

REPJOL

Low Carbon Day

Boosting the Transition

Josu Jon Imaz CEO





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01.

Repsol Strategy recapitulation

02.

Low carbon strategy progress

03.

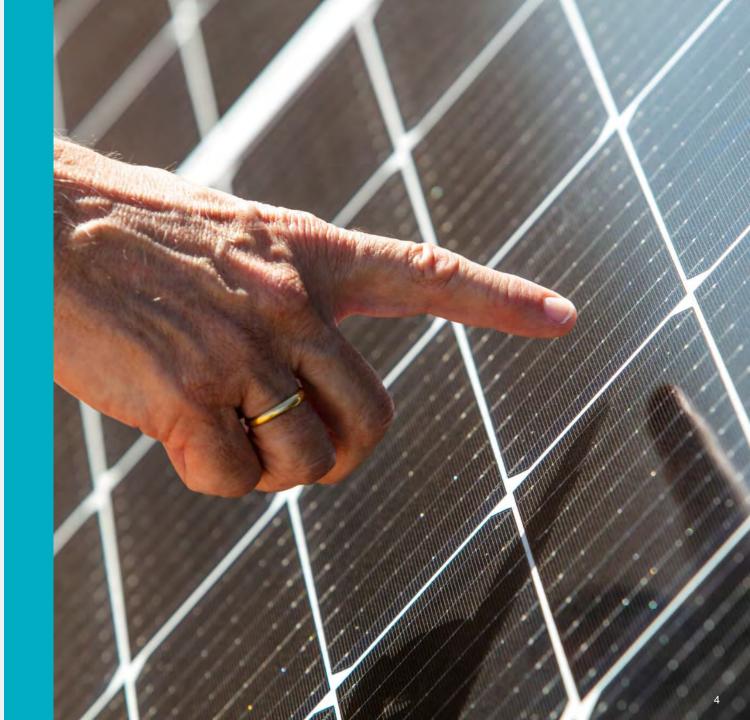
Ambition and targets review





01.
Repsol Strategy recapitulation





01. Repsol Strategy recapitulation



Decarbonizing the portfolio

Repsol Strategic Plan 21-25 is a transformation story, based on decarbonization, and will be done in a way that benefits Repsol as a whole

De-carbonize the portfolio

New operating model

- Profitable business platforms with leading advantaged positions
- An achievable ambition and multi energy company growth
- Distinctive ambition for transformation



 Leveraging on our businesses vertical and horizontal integration





01. Repsol Strategy recapitulation



Repsol with the right ambition and more feasible

Repsol's transformation story has a distinctive approach and differentiated starting point, with a right ambition and scale to afford decarbonization

the right ambition

a credible size

a well-suited play

- De-carbonization as a business opportunity creating profitable Transition growth platforms
- More credible and feasible ambition, right aligned with allocated Capex
- Legacy business providing cash-flow to enable the transition
- Large enough to build a leading player in the Energy Transition
- Small enough in the O&G universe to feasibly transform the portfolio with attractive opportunities
- Customer leadership in Iberia with differential brand over competitors
- Tier#1 industrial sites provide unmatched platforms for emerging de-carb business
- Iberian peninsula with local advantages on project economics (green H₂, e-fuels, circularity),
 provided by a large renewable resource base



01. Repsol Strategy recapitulation

Decarbonizing through a hybrid platform

Fit for 55 package reinforces Repsol's vision in which a combination of electrification and low carbon products is the best solution to decarbonize the economy



Repsol's hybrid solution supports a **cost-efficient transformation** based on competitive advantages.

Low Carbon Products

Sustainable biofuels











Renewable electricity











Industry

Buildinas



1.1% p.a. increase in renewable share in final energy & non-energy consumption

50% renewable hydrogen

13% greenhouse gas intensity reduction

Transport

Transport: >2.2% Adv. biofuels & >2.6% RFNBO1 Aviation: >5% SAF including >0.7% RFNBO

Cars & vans: PoR every 60km Heavy duty: PoR every 60-100km

H₂ stations every 150km



49% renewable share in final energy consumption

310Mt CO₂eq to 2030 based on natural climate solutions (LULUCF²)

RFNBO: Renewable Fuels of Non-Biological Origin, SAF: Sustainable Aviation Fuels

LULUCF: "Land use, Land-use change and forestry"

~65% renewable sources



provider







02.

Low carbon strategy progress







Building on our commitment since Net Zero announcement

Repsol today has a relevant low carbon portfolio, moving forward in 2021



Industrial



Renewables



Customer Centric



Carbon sinks

Transition from a strong position 2020

2021

700 kt/y total bios produced

250 kt/y advanced bios

First 7kt biojet batch

Circular polyolefins CCU demo plant Project

1.1GW Operational¹ in Spain and in Chile

11.7GW Strong pipeline

24 M customers

Leader in multi-energy low carbon products²

>1,300 Total Points of Recharge

Natural Climate

Solutions investments via Repsol Foundation

Carbon offsetting program in Waylet app

Ecoplanta

Signed agreement with Agbar and Enerkem

Cartagena C43

Start of works

H₂ business plan & team in place

Engineering phase three units >100MW FID 2.5 MW electrolyzer in Petronor

Hecate

Acquisition of 40% stake

Advancing projects

Started production in Valdesolar and Kappa

Delta 2, Pi, Cabo Leonés III F2 and Jicarilla 2 under construction

PPAs

Signed PPAs with Microsoft and in Chile

1.26 M P&G customers³

+12% growth in 1H21

Gana Energía

Acquired a majority stake in Gana Energía

Distributed Generation

Launched B2B & B2G solar communities

Sakakemang CCS

Engineering phase

E-fuels demo plant

Engineering phase

Green Engine

Launch of high scale forestation plan with Sylvestris

+€300 M Capex in Low Carbon Businesses vs Previous 2021 guidance, accounting for >30% of 2021 Capex



^{1.} Operating capacity of Delta I (335 MW), Cabo Leonés III phase I (78 MW – 50% WI) and hydro assets (699 MW)

Spain Market share in volume; value for 2019

Including customers from Gana Energía

Low carbon business platforms:





Industrial Transformation: Low Carbon Products

1.9 GWeq

Increased renewable H₂ ambition by 2030

- +40% increased 2025 ambition to 0.55 GWeg
- +60% increased 2030 ambition to 1.9 GWeq
- Three-way route: electrolysis, biomethane and photo electrocatalysis (long-term)
- E-fuels demo plant underway
- 2.5 MW electrolyzer in Petronor by 2022



4 2 Mton

Low carbon fuels¹ by 2030

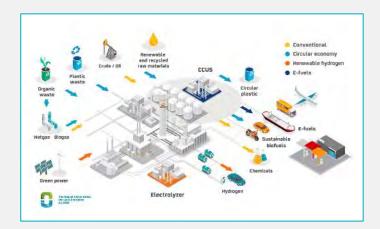
- 1.3 Mton of low carbon fuels to 2025
- Advanced HVO, the best option to comply with the legislation and grow in biofuels generating value
- First biofuels marketer in Spain
- Multi-technology and raw material approach



Recycled polyolefins by 2030

- 10% recycled polyolefins by 2025
- Chemical and mechanical recycling

Energy parks that fit into a more sustainable future



8.0

Mtpa CO₂ reduction from efficiencies by 2025

Mtpa waste¹ avoided by 2030

>7

Mtpa CO₂ emissions mitigated¹ by 2030







Low carbon business platforms:



Renewable Generation: increasing our ambitions



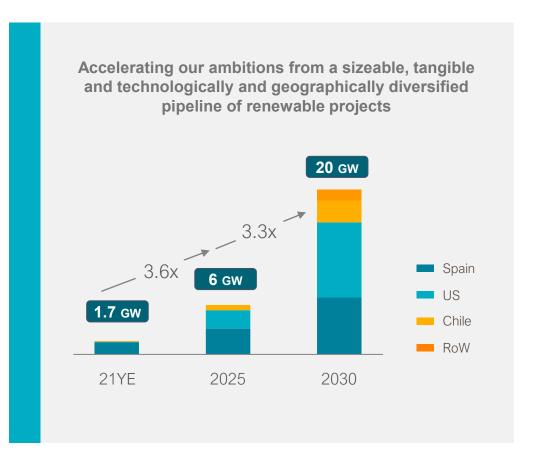
Increased Renewables capacity by 2030

- +15% RES ambition to 6 GW (2025)
- +60% RES ambition to 20 GW (2030)
- Hecate optionality: RoFos and takeover
- Balanced technology mix: solar, wind & hydro
- Hybrid projects and storage 4.3 GW pipeline
- Relevant presence in OECD markets



Best-in-class Equity IRR

- Capturing full yield of every project phase:
 - Top development and operational capabilities
 - Optimal Structuring and financing
 - Differentiated Energy & risk management
 - Asset rotation of operational assets



Selectively investing to create value



Low carbon business platforms:





Customer Centric Business: building on our advantages



Digital clients by 2025

- Unique position to serve the multi-energy needs of our customers
- 3M Waylet by end 2021 (+50% vs 2020)
- Vivit and Energy Origin launched in 2021
- Launching transversal loyalty program



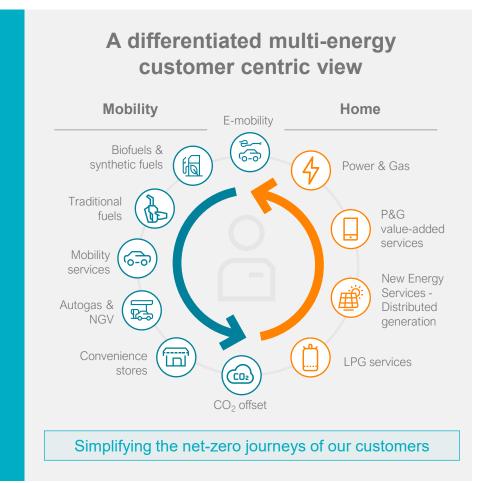
Public PoR by 2022 in Iberia

- Quick chargers every 50 km in Spain by 2022
- Capex €50 M in Spain
- Ultra / fast charging terminals in premium locations



Solar communities expected by 2021 YE

- Innovative solutions for energy generation and optimization, reinforcing a multi-energy offer
- Solify: self-consumption
- Solmatch and Ekiluz: communities oriented



To drive 1.4x EBITDA by 2025 (vs. 2019)



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Low carbon business platforms:



