





¿Quieres formar parte del sector #eólico?

#WIND #TALENT

JORNADA ABIERTA ALUMNOS UPM

 JUEVES, 27 DE MARZO 2025
 14H30 - 17H30
ESCUELA TÉCNICA SUPERIOR INGENIEROS MINAS Y ENERGÍA




Asociación Empresarial Eólica

En colaboración con:


POLITÉCNICA


UNIVERSIDAD
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INSCRÍBETE AQUÍ 



**Corporate
Presentation**







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Opdenenergy



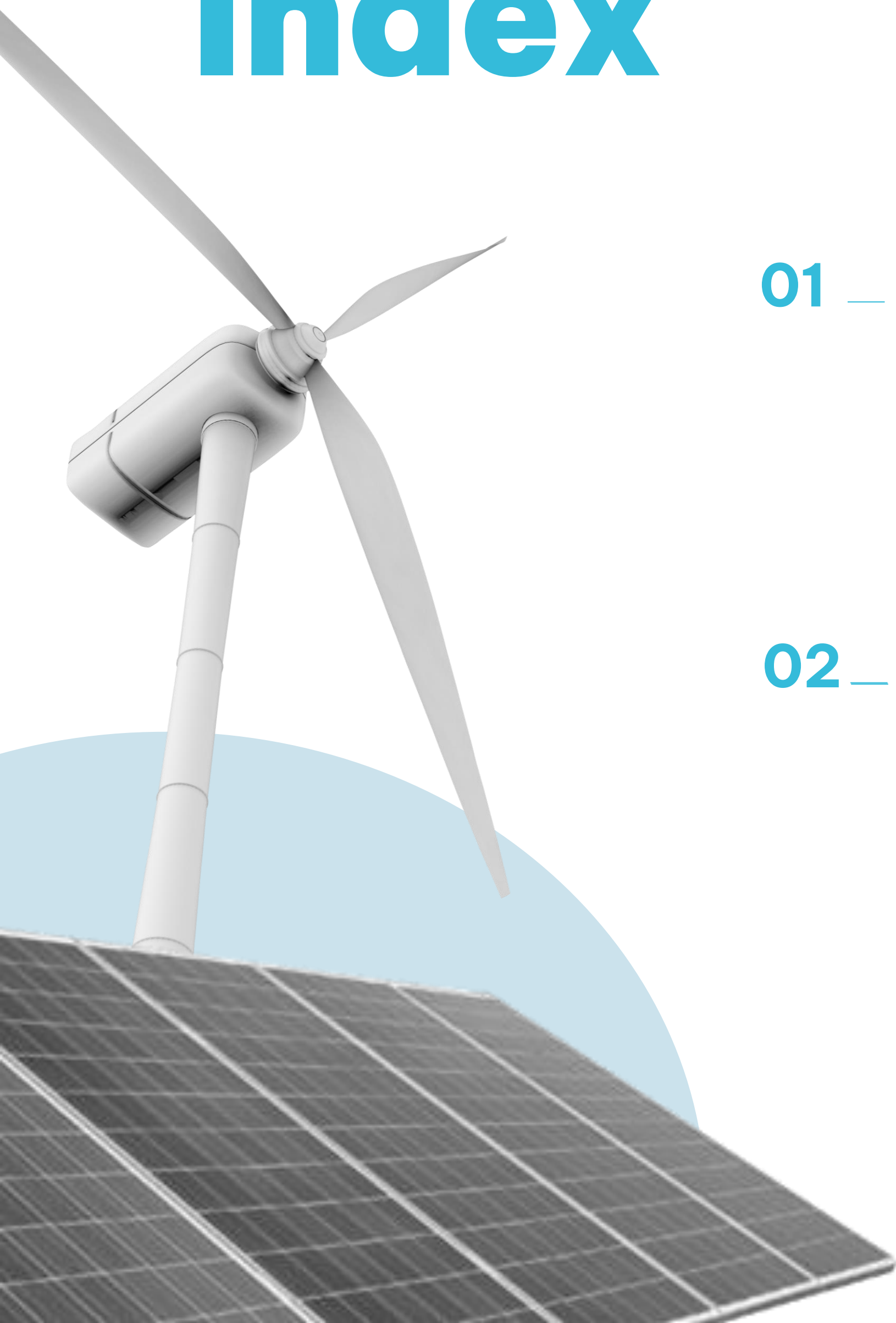
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focused on the energy transition





