |          |          |
|----------|-----------|-------------|-----------|--------|-----------|------------|----------|----------|-----------|---------|--------|---------|----------|----------|
| Wind<br> | Solar<br> | Storage<br> | Hydro<br> | H2<br> | Track<br> | Reduce<br> | Flex<br> | CCUS<br> | Trade<br> | ROI<br> | AM<br> | O&M<br> | Risk<br> | Data<br> |
|----------|-----------|-------------|-----------|--------|-----------|------------|----------|----------|-----------|---------|--------|---------|----------|----------|

Factories

Industrial Clusters

Ports & Hubs

Cities & Regions

Decarbonisation

Health

Green Growth

Jobs

Biodiversity

Circular Economy

# ENVISION GROUP - A GLOBAL CLEANTECH NETWORK



Wind Turbines



Battery Storage



AI + IoT Software



CleanTech Investor

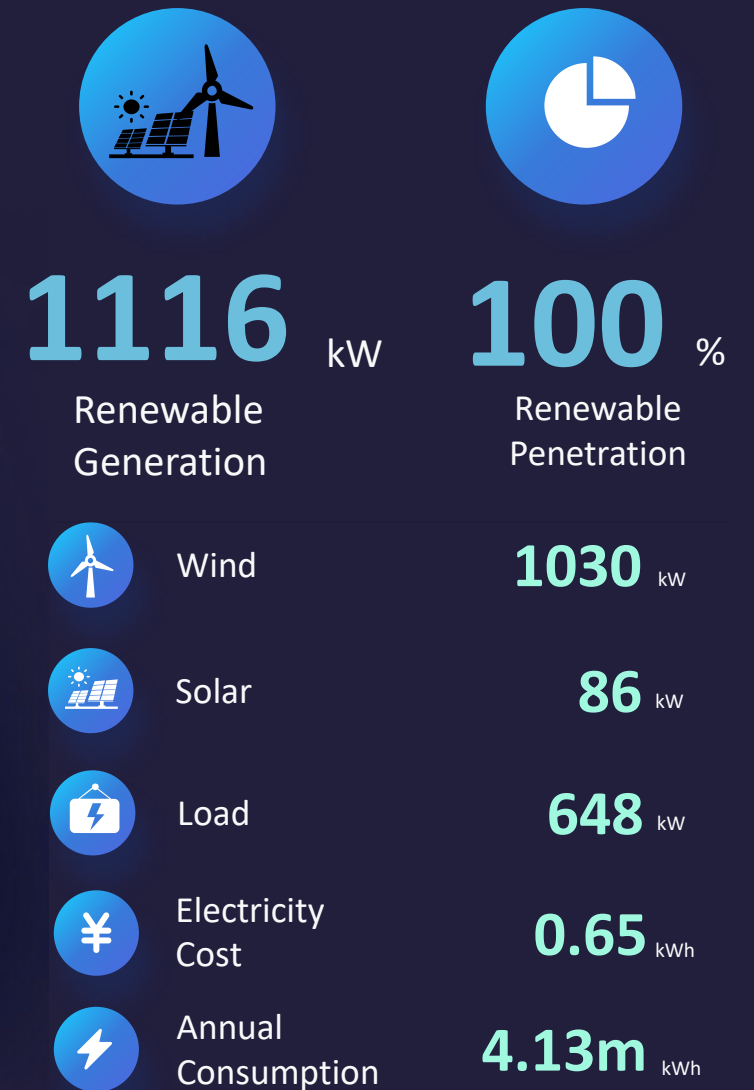
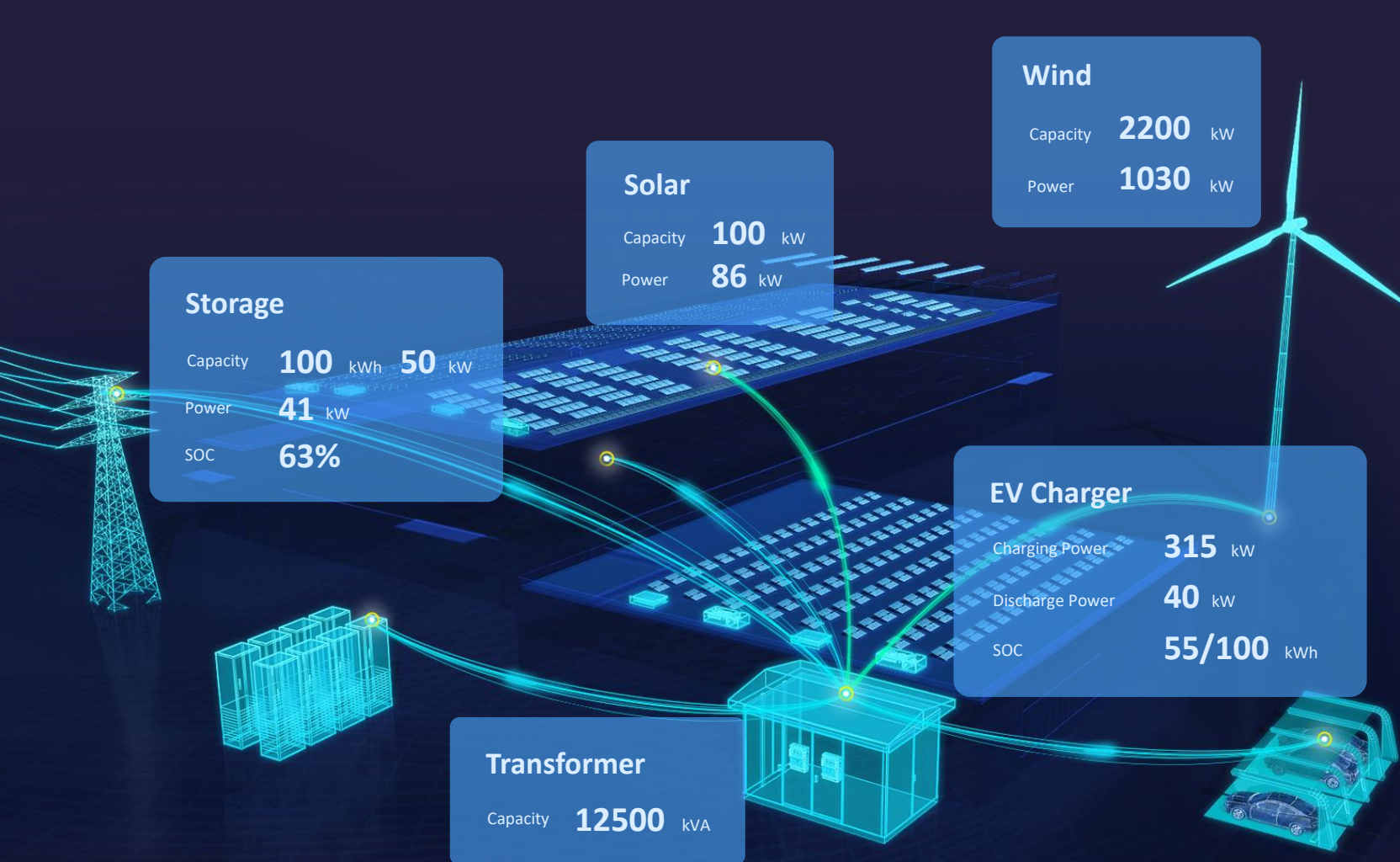