Carbon Sinks: committed with climate neutrality

Carbon, capture, utilization & storage



Sakakemang world-scale CCS project by 2027

Natural Climate Solutions



Forestry program through Repsol Foundation



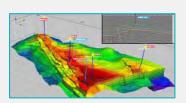


- Sakakemang storage capacity of 2
 Mtpa of CO₂ and €247 M total investment
- Actively involved in OGCI's CCUS hubs initiative

- 70,000 Ha of forests
- Voluntary Carbon Market advocacy
- A €100 M Carbon Fund

Relying on our expertise to abate emissions competitively

Sakakemang CCS project







Reforesting areas to both capture carbon and protect biodiversity

Green Engine initiative





≫ 60 M.
Trees
planted

2021-2026

Supporting our pathway to Net Zero





03.
Ambition and targets review



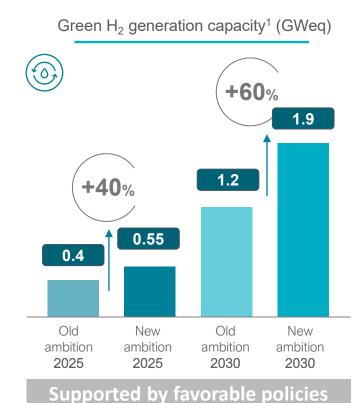


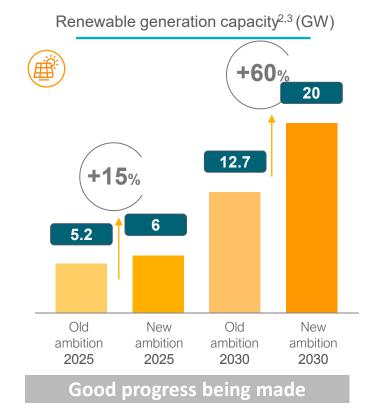
03. Ambitions and targets review

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Increasing our ambition

Repsol increased its renewable and hydrogen ambition and sets new CCB targets, encouraged by new opportunities, technology and favorable climate policy momentum





Customer Centric businesses



+1,000

Public PoR by **2022** in **Iberia**

Ultra / Fast chargers every

50 km

Strengthening our customer orientation



Net electrolyzer capacity (GW)

[.] Gross renewable generation capacity

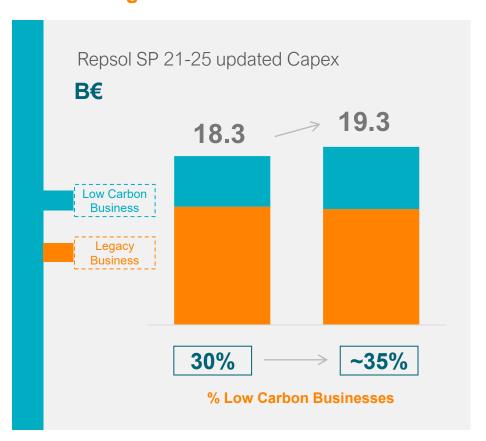
[.] Original SP 7.5GW and 15GW Low Carbon Generation. (5.2GW and 12.7GW Renewable Generation)

03. Ambitions and targets review

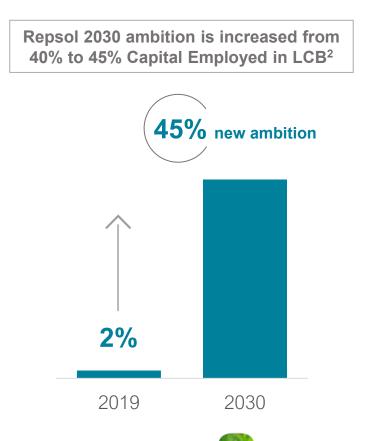


Repsol 2030 targets

Repsol increases its Capex in low carbon 21-25, due to value accretive identified opportunities, accelerating our transformation to 2030







Note: CE of RES considering consolidation by the proportional method. Capital employed figures not including Corporation (€2 B in 2019)

The Repsol Commitment Net Zero Emissions

^{1.} Includes new low carbon platforms, low carbon generation investments, decarbonization efficiency investments, e-mobility, and value-added services.

^{2.} Increase in low carbon CÉ through investments in low carbon generation, new industrial low carbon platforms (circularity, H2 & e-fuels, etc.), decarbonization through efficiency initiatives, e-mobility, and value-added services, among others

03. Ambitions and targets review

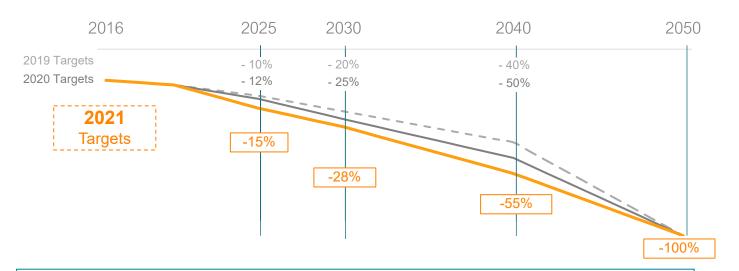
Repsol reviewed Net Zero pledge

A favorable regulatory environment and technological breakthrough encouraged Repsol to even further its CII intermediate targets

First O&G to claim Net Zero emissions

Committed in 2019, Increased in 2020, Reinforced in 2021

Carbon Intensity Indicator¹ reduction targets [gCO2/MJ]



New Ambition to accelerate the path to Net zero emissions in scopes 1, 2 and 3²



Leading the energy transition in line with the objective of climate neutrality in 2050



 ²⁰¹⁶ baseline.

Emissions based on the use of the products from our upstream production





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01.

Low Carbon Fuels Framework

02.

Providing Short Term Value with LCF

03.

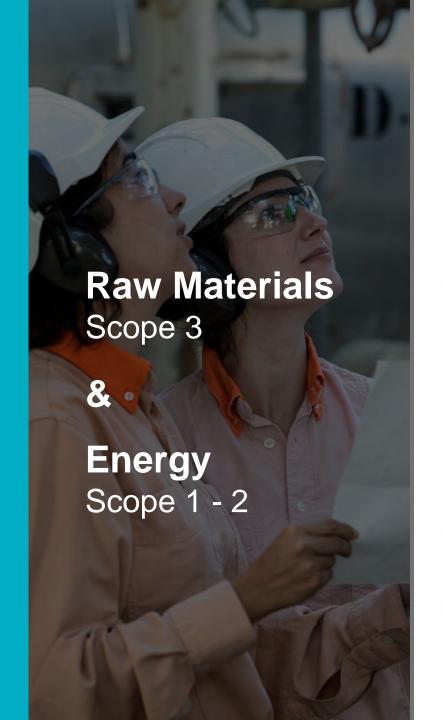
What is next? Our Pathway to 2030





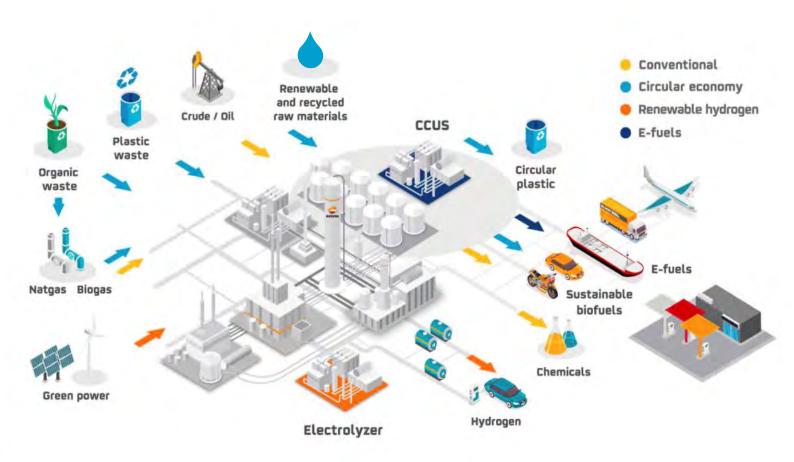






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Transforming our business model







Transforming our business model

- 1 Regulation
- 2 Technology Development and Integration in the Value Chain
- 3 Products Portfolio
- Supply management and ecosystem development

Anticipation + advocacy + local dialogue

Cost and CO₂ Competitive

Optimum location and integration

Low Carbon Liquid Fuels and renewable gases + other products

Agriculture and livestock + forestry + agri-food + municipal and industrial waste

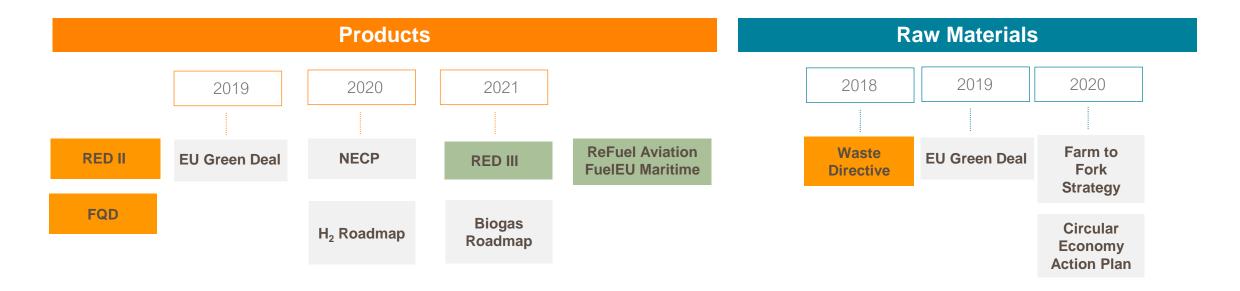
New Business Model







Regulation increases demand and promotes the development of raw materials



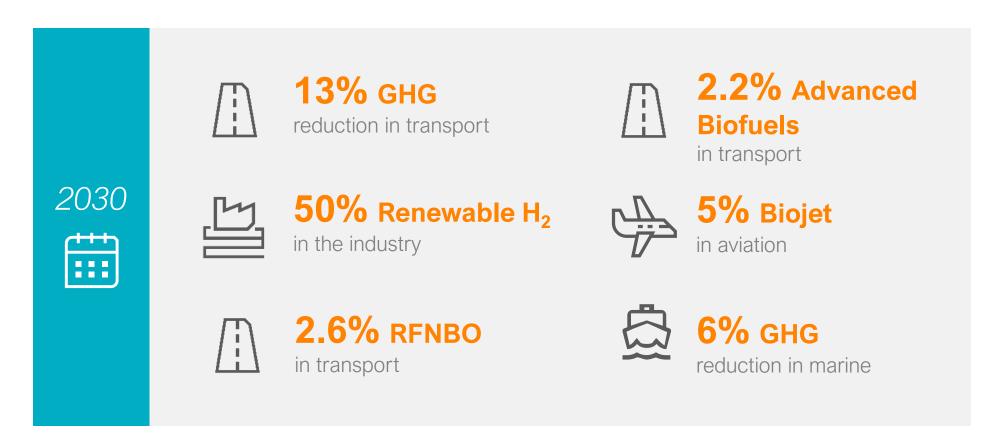
The regulatory framework in EU and Spain is promoting low carbon fuels and renewable gases as a decarbonization alternative for transport and other industries.