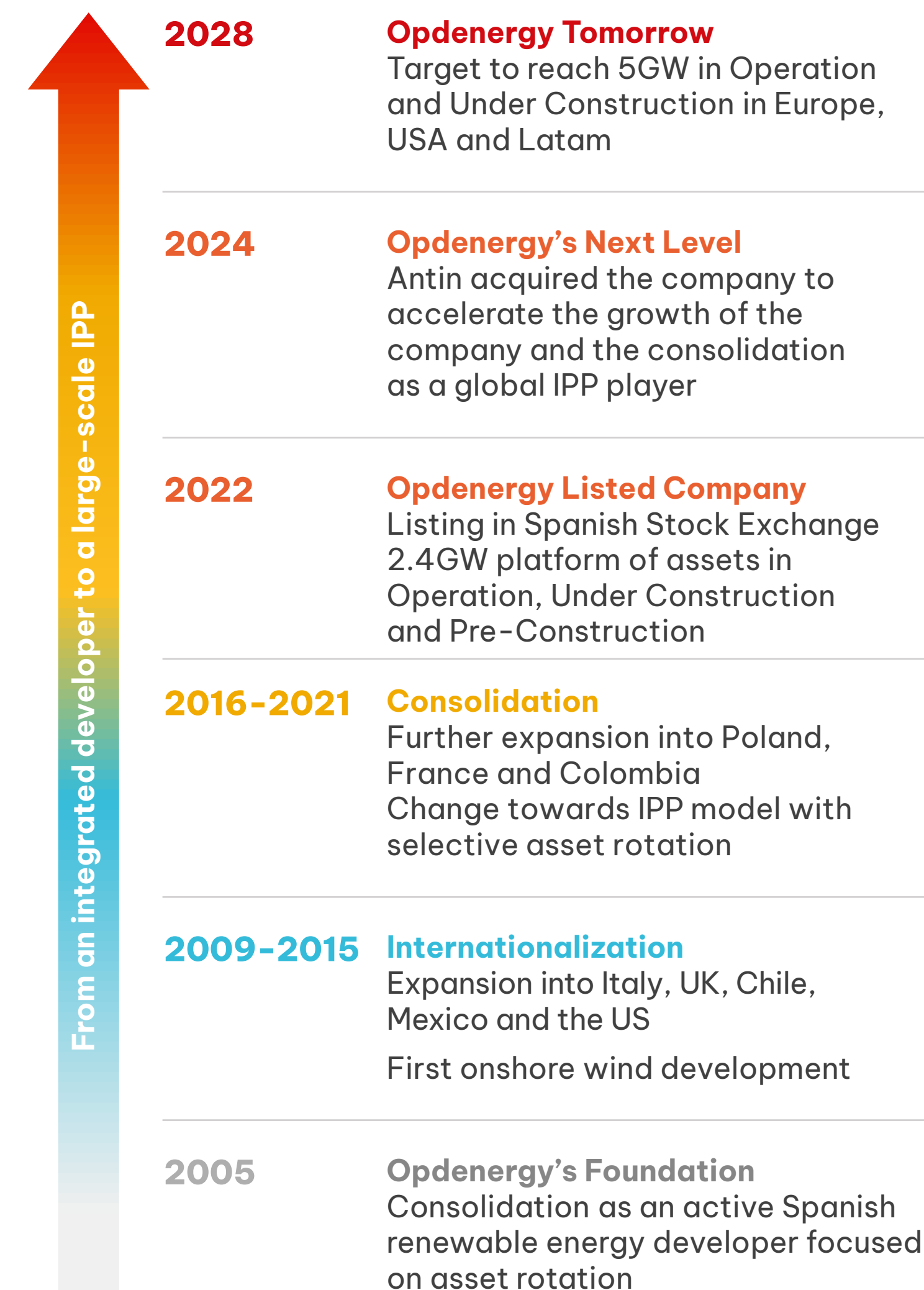
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Opdenenergy at a glance