High Performance E-Mobility



# INTELLIGENT RE100 FACTORY TRANSFORMATION

## Envision Turbine Manufacturing Smart Industrial Microgrid





 Enesource  
and  
 Envision  
digital

Project

Platform

Services



# SIP - ONE OF THE WORLD'S LARGEST COMMERCIAL & INDUSTRIAL ZONES

EnOS™ Enables The Industrial Park Owner to Build An Open Energy Services Platform

## NEW PRODUCTIVITY

IoT, Big Data  
4G, 5G chips

## NEW PRODUCTION RELATIONS

Platform Economics based on  
Data and Applications

## NEW BUSINESS MODEL

Energy Internet Shared Service Platform  
Green and Low- carbon Transformation

8000+ MW

Assets Managed

50+

Energy Service Providers

4000+

Energy Consumption  
Enterprises

40+

Distributed and Machine  
Learning Algorithm



Renewable Investor



Manufacturer



ESCO



Operators



EPC Vendors



Electricity Supplier



Financial Service Provider



Application Marketplace

Big Data Analysis

Device Connection



Value-added Service Revenue  
(Deal-matching, Precision Marketing, Financial Derivatives)

Data Service Revenue  
(Data Analysis, Professional consulting)

Application Development Service Revenue  
(Software service)

# GREEN PORT TRANSFORMATION

Integrating Clean Energy, Storage, Resilience and Flexibility into Port Infrastructure and Operations



# ENVISION DIGITAL – STRATEGIC PARTNER TO THE EUROPEAN HYDROGEN ECONOMY

HyDeal Ambition: Europe's  
first open and integrated  
green hydrogen consortium

**Solar developers:** DH2/Dhamma Energy (Spain), Falck Renewables (Italy), Qair (France)  
**Electrolysis OEMs, engineering and EPC providers:** McPhy Energy (France), VINCI Construction (France)  
**Gas TSOs:** Enagás (Spain), OGE (Germany), SNAM (Italy), GRTgaz (France), Teréga (France)  
**Energy and industrial groups:** Gazel Energie, subsidiary of EPH (France), Naturgy (Spain), HDF Energie (France)  
**Infrastructure funds:** Cube, Marguerite, Meridiam  
**Consultants and advisors:** European Investment Bank, CVA, Clifford Chance, Cranmore Partners, Finergreen, Envision Digital International

HyDeal Targets 67GW  
of Green Hydrogen  
at €1.5/kg By 2030







# Envision digital



A leading Cleantech and sustainability pioneer through optimization of energy, infrastructure and e-mobility



Machine-to-Machine, AI-powered digitalization and decarbonisation of homes, businesses, industry and cities



Helping our clients accelerate their net zero carbon ambitions and digital optimization of infrastructure, to create a sustainable future



Envision Digital is a global AIoT technology leader headquartered in Singapore with over 500 employees across ten offices in China, France, Norway, the Netherlands, the United Kingdom and the United States.

Envision Digital owns EnOS™ – the world-class AIoT operating system which currently connects and manages over 63 million smart devices and 180GW of energy assets globally. Its monitoring, advanced analytics, forecasting and optimising applications provide insights to help clients better manage their assets and portfolio performance. Its offering extends to: Smart Renewables (Hydro, Solar, Wind); Smart Cities; Smart Buildings; Connected Energy; Smart Plants; and Smart Networks; partnering companies and governments in their digital transformation journey.

As a major player in the AIoT operating system, Envision Digital is growing an ecosystem of partners to enable energy and digital transformation globally. Its growing list of over 250 customers and partners spans across ten industries and includes: Accenture, Amazon Web Services, Govtech, Keppel, Microsoft, Nissan, Tableau, Total, PSA International, and Sonnen.

### **For more information**

To learn more about EnOS, contact your Envision sales representative or your Envision Business Partner, or visit the following website:

<http://www.envision-digital.com/meet-enos/>

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