Regulation can significantly boost the development of low carbon products market



^{*} Proposal for the revisions and initiatives linked to the European Green Deal climate actions and in particular the climate target plan's 55 % net reduction target presented under the Fit for 55 package published on 2021July 14





Technology Routes

Low Carbon Liquid Fuels

E-fuels

Gasification and Pyrolisis – BTL and Pyrolisis Oils

Fermentation – Ethanol

Lipidic Route - HVO

Esterification - FAME

2021 2030

Anaerobic Digestion - Biomethane

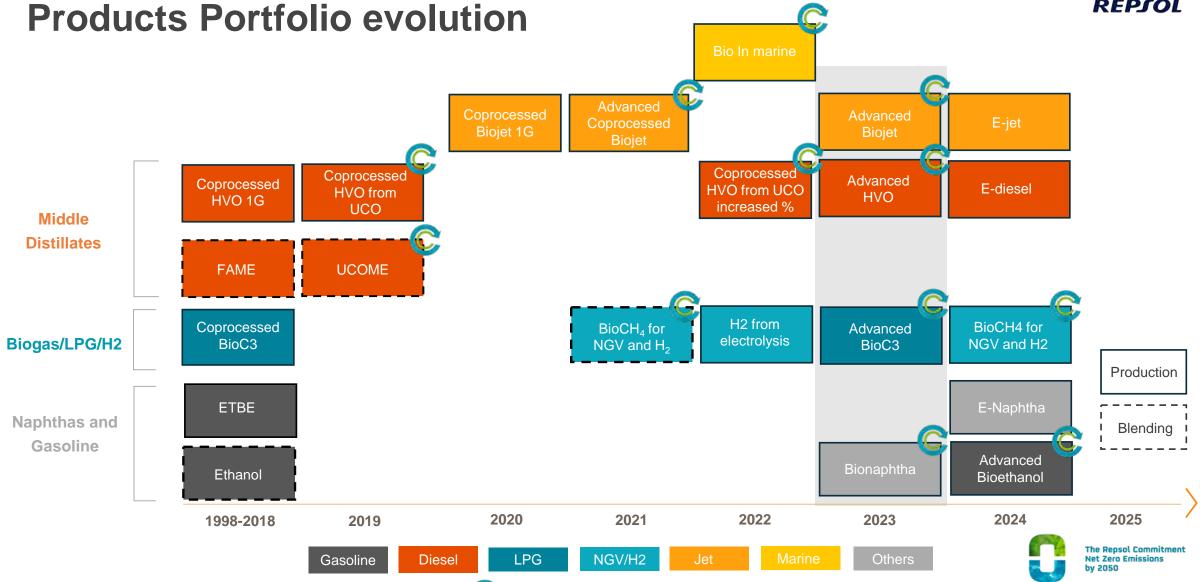
Renewable Gases

Gasification and Pyrolisis – Syn Gas - Hydrogen

Electrolysis - Hydrogen







Circular Economy







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Low Carbon Fuels. A reality



Already a leading HVO and bio-ETBE producer in Iberia, and first biofuels marketer in Spain

Producing bio ETBE since 1998 and HVO since 2011



Boosting production of **Bio Jet**

- Puertollano: 1st co-processed biojet batch produced in Spain. 7,000 Tn in July 2020
- Tarragona: Co-processed biojet batch production. 10,000 Tn in January 2021
- Petronor: 1st advanced co-processed biojet batch produced in Spain.
 5,300 Tn in July 2021



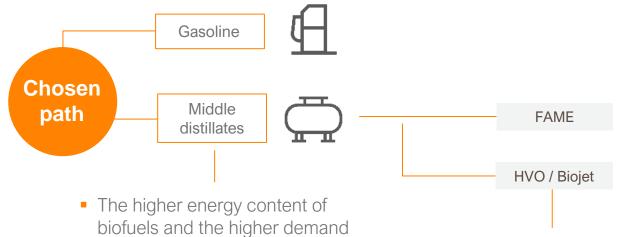
Testing more than 40 wastes and technologies for advanced biofuels and circular plastics

 H_2

Leaders in renewable hydrogen: First production from biomethane in Cartagena steam reforming in October 2021



HVO, the best short-term route to grow in biofuels generating value



- The higher energy content of biofuels and the higher demand for diesel allow to maximize the content of renewable fuels in the market
- Greater flexibility in raw materials for advanced BIOS production

- No technical limitations for HVO
- Technical barriers to manufacturing allow higher margins
- Technologies compatible with Biojet production



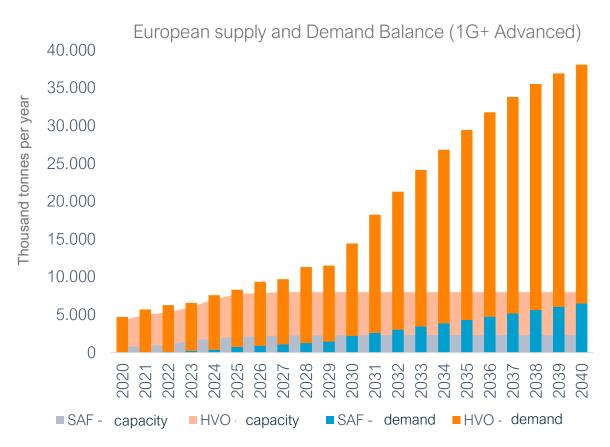
Production of advanced HVO is the best option to comply with the legislation and grow in biofuels generating value





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HVO and SAF demand



Source: Argus Consulting. REDII Based. June 2021



03. Our Pathway to 2030

HVO+SAF

2025 2030

Commercial

+300 kta +275 kta

Regulation

Renewable Energy Directive (RED)

ReFuel Aviation
FuelEU Maritime

Technology

Hydrogenation - Commercial New units or retrofitting

Raw Material

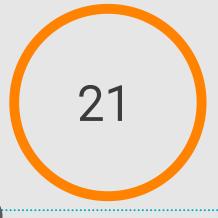
Sustainable Vegetable Oils
UCO + animal fats
Other lipidic residues included in
Annex IX Part A RED Directive

Final Uses

Transport (Road, Aviation and Marine)
By-Products for:
Renewable Hydrogen
Chemical Industry







Current Margin 250-750€/tep

Forecasted Margin 950-1,550€/tep





New Advanced Biofuels Plant in Cartagena

Investment

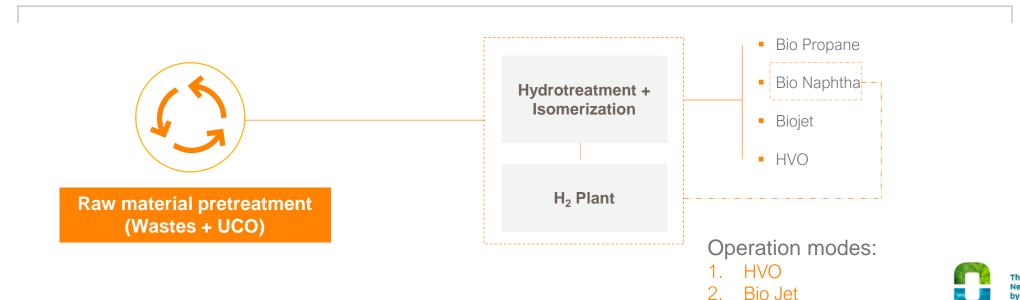
Capacity

Start - Up

Emissions Reduction

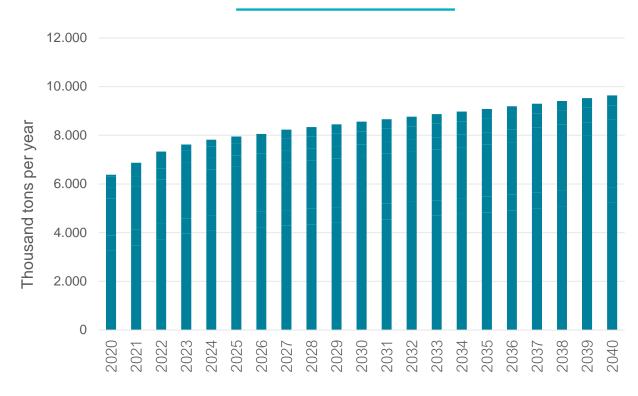
- 900 kt/y CO₂ Emissions

300 kty Waste and Residues Input



Wastes availability. Lipidic Route

Advanced lipids and greases European Availability



Source: Argus Consulting. June 2021



To go further in this route, raw material availability is key.

Already closing raw material agreements locally and internationally

The demand for these raw materials will stimulate its availability.

Before exhausting this route we are exploring others.





03. Our Pathway to 2030





Additional potential from solid wastes and CO₂

There is enough sustainable biomass (organic waste from any kind) in Europe for obtaining the expected advanced biofuel demand in 2050*.

To realise this potential, additional R&D would be required as well as the implementation of improvement management strategies. The supply chain would need to be developed to mobilise all these resources.