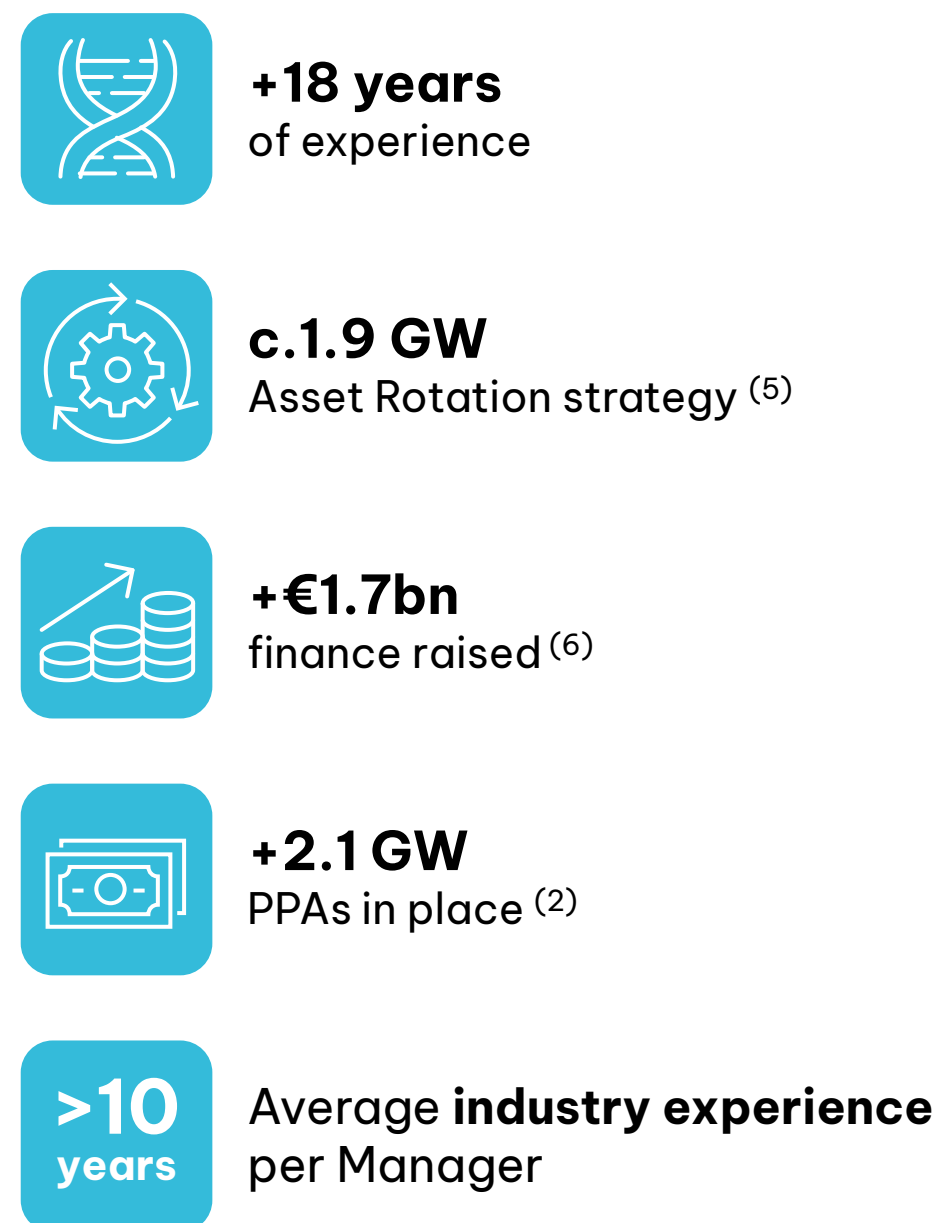
1 _ Opdenenergy at a glance

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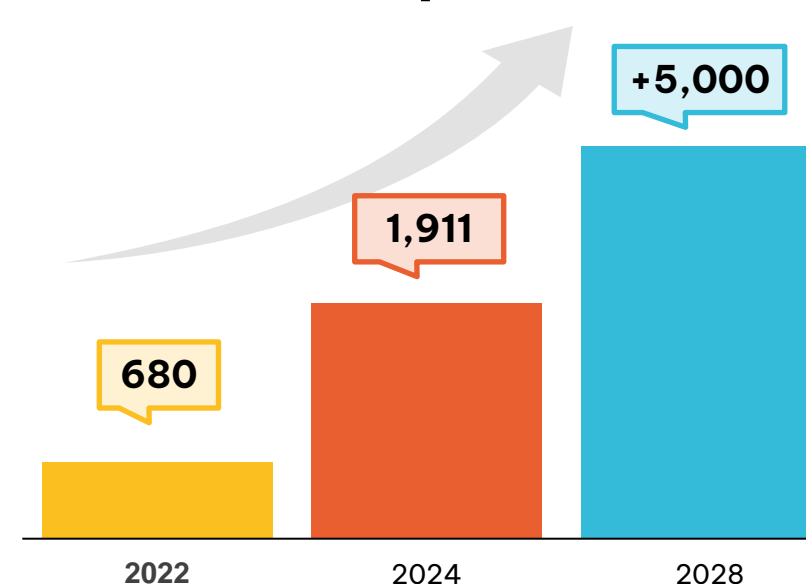
Integrated renewable energy platform with strong track record and high growth potential in key Tier 1 markets with over 18 years of experience in the business



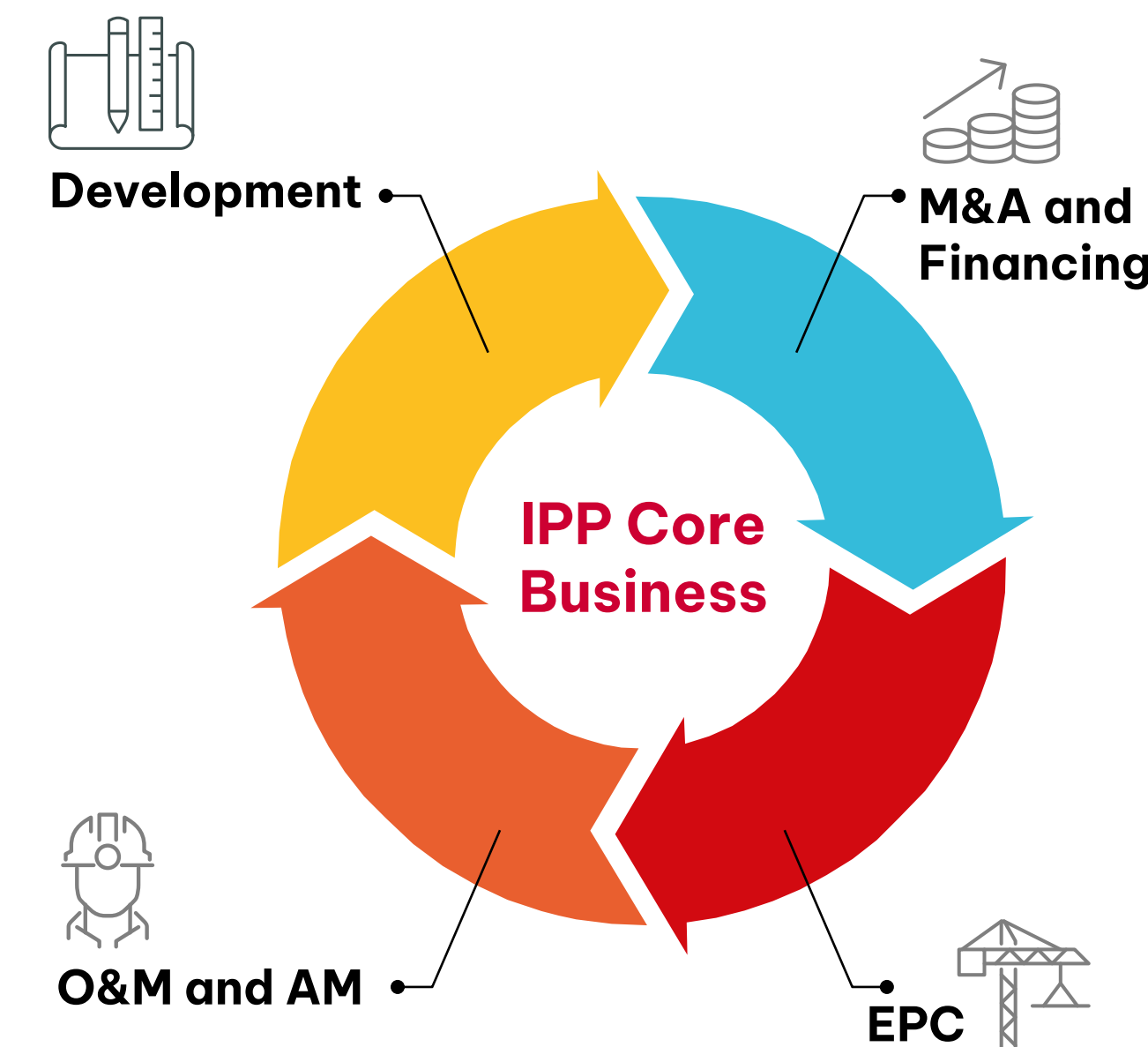
Track Record



Mws in Op.& Cons.