Source: Sustainable biomass availability in the EU to 2050. Imperial Collage 2021

Waste availability for energy uses (Mty)				
Type of Waste	2030	2050		
Municipal & Industrial Bio-waste	44 – 80	33 – 61		
Forestry Waste	204 – 370	215 – 408		
Agriculture Waste	272 – 410	291 – 447		

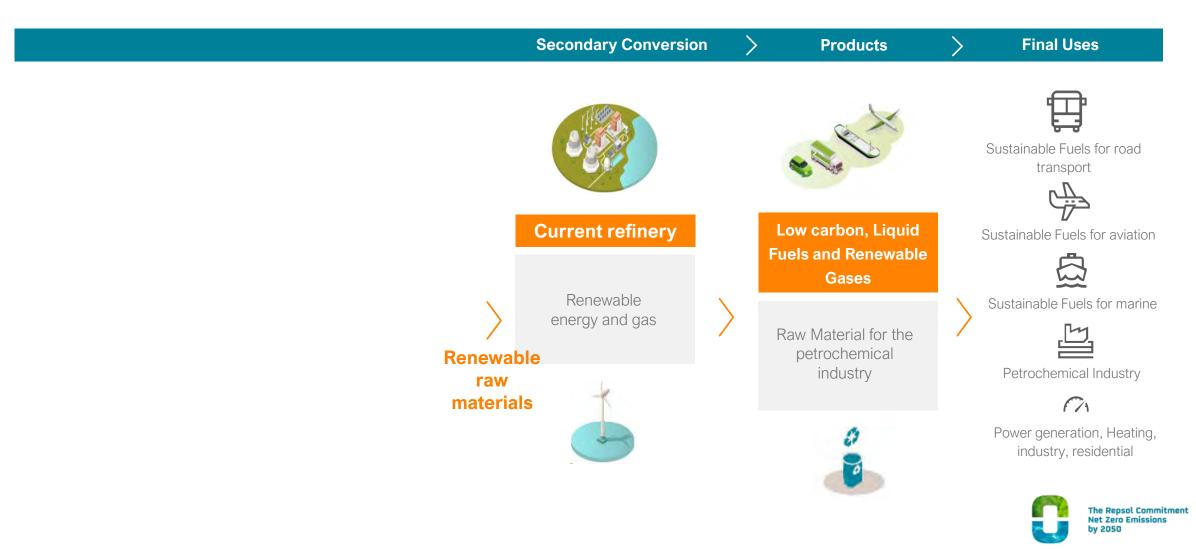




^{*} Fuels Europe Clean Fuels for All Scenarios.

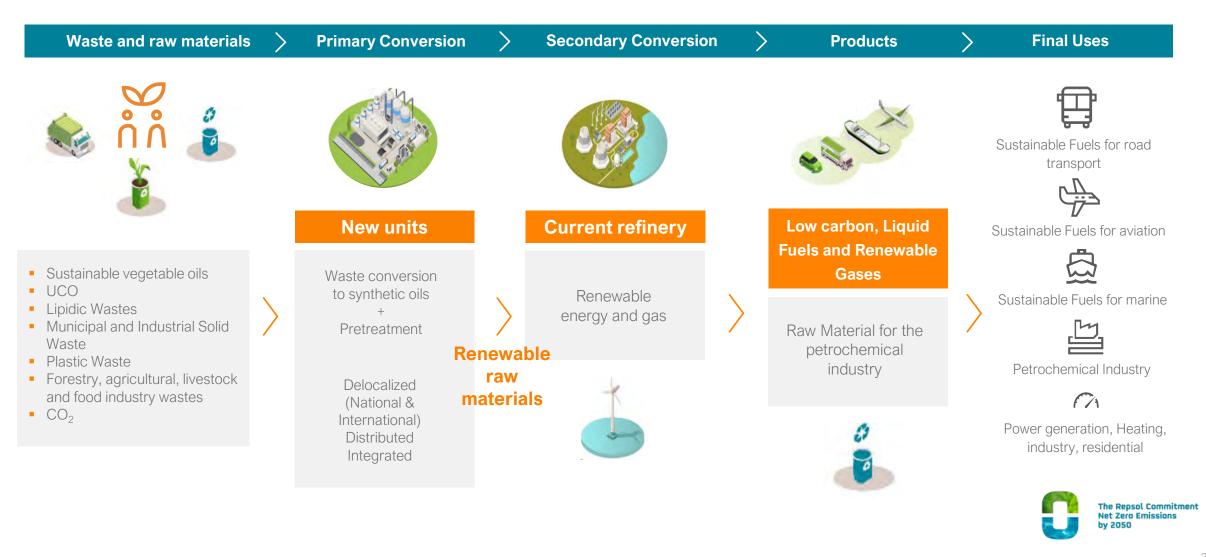


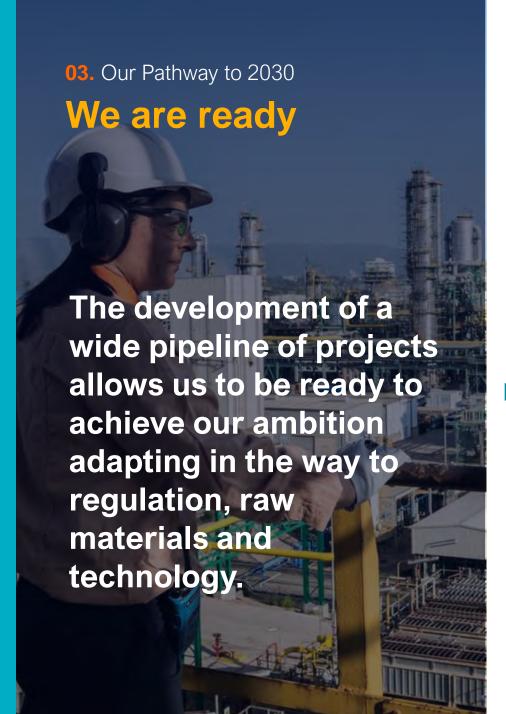
Integration with the refineries





Integration with the refineries







Long List

Ongoing projects

Ambition

Low Carbon Fuels Production Capacity

3.5+ Mty

2 Mtv

60+ Initiatives

Multitechnology. Raw materials flexibility. Competitive

Making use of the organization know-how and capabilities



2025

2030

BTL and Pyrolisys Oils Demo

Scale-up

+130 kta

Regulation

Renewable Energy Directive (RED) ReFuel Aviation FuelEU Maritime Waste Directive Farm to Fork Strategy

Raw Material

Municipal Solid Waste (MSW) Agriculture and forestry residues

Technology

Gasification + Chemical synthesis/FT + Upgrading Pyrolysis + Upgrading

Final Uses

Transport (Road, Aviation, Marine) Feedstock for chemical industry









Est. Gross Margin 200 - 2,000 €/tep



E-Fuels

2025 2030

Demo Scale-up

+2.5 kta

Regulation

Renewable Energy Directive (RED)
ReFuel Aviation
FuelEU Maritime

Technology

Reverse Water Gas Shift – Under dev + FT + Upgrading - Commercial

Raw Material

CO₂ Renewable Hydrogen

Final Uses

Transport (Road, Aviation, Marine) Feedstock for chemical industry









Est. Gross Margin 0 – 4,000 €/tep



Advanced Ethanol

2025 2030

Demo Roll out

+8 kta +16 kta

Regulation

Renewable energy Directive (RED)

Waste Directive

Farm to Fork Strategy

Technology

Fermentation – Scaling up

Raw Material

Organic MSW Agriculture residues

Final Uses

Transport (Road)
Intermediate Product for:
Renewable Hydrogen
Jet production









Est. Gross Margin 1,100 – 1,800 €/tep



Biomethane

2030

Commercial

400+ GWh/a

Regulation

Renewable Energy Directive (RED)
FuelEU Maritime
Guarantees of Origin
Waste Directive
Farm to Fork Strategy
ETS

Raw Material

Organic MSW
Agriculture + Livestock residues

Technology

Anaerobic Digestion + Upgrading – Commercial

Final Uses

Transport (Road and Marine)
Hydrogen production Industry –
Heat, Power Residential









Est. Gross Margin 450 – 750 €/tep



Renewable Hydrogen

Regulation

Renewable Hydrogen EU Strategy Renewable Energy Directive (RED) ETS

Technology

Electrolysis - Scaling - up Steam Reforming - Commercial

Raw Material

Renewable power and water
Biomethane
Biogas
Bionaphtha

Final Uses

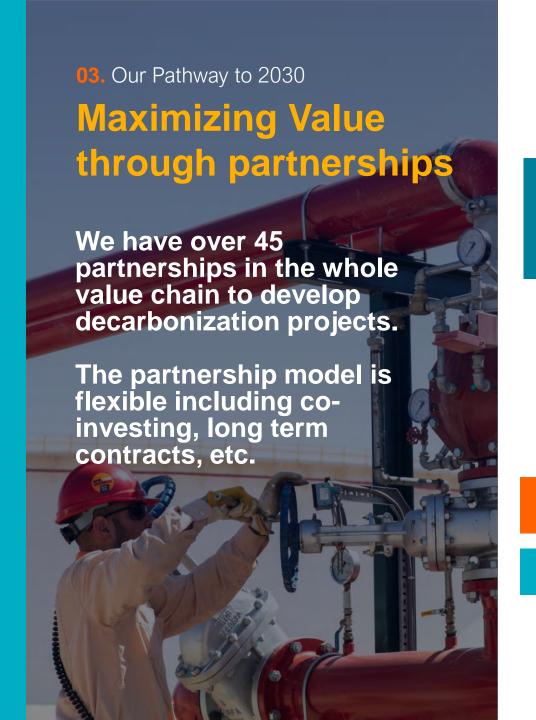
Intermediate for fuels production
Transport
Industry
Residential













Raw material sourcing and pretreatment

Technology & Operation

Final Use

Waste management and pretreatment Biomass sourcing Agriculture and livestock producers

Technologist and licensors
Technology Centers
Biomass plants operators

Airlines
Shippers
Fleet Operators
OEMs

Demo plants

Public Funding





Summary

Repsol is the **leading HVO and bio-ETBE producer in Iberia**, and **first biofuels** marketer in Spain.

We incorporate biofuels in our products since 1998.

Clear pipeline to 2025 with Cartagena advanced biofuels plant as main project ready in 1Q23.

Wide pipeline of initiatives to achieve our 2030 goals:

- Application of different technologies
- Flexibility in raw materials
- Strategic partnerships

Applying **strengths** and **know how** of the traditional business to new developments: Competitiveness, integration and flexibility.





Low Carbon Day

Investor Relations investor.relations@repsol.com

#RepsolLowCarbonDay www.repsol.com







Low Carbon Day

Chemicals - Circularity

Rafael Jiménez

Director of Polyolefins





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01.

Repsol Chemical Business Overview

02.

Repsol Chemical Business Strategy

03.

Chemicals Transformation - Circularity

- Targets
- Roadmap
- Projects and value chain

04.

Executive summary





O1.
Repsol Chemical
Business
Overview









3

Main highly integrated & flexible petrochemical sites in Iberia

2,800 kt/y

Sales

>1,000

Relevant customers

High complexity production & logistics

~350 different grades / lean production / multi-modal delivery

~550 м**∉**у

Average EBITDA 2015-2020

~20%

Average ROACE 2015-2020

~2,000

Staff

>85 countries

Sales

~900 м**∉**у

Projected **EBITDA** 2021

~35 %

Projected ROACE 2021

~1,700 м€

Capital employed

~15th

World producer high value products (PO/ Polyols, EVA)

* JV Dynasol

50/50 strategic Alliance between Repsol and KUO (Mexico) in synthetic rubber business plants in Europe, LATAM and China ~100 m\$/y

Average EBITDA 2016-2020

310 kt/y

Sales 2020



01. Repsol Chemical Business Overview

Diversified Portfolio committed with improving Life Standards and with Energy Transition

Naphtha Light Feedstock **Crackers**

Ethylene

Propylene

Polypropylene

Injection, fiber, film, pipe, compounds, auto,

Butadiene

DERIVATIVES: Polystyrene,

Cover of electrical appliances,

packaging, construction, toys and household, automotive

Rubber, UPR Resins and

Copolymers

Styrene

Rubber

Benzene

Polyethylene

High Density Polyethylene (HDPE), Metallocene PE

Blow moulding, fiber, pipe, cable, layers, film

Low Density Polyethylene

Film, agriculture, coating, pipe,



(LDPE)

cable





Polypropylene (PP)

pharma





Polyols / Glycols

Polyols Applications. POLYURETHANES

Flexible foam, rigid foam, non-cellular Polyurethanes



MPG USP/ EP applications

Pharmaceutical applications, food, feed, cosmetics



Rubber

Asphalt modificators, waterproofing, adhesives and sealants, plastics modification, technical compounds, footwear...







Many low-carbon technologies rely on innovations in chemistry to become more efficient, affordable and scalable

Chemicals are key

Efficient building envelopers	11%
Lightweight material	4%
Fuel efficient tires	2%

Chemicals relevant

Wind & Solar Power	50%
Electric cars	21%

Little influence

Efficient lighting 12%

CO₂ emissions reduction in each area due to the use of chemicals; weight on total Study "The essential role of chemicals", ICCA



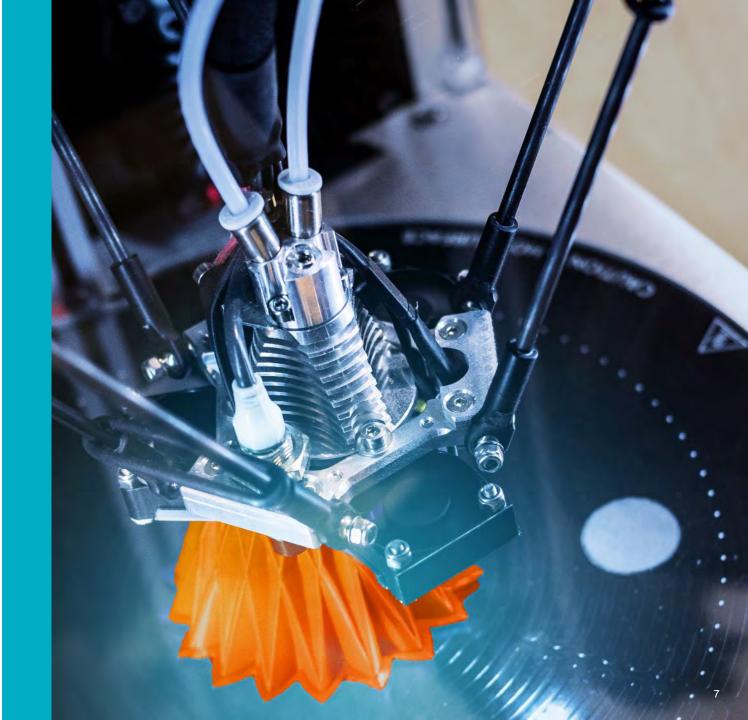
The Repsol Commitment





02.
Repsol Chemical
Business
Strategy





02. Repsol Chemical Business Strategy



Repsol Chemicals Strategy: Opportunity for profitable growth through 3 levers



Integrate (Should do)

Reinforce our position, with Higher Integration



OPPORTUNITY to **evolve** to a **more resilient and profitable business** through **horizontal and vertical integration**



Expand (Could do)

International growth with added value



OPTIONALITY for **additional growth** in high attractive market, aligned with **energy transition**, where Repsol could **accelerate decarbonization**



Transform (Must do)

Transform Chemicals through De-carbonization, Differentiation, Digitalization and Circularity



NEED to transform Repsol Chemical business, adapting it to Industry Trends: Digitalization, Circularity, Differentiation, Flexibility... transforming it to a more profitable business with higher competitive advantages and entry barriers.

De-carbonization & Efficiency & Flexibility

Differentiation

Digitalization

Circularity

Reliability

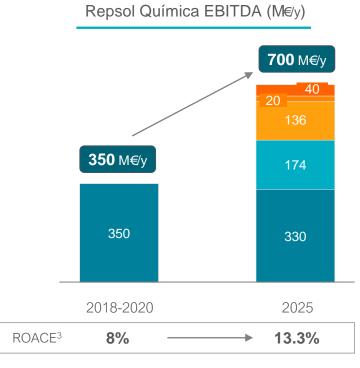
Safety & Environment

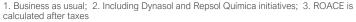


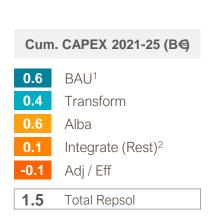
02. Repsol Chemical Business Strategy



Repsol Chemicals Strategic Plan targets growth in EBITDA by 2025 in a stable medium-low margin scenario









Transform and integrate the current business to increase **Repsol Química EBITDA by ~2x in 2025** in a stable medium-low margin scenario



Optional Opportunities to invest with high return and double capital employed, improving ROACE from 8% to more than 13%



Boost Business Value due to a more solid business

- Integration and flexibility building resilience
- Robustness and efficiency of the operation
- Diversified footprint with differentiated products and geographies







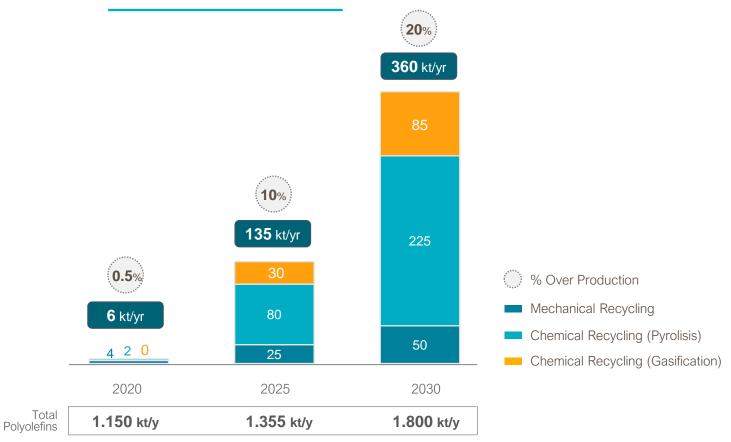




Target: Recycling equivalent to 20% of our polyolefins production by 2030





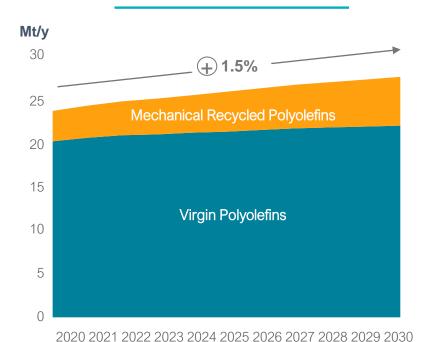


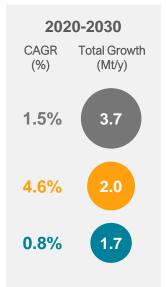




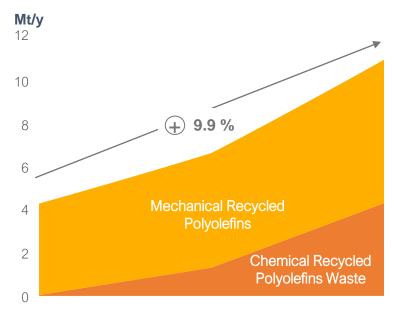
Polyolefin Market in Europe will be growing at healthy rates (both Virgin and Recycled) over next decade

Polyolefins Demand in Europe (2020-2030)





Recycled Polyolefins Demand in Europe (2020-2030)



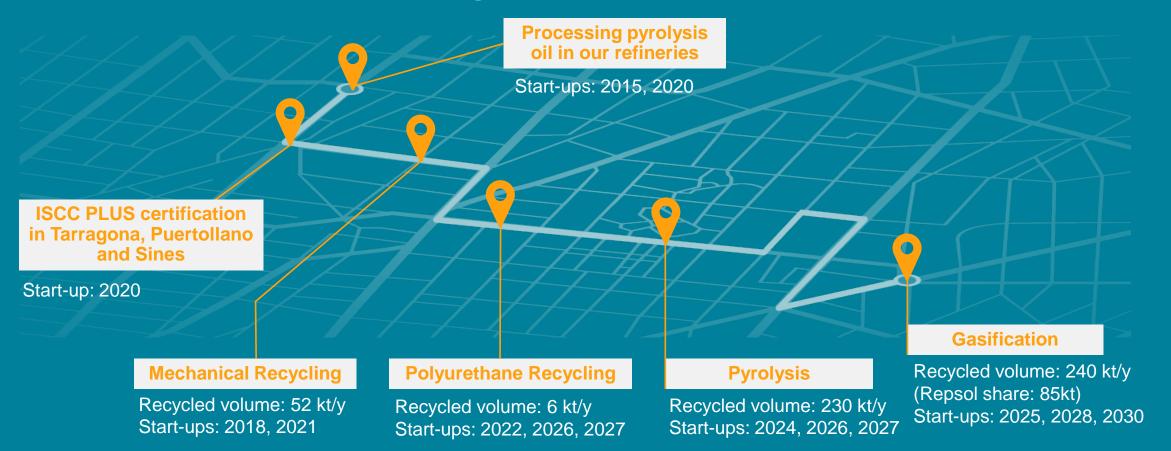








Roadmap to reach our targets



TOTAL CAPEX: ≈€1,400 M (Repsol Equity €665 M - unlevered)





Projects and value chain

	WASTE	TECHNOLOGY	PRODUCTION	MARKET
RECICLEX® Mechanical	High quality post-consumer waste	Mechanical Recycling	 Repsol Compounds Plants: Monzón PP & Puertollano PE Reciclex compounds production in ACTECO 	 Polyolefins that incorporates recycled material Usual polyolefin market (packaging, auto, etc.). Currently sales to 20 customers
RECICLEX® Circular	Plastic mix High quality CSR	Chemical Recycling PYROLYSIS	 Crude processing in Puertollano and free allocation to products by mass balance. In project: Pyroplast; FCC Puertollano; Tarragona's crude; Direct Styrene. 	 Circular polyolefins with ISCC PLUS certification (3 certified complexes) Currently sales to 10 customers
ECOPLANTA® ecoplanta HOLECULAP RECYCLING SOLUTIONS	Urban solid waste	Chemical Recycling GASIFICATION	 Ecoplanta integrated in Tarragona site The extension of the model to other sites is in the conceptualization phase 	 Methanol: RED II fuels; Chemical Industry, Marine fuels Methanol-to-Olefins under evaluation
RECPUR	Industrial/ Clients residues Mattress foam waste	Chemical Recycling ACIDOLYSIS	 New plant at Puertollano for production of polyols 	 Polyols incorporating recycled material for the foam market in the comfort sector in Europe. Agreement with 6 key customers for product homologation and formulation adjustment.