Business Model



Presence in 9 Tier 1 countries ⁽⁴⁾

Multi Technology

Growth

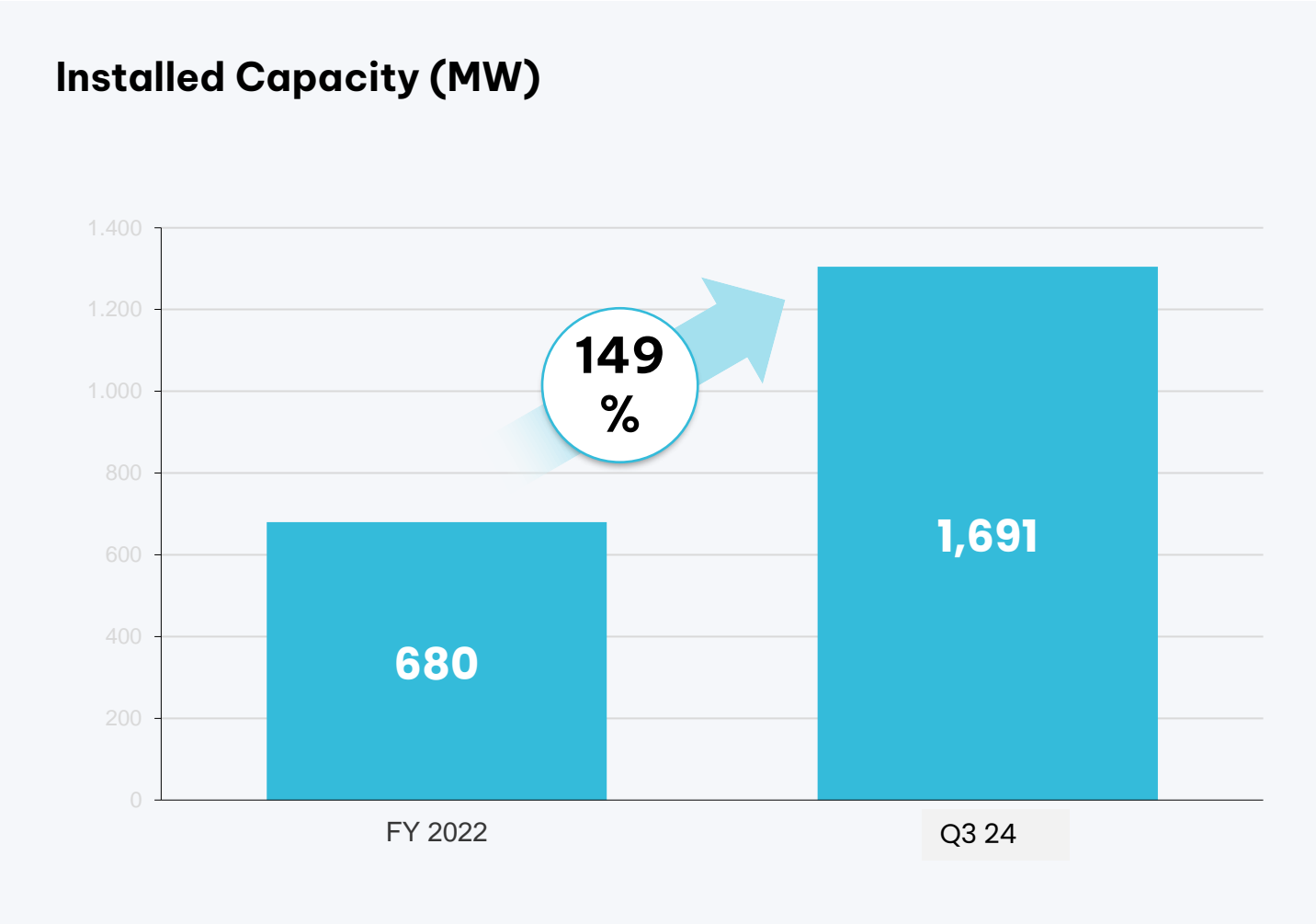






Notes: (1) Pipeline including advanced stage, early stage and Identified projects. (2) Capacity of assets with secured long-term PPAs. Depending on the country the production covered by the PPA contract varies such as 100% for USA or 70% for Spain. (3) Gross installed capacity, which includes all operating projects where Opdenenergy owns minority interests (Mexican operating assets). Vallobar (55 MW), Plana de Pena 1 (50 MW), Plana de Pena 2 (55 MW), Las Capillas (56 MW) and Las Mulas (29 MW) have finalized construction and are in connection process. (4) Opdenenergy considers they have entered a new market when they have actively started working on the development of a project, including land identification, financing agreements, etc. (5) Successful transactions of 1,834 MW throughout Opdenenergy's life including Bruc transaction pending final closing. (6) Including accumulated project finance and corporate debt raised as of October 23 (includes the financing raised of assets sold with financing in place).