Repsol RECICLEX® Mechanical Recycling

Description

Develop a new range of polyolefin-based products that incorporate a variable percentage of recycled plastics in their formulation, without losing the properties of the virgin material in the application.



TARGET

Achieve sales of **100 kt/year** (50% average recycled content) of Reciclex Compounds by 2030



New product properties



Up to 70% recycled content More than 20 grades



Many applications (non food contact):

film, packaging, injection, blow, moulding, and others.



Constant quality and homogeneity, similar properties to virgin grades



Traceability Certificate UNE-15343



100% recyclable



Up to -40%

Carbon footprint reduction

Partnerships



Project to increase the capacity of the recycled materials produced by Acteco in Alicante.





















Repsol RECICLEX® Circular: Chemical Recycling - Pyrolysis

Description

To develop a new range of circular plastics from plastic waste, not mechanically recyclable, with the same properties as products made from fossil raw materials.







TARGET

Recycle **225 kta of plastic waste** into pyrolysis oil for the development of circular polyolefin by 2030.



New product properties



Raw material 100% recycled plastic



Complete Repsol range in all applications, with same properties



Suitable for food, hygiene and medical use



3 sites ISSC Plus certified with mass balance



100% recyclable



Low carbon footprint



Pyrolysis oil approach & partnerships



1. Production

Since 2015 supplying pyrolysis oil into Puertollano site. Now we are in the process of developing pyrolysis oil suppliers.



2. Purification I Pyroplast Project

Repsol, Axens and IFP developed and patented process to enhance the chemical recycling of plastic waste - **RewindTM Mix**



3. Marketing

Repsol signs agreements to supply main European food packaging producers with ISCC Plus Certified Circular Polyolefins. We are able to supply premium Polyethylene or Polypropylene grade as well as styrene to our customers



Polyurethane Recycling RECPUR

Description

Developing a new range of **RECYCLED POLYOLS**.

RECPUR closes the cycle of the Circular Economy of Polyurethane:



Processing the waste



Our customers can incorporate recycled product in their process



"Plastic-to-plastic" process



Polyol with lower CII (Carbon Intensity Indicator)



TARGET

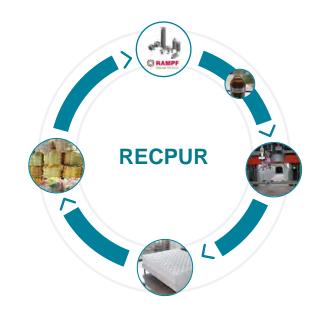
Achieve 15% of polyols for the Comfort Market with recycled origin by 2028.

Being a "First Mover"



Concept

The foam residue (2 kt/y) is fed to a chemical recycling plant to produce "polyol of recycled origin" (5 kt/y) which is then incorporated into the customer's formulation to produce foam again to manufacture new mattresses or furniture.



Partnerships



RAMPF Eco Solutions based in Pirmasens, Germany, is an expert in chemical solutions for the manufacture of high-quality recycled polyols

RECPUR locations







Waste-to-Chemicals ECOPLANTA®

Description

Repsol will join the Ecoplanta® project, together with the technology leader Montreal-based firm Enerkem and Agbar, a global expert in water and waste management, to build a waste to chemicals plant in Tarragona.

The plant will process municipal solid waste to produce methanol, that will be used as raw material to produce circular materials or advanced biofuels, contributing to avoid 200 kty of CO₂ and reducing the waste that ends up in the landfill.



The proposed location is **Tarragona** where various synergies will leverage the proposal



Circularity- waste to chemicals

- Reduction of landfill of 390kt of MMW (Mixed Municipal Waste)
- No competition with food supply
- No land use impact

Strengthen Tarragona Complex

- Tarragona has a high rate of landfill
- Synergies with Repsol Quimica
- Potential valorisation of Repsol's land

Suitable for EU funding

- The project can ask for funding in the European Union subsidy package
 - Innovation Fund (up to €90 M)
 - Recovery Fund

TIER 1 Partners

- **Enerken**
- Technology leader
- ≋ Agbar
- Waste management leader

Innovative and proven technology

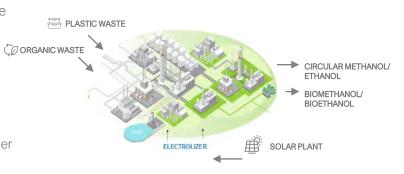
- Gasification technology
- Most developed technology in waste to chemicals

Circular and Bio products

- Interesting premium for Biomethanol
- Possible chemicals route via ethanol production

Option of Green H₂

- Requirement of 2.7 t/h H₂
- Opportunity for green H₂ project
- Low carbon footprint



390 kt/y mixed municipal waste



220 kt/y Methanol

Repsol Reciclex® Circular Advanced Fuel



Repsol Roadmap includes the extension of the project, with feasibility studies for Sines and Puertollano



Executive summary

Circularity is going to be a must for the chemical industry:

- Chemical products contribute to reduce GHG emissions
- The European virgin polyolefins market grows at 0.8% and the recycled at 9.9% CAGR
- There will be **new business opportunities** in circularity
- Repsol is well positioned for recycling as our petrochemical sites are well integrated
- We have been one of the first European chemical producers feeding pyrolysis oil into our system and marketing circular polyolefins
- Repsol has the target of recycling 20% of our polyolefins production by 2030
- To do that, we have a clear roadmap with four main projects to invest €1,400 M (Repsol Equity €665 M unlevered) with different technologies and partners, and we continue developing new projects to reach our recycling goals in 2030





Low Carbon Day

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#RepsolLowCarbonDay www.repsol.com









Low Carbon Day

Hydrogen business strategy

Tomás MalangoDirector of Hydrogen





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O1.Hydrogen market vision

02. Repsol position

03. Ambition

04.Business roadmap





01.

Hydrogen market vision



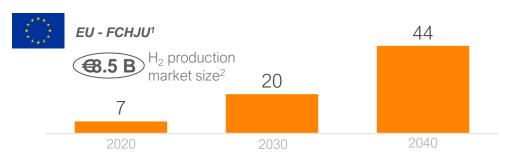


01. Market Vision

Strong hydrogen market growth



EU hydrogen demand – Market forecasts (M tons/yr)



Ambitious H₂ development targets in the EU and Spain, supported by public and private funding



Spanish government supports deployment of low carbon
H₂ under EU funds, with €1.55 B before 2024



- Strong 2030 penetration targets
 - Min. 50% share of renewable H₂ consumption in industry
 - 2.6% minimum quota of RFNBO³ in transport
 - 0.7% e-fuels share in the aviation fuel mix (5% in 2035)
- Discount tax rates for the use of renewable and low-carbon hydrogen for end-consumers (based on energy content)

4 Further regulatory support still in progress

- Economic incentives to ensure low carbon H₂ competitiveness
- Secondary regulation for H₂ and the 3rd Gas Package review including the contribution of H₂ to decarbonization of gas markets to be launched in December.
- Technical requirements for production of H₂ and derivatives (e.g. renewable energy feed criteria, requirements on CO₂ for e-fuel production, etc.)

- 1. EU-FCHJU forecast (Fuel Cell and Hydrogen Join Undertaking)
- 2. Market size estimated with 1.3 €/kg full grey (incl. capex) H2 production cost (assuming natural gas cost of 20 €MWh and excluding CO2 price)
- 3. Renewable Fuel of Non Biological Origin H2 and H2 derivatives (e.g. e-fuels)



Market Vision

competitive

more

competitive

H₂ less



Industry & transport lead market for renewable H₂

Industrial processes and heavy vehicles are the most promising short-term applications

Market development driven by low carbon H₂ competitiveness and lack of alternatives – 2030 view

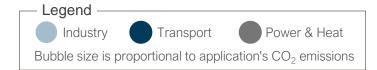
Long-term H₂ penetration to be driven by Lead H₂ development in the short term regulation and technology supported by regulation Refining Chemicals (Incl. RED II) Marine Aviation Industrial H₂ in Heavy heat Vehicles (Incl. RED II) Grid blending H₂ in Light / (Incl. RED II) Marginal use Minimum H₂ presence

Competitiveness of H₂ vs decarb alternatives (2030)

Large cost gap vs. incumbent

Competitiveness vs incumbent (2030)

Cost parity vs incumbent





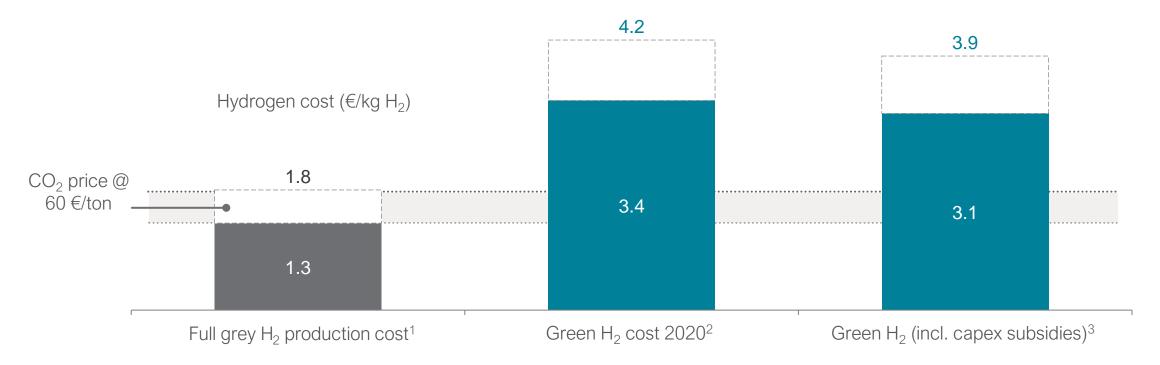
01. Market Vision



Regulatory support & Refining competitiveness

EU regulation (RED II&III) can bring competitiveness to renewable H₂ produced for refineries

Industrial processes: competitiveness achieved in refining due to H₂ for fuel production being included as part of renewable targets in transport



^{1.} Natural gas price 20 €/MWh; range corresponds to CO₂ price (from 0 to 60€/ton)



^{2. 100} MW electrolyser, 1200€/kW of CapEx (full project costs incl. electrical connection, civil, intermediate storage, project costs), 65% electrolyser efficiency,

^{~70%} load factor, range corresponds to power price between 32 and 50€/MWh; additionally considers 6.4€/MWh grid toll.