1 _ Opdenergy at a glance

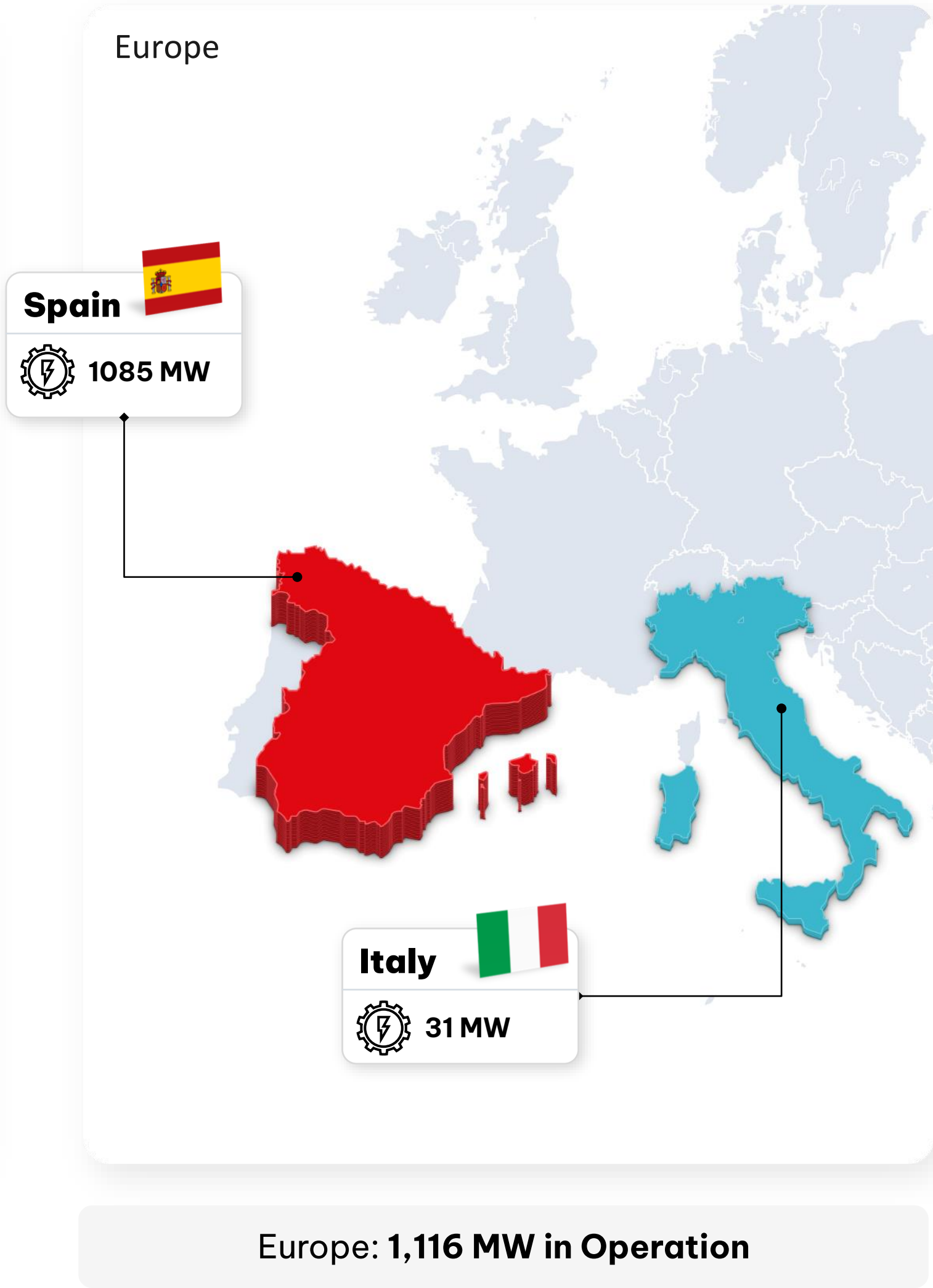
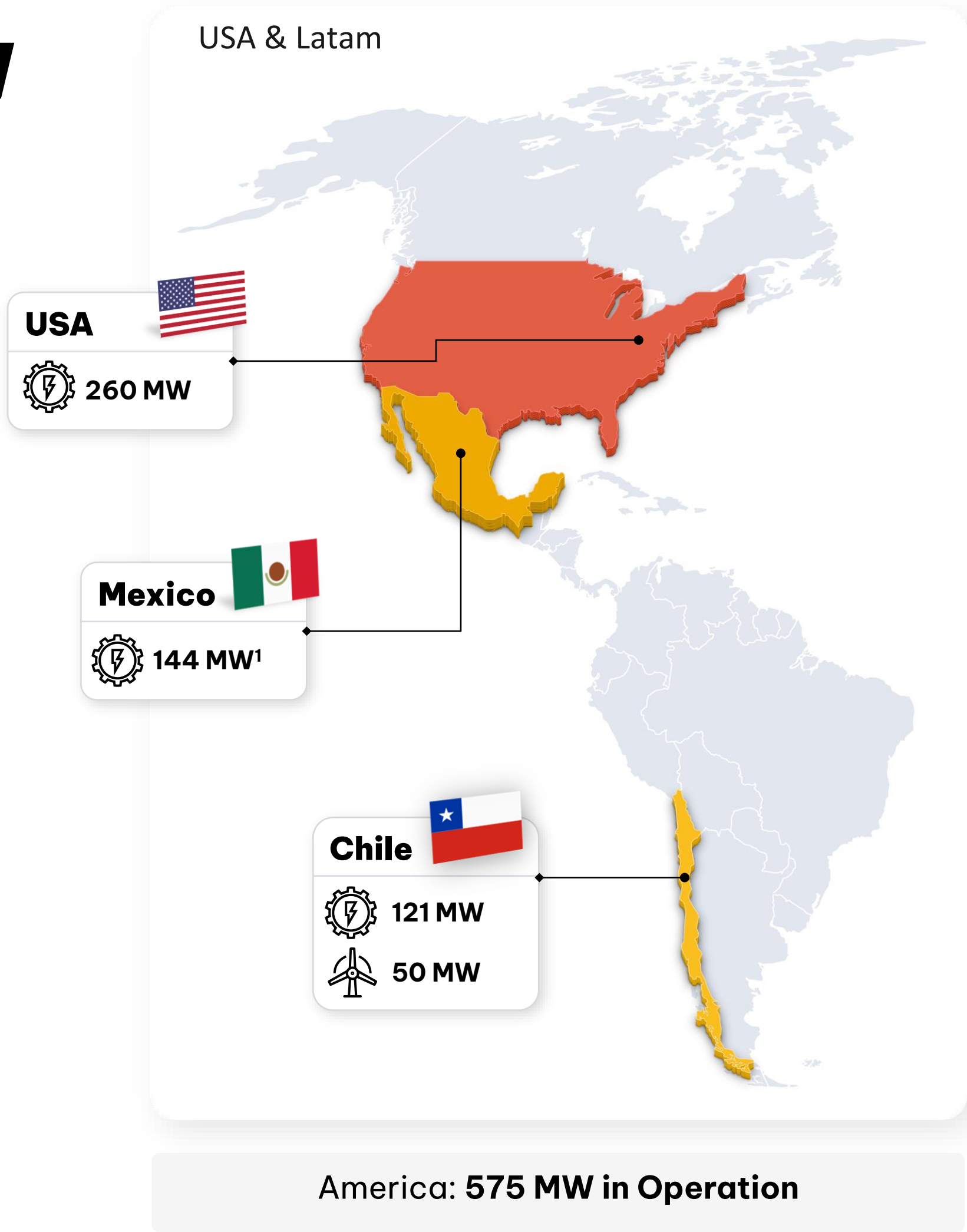
Opdenergy reaches +1.7 GW in Operation