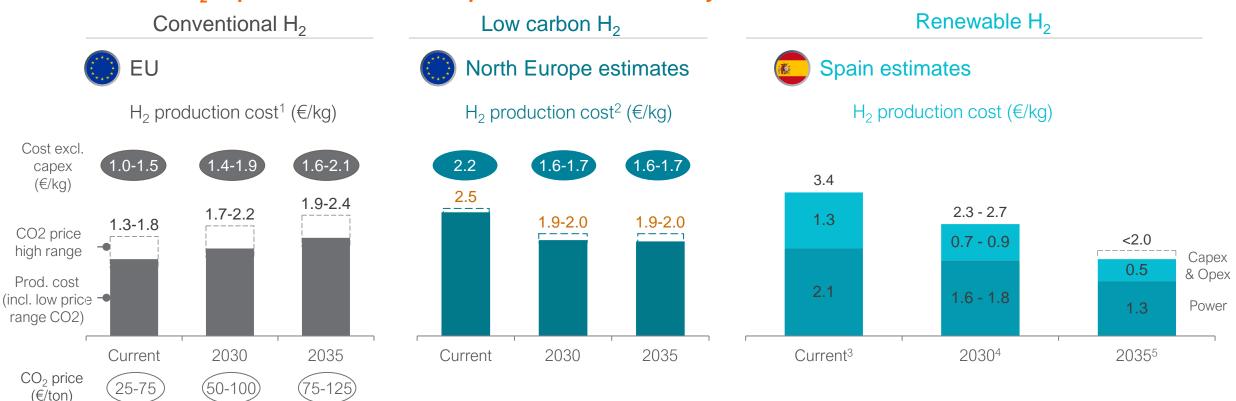
^{3.} H₂ capex subsidies 25% : effective capex 900 €/kw (Total capex 1200 €/kw)

Market Vision

REPJOL

Hydrogen competitiveness

Low-carbon H₂ expected to become competitive vs incumbent by 2030-35



- 1. 20 €/MWh natural gas price
- 2. Considers carbon capture of 90% of total CO₂ produced
- 3. 100 MW electrolyser, 1200€/kW of CapEx (full project costs incl. electrical connection, civil, H₂ intermediate storage, project costs), 65% electrolyser efficiency, ~70% load factor, electricity price 32€/MWh, 6.4€/MWh grid toll.
- 4. Low range: 100 MW electrolyser, 579€//kW CapEx, 68% efficiency, ~70% LF, electricity price 25 €/MWh, 6.4€/MWh toll; high range: 100 MW electrolyser, 760€//kW CapEx, 68% efficiency, 70% LF, electricity price 30€/MWh, 6.4€/MWh toll.
- 5. CapEx 400 €/kw, 68% efficiency, LF ~70%; electricity price 20 €/MWh, 6.4€/MWh toll, OpEx 24 €/kW





02.
Repsol position





02. Repsol Position

Repsol competitive advantages



Leveraging sources of competitive advantage...



Main H₂ consumer (largest in Spain, and >5% share in the EU)

Early entry @ scale

Large potential scale

... driving a differentiated market position

Lower costs for H₂ and e-fuels





Industrial asset base and capabilities

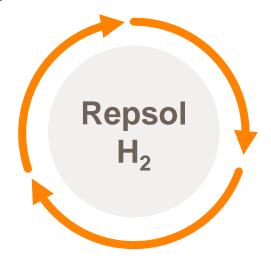


Integrated position

- Renewables
- Commercial



Iberian location – access to lower cost renewable



Unique value proposition to end-customers



E-fuels



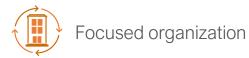
Ability to attract partners

- National
- International
- Technology



Regulatory clout and presence





Attractive equity story





02. Repsol Position

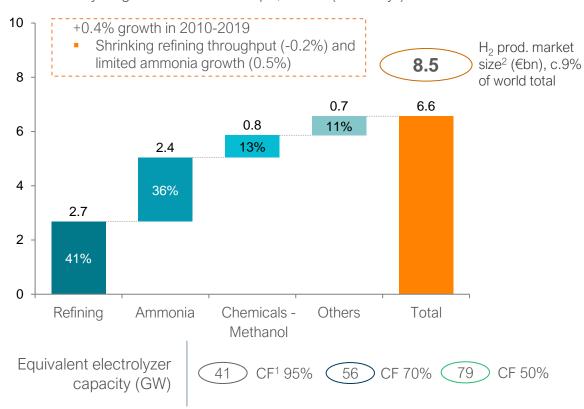


Hydrogen consumption in Europe & Spain

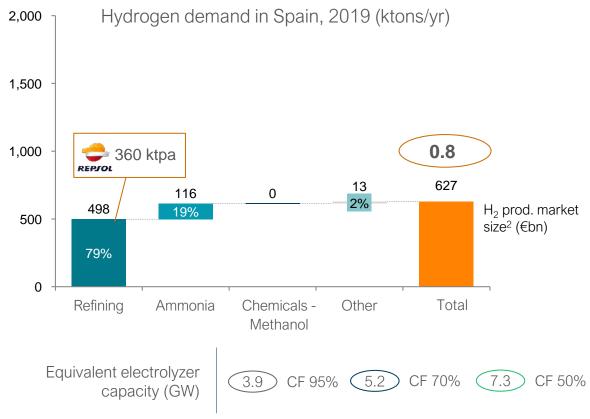


Europe's H₂ market (~6.6 M tons/yr, €8.5 B) represents c.9% of world market and is concentrated on ammonia and refinery uses

Hydrogen demand in Europe, 2020 (M tons/yr)







. Capacity factor; Electrolyzer efficiency ~65%

Market size estimated with 1.3 €/kg full grey (incl. capex) H₂ production cost (assuming natural gas cost of 20 €MWh and excluding CO₂ price) Source: IEA: Nexant

02. Repsol Position

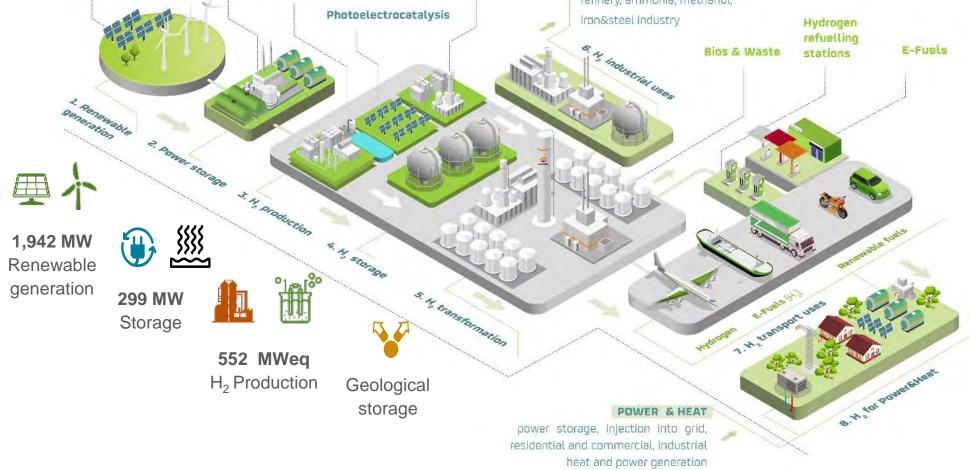
H₂



Present throughout the value chain









1. Note: figures as of 2025



03.
Ambition





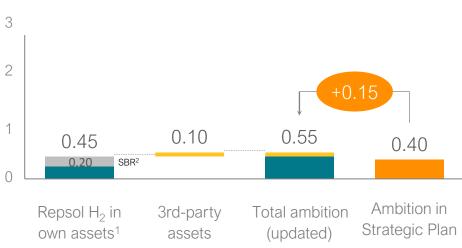
03. Ambition



Current ambition aligned with "Fit for 55" targets

2025 objective

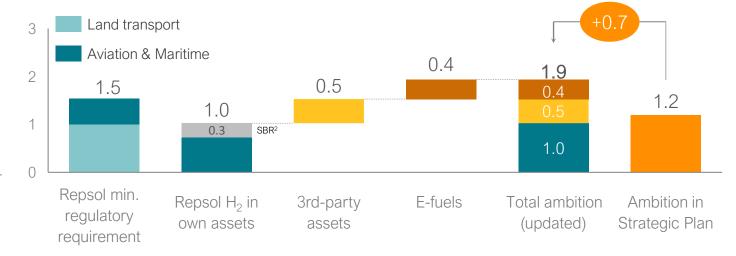
H₂ capacity objective, 2025 (GW)



- Deployment of electrolyzer capacity in own refineries to develop experience and scale
 - Developing H₂ hubs around own sites
- Participation in pilots with 3rd-parties to develop positioning and know-how in new applications

2030 ambition

Required H₂ capacity vs. ambition, 2030 (GW)