680 MW in FY 2022 **1,691 MW** in Q3 2024



-  **Continue growth in capacity** platform and project development
-  **Technologically** diversified portfolio
-  **Hard currency** or linked to hard currency **PPAs**
-  **70% of production contracted with long term IG PPAs**

1.Opdenergy owns 20% of the Mexican assets.



2

The value of the correct talent focused on the energy transition



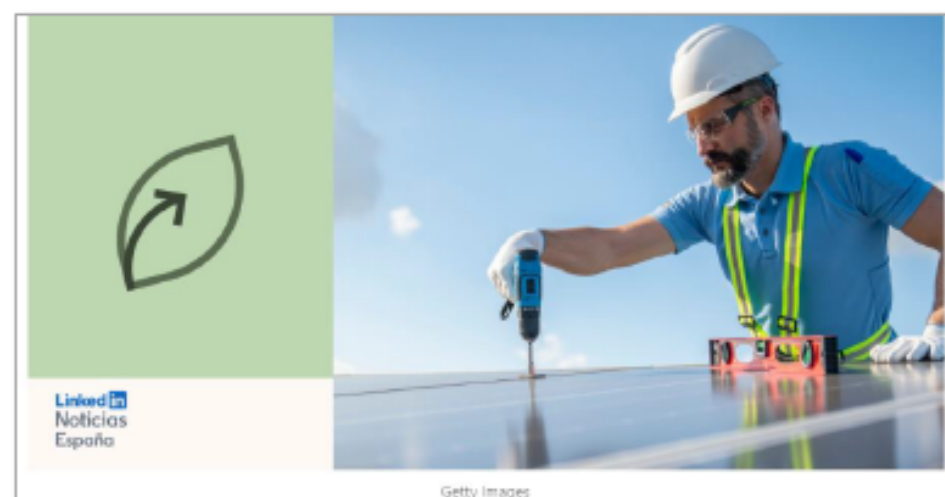
2_ The value of the correct talent focused on the energy transition

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- The shift to renewable energy requires interdisciplinary expertise.
- Innovation and efficiency depend on skilled professionals.
- The energy workforce needs to evolve with new technologies and policies.

E ECONOMÍA SOSTENIBLE

Los empleos en renovables casi se duplicaron en la última década alcanzando los 13,7 millones



Las renovables amenazan el liderazgo en empleo de las fósiles

ESPAÑA BATE RÉCORDS EN LA PRODUCCIÓN DE ENERGÍAS RENOVABLES Y EN LA GENERACIÓN DE EMPLEO

En las últimas 24 horas. **Se abren más de 40 vacantes laborales en energías renovables para España**

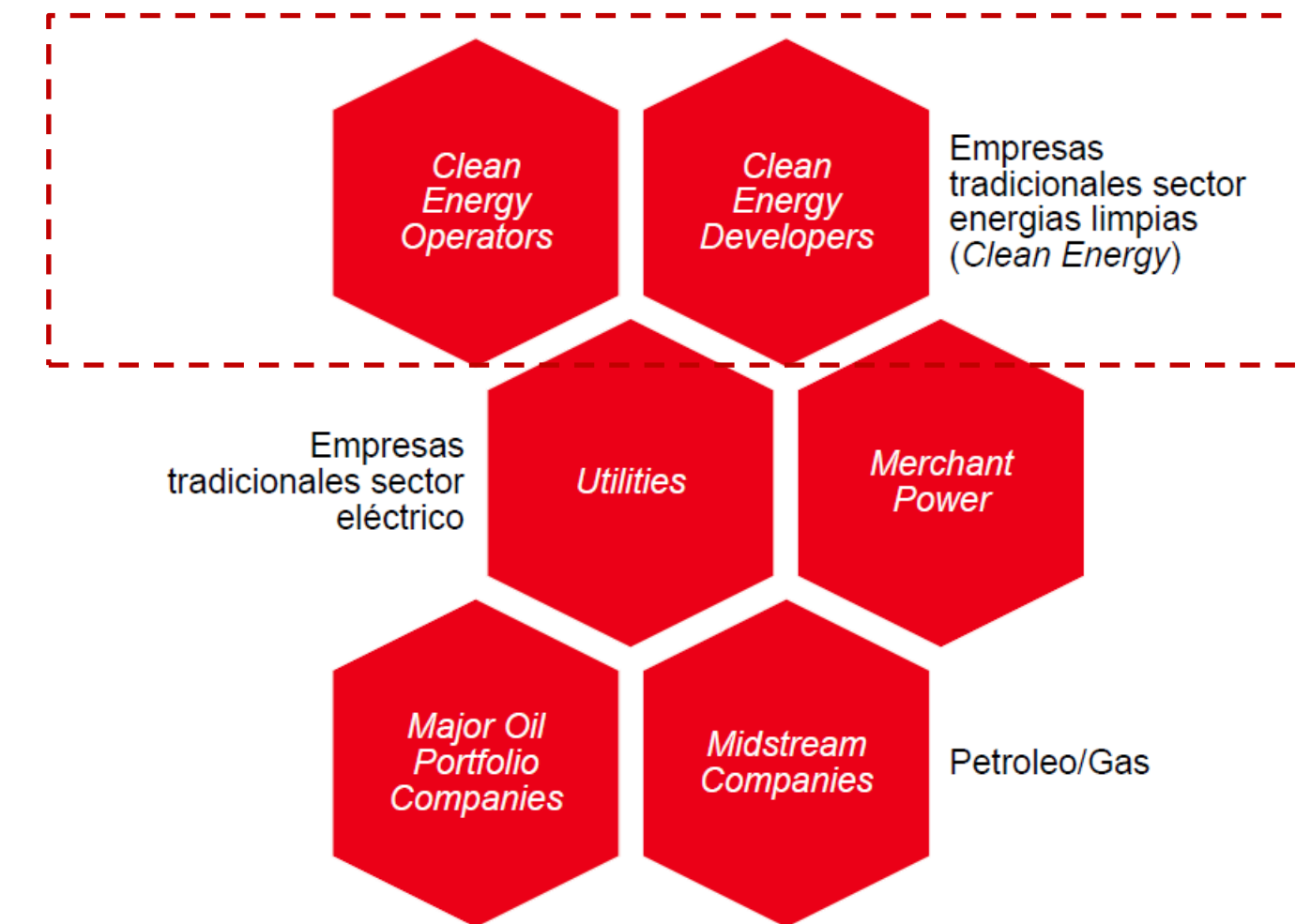
Opdenenergy, ACCIONA Energía y Nordex Group son algunas de las compañías que están detrás de las ofertas publicadas en el día de ayer en LinkedIn. ¿Qué perfiles buscan?

El sector energético tirará del empleo en España en los próximos meses

El sector maneja unas expectativas netas de generación de empleo del 24%, una notable mejora con respecto al trimestre anterior en el que registró un 0%

Las energéticas alertan: hacer permanente el impuesto especial de recursos naturales dificulta mucho las inversiones en renovables de 252.000 millones que el Gobierno espera que hagan hasta 2030

Centros de datos y energía renovable: una alianza real, necesaria y virtuosa



Growth in demand for green skills is outpacing the increase in supply
Between 2022 and 2023

+12.3%

Share of green talent in the workforce

+22.4%

Share of job postings requiring at least one green skill

What am I **passionate** about?

- **Solar** (photovoltaic and thermal)
- **Wind**
- **Hydropower** (large dams and small hydro)
- **Biomass & Biogas**
- **Geothermal**
- **Tidal & Wave Energy**

What do I like more onshore,
offshore, floating, I+D...?

Do I enjoy most operative areas hence O&M,
constructive hence EPC or energy resource,
financial as financing wind projects, commercial
as PPA & Revenues manager...?

Which areas I am interested to work on
site with? Northern Spain, offshore I+D
by some of our archipelagos...?



POSSIBILITIES ARE INFINITE!

> Higher Capacity Factor 📈

Wind turbines can operate up to **50% of the time** in good locations, while solar panels typically have a **15-25% capacity factor** due to sunlight variability.

> Works at Night and in Cloudy Weather 🌙☁️

Wind energy continues generating electricity at night and on cloudy days, whereas solar power relies entirely on sunlight.

> Less Land Required 🌄

Onshore wind farms produce more energy per square meter than an equivalent solar farm.

> Lower Dependence on Critical Materials 🏗️

Wind turbines require fewer critical materials like silicon or lithium-based batteries compared to solar panels and their storage systems.

> Less Degradation Over Time ⌚

Wind turbines last **20-25 years** with minimal efficiency loss, while solar panels degrade by **0.5-1% per year**.

Which is the **type of company** I thrive in?

- **Generation Companies:** Produce electricity from various sources
- **Distribution Companies:** Deliver electricity to end consumers
- **Retail/Marketing Companies:** Sell electricity and gas to customers
- **Transmission Companies:** Manage high-voltage power networks
- **Energy Service Companies (ESCOs):** Provide solutions to improve energy efficiency for industrial and commercial clients.
- **Technical Advisory:** Vendors which provide all types of technical assessment within the lifecycle of the wind Project
- **Technology Manufacturers/Developers/Maintenance:** of specific parts of the facility as of EPC or BoP elements, WTG, Blades, inverters, among others.

Why Opdenenergy needs you and what can we offer?



Wind Farm Design

- Wind resource assessment (WindPRO, WAsP, OpenWind).
- Turbine layout optimization & energy production modeling.
- Aerodynamics & fluid mechanics.

Mechanical & Structural Engineering

- Structure design & load calculations (FAST, Bladed, ANSYS).
- Material selection for blades & towers.
- Predictive & corrective maintenance.

Electrical Engineering

- Power generation & conversion systems.
- Control systems & SCADA (Supervisory Control and Data Acquisition).
- Grid integration & power regulation (DIgSILENT, PSCAD, PSS/E).

Construction & Project Management

- Geotechnical assessment for foundations.
- Construction planning & logistics.
- Budgeting & contract management (IEC 61400, grid codes).