- Fit for 55 proposal strongly support renewable H₂ development in Europe:
 - Transport: 2.6% minimum quota of RFNBO³ for all transport modes and minimum quota of 0.7% of e-fuels used in aviation by 2030 (5% by 2035)
 - Industry: 50% minimum share of renewable H₂ used for final energy and non-energy purposes in industry
- Current H₂ ambition in own-assets achieves minimum regulatory targets
- E-fuels plant to strengthen Repsol H₂ position and increase market share in a highly synergetic long-term business line
- Third party volumes to cover additional industrial needs

The Repsol Commitment

Net Zero Emissions

by 2050

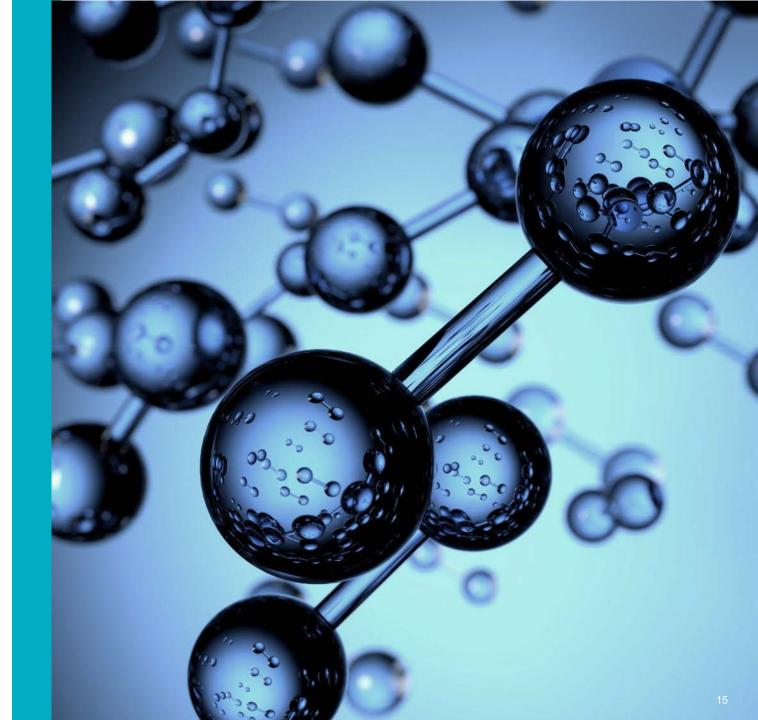
^{1.} Including the e-fuel pilot plant in Petronor

^{2.} SBR: Steam biomethane Reforming, renewable hydrogen production from biomethane

^{3.} Renewable Fuel of Non Biological Origin – H₂ and H₂ derivatives (e.g. e-fuels)

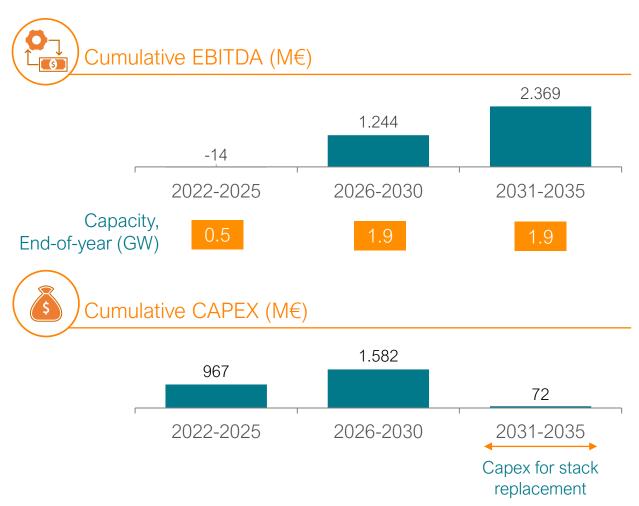






REPSOL

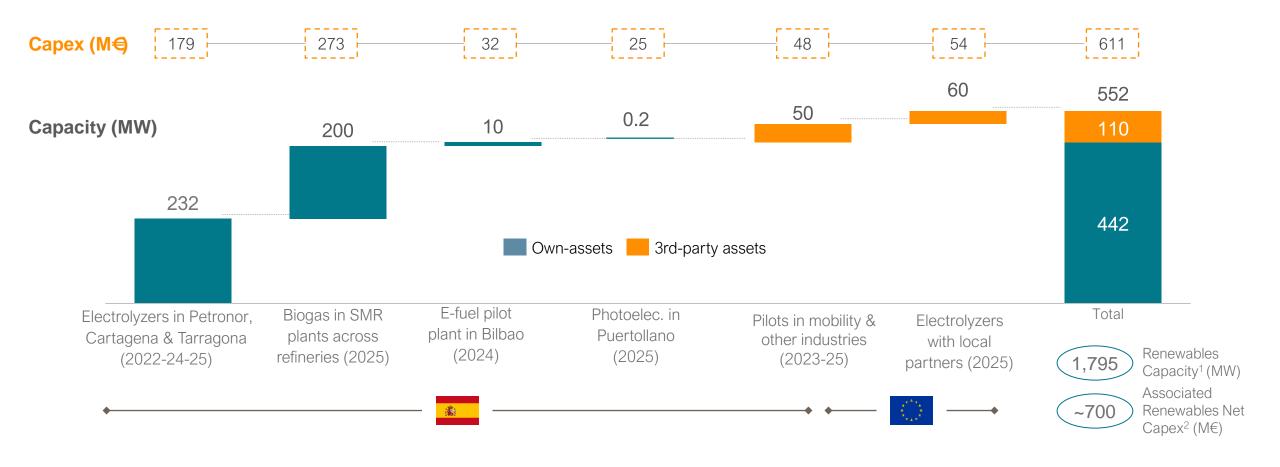
Key financial metrics





REPSOL

Pipeline of projects up to 2025



^{1.} Assumes sizing of 3.25 MW renewable generation capacity per MW of electrolyzer (70% of Renewables power generation is dedicated H2 production, with the rest fed to the grid); Gross capacity assumes 100% of renewables development in projects in which Repsol's stake is >=50%.



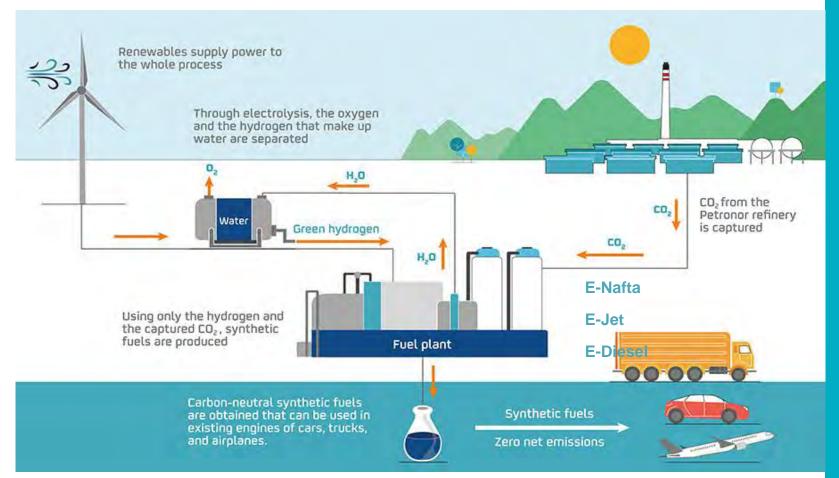
^{2.} Renewables Capex assumptions: 2022-2025-> Solar: 595 €/kW Wind: 920€/kw.

Note 1: Capacities assume a 95% capacity factor;

Note 2: Equity share between 50% and 100% in projects deployed in Repsol refineries before 2025. Equity share for projects deployed in third-party assets in Spain of 50%. Equity share for international projects of 30%;

Production of e-fuels in Petronor

Development of worldwide reference plant to achieve commercial level and leading position in production of synthetic fuels





Investments:

Wind generation, electrolysis, e-fuels plant: €74 M

Production: 50 bbl/d

Partners











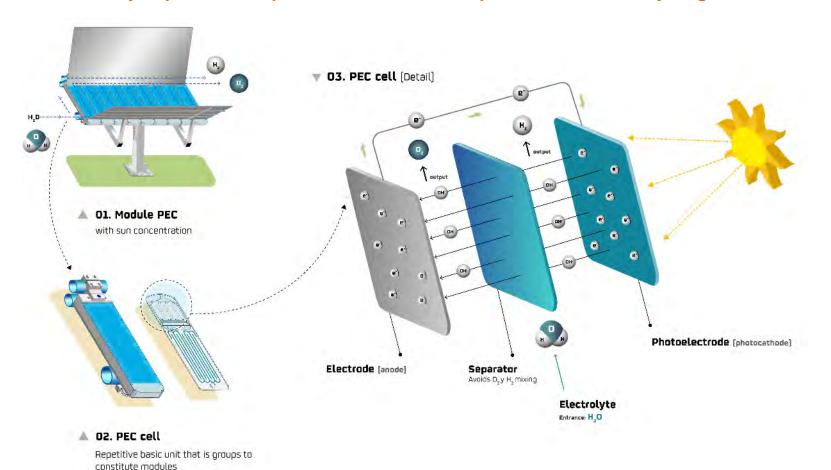






SUNRGYZE – Renewable H₂ production technology

Repsol - Enagas partnership: technological development of disruptive and photoelectrocatalytic process for production of cost-competitive renewable hydrogen

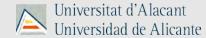




- 100% renewable
- 100% CO₂ reduction vs conventional hydrogen.
- Based on the direct conversion of solar energy into chemical energy
- Collaboration with different public and private entities









 Co-funded by European Regional Development Funds (FEDER) and EU Innovation Fund











Spanish Hydrogen Network (SHYNE) Project

Repsol with great strengths to be the backbone of the Renewable Hydrogen roadmap and its sectoral integration, together with growing demand for H₂ in the coming years, and the role played by the European Funds, will lead Spanish national project.

Repsol's objective is to **develop a national project** for the deployment of the renewable hydrogen vector, supported by public-private collaboration, which will take the form of the creation/boosting of:

- 3 hydrogen valleys where they will develop specific renewable H₂ production projects and end uses in industry and transport, in addition to renewable Electricity Generation and Storage Projects.
- 2 Transversal Innovation Hubs and 1 Digitalisation and Knowledge Management Hub with R&D&I and technological development, Knowledge Management and Digitalisation projects that guarantee a sustainable economy based on this energy vector.

Multi-sectoral vision