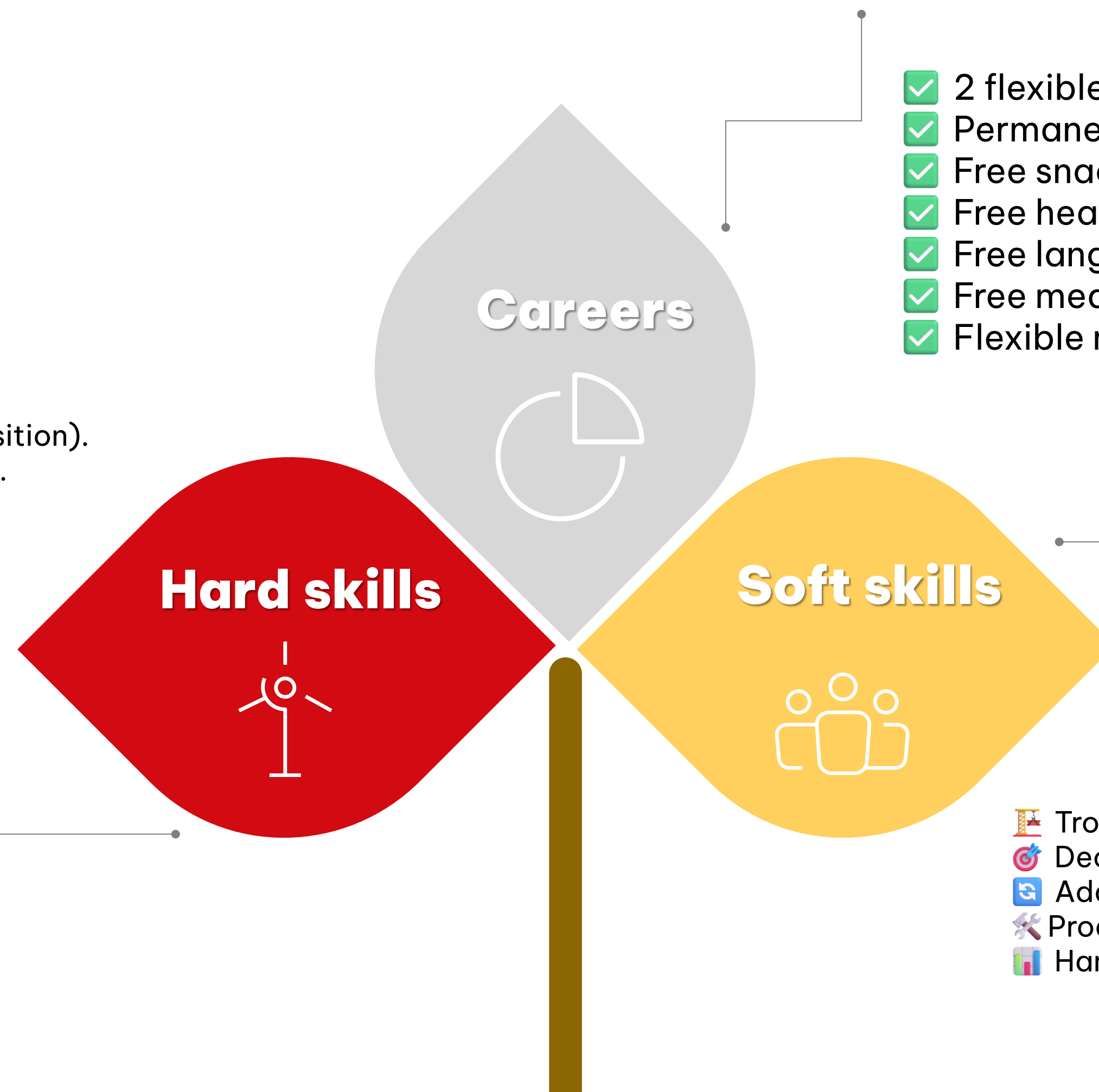
Operations & Maintenance

- Wind turbine fault diagnosis.
- Predictive maintenance (vibration, thermography).
- Performance & production data analysis.

Software & Programming

- GIS tools for site analysis.
- Programming (Python, MATLAB) for wind data analysis.
- CFD simulations for airflow studies.

- ✓ 2 flexible days working from home 🏠
- ✓ Permanent contract 📄
- ✓ Free snacks and well-equipped facilities 🍏 🏢
- ✓ Free health insurance 🏥
- ✓ Free language and training on demand 📖 💻
- ✓ Free meal vouchers 🍴
- ✓ Flexible retribution plan 🚗 🧑

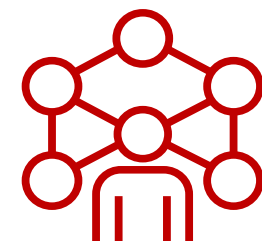


- Troubleshooting complex engineering issues
- Decision-making under uncertainty
- Adaptability to new technologies & challenges
- Proactive approach to risk mitigation.
- Handling multiple tasks & deadlines efficiently

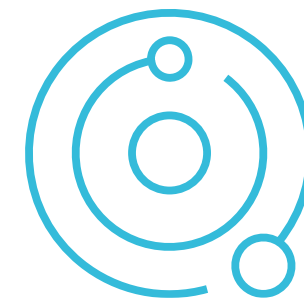
How can universities bridge the gap? (...and you as an engineering student)



Integrating real-world projects into your curricula



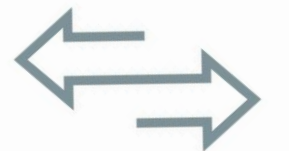
Gaining hands-on experience through internships and research projects



Building a strong professional network within the energy sector



Developing a mix of technical and soft skills



Seeking mentorship and professional certifications

To drive the energy transition successfully, companies need to invest in attracting, training, and retaining the right talent.

Engineers play a crucial role in shaping a sustainable energy future.



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All figures and information as of FY2022 results presentation (28th February 2023) and H12023 (29th September 2023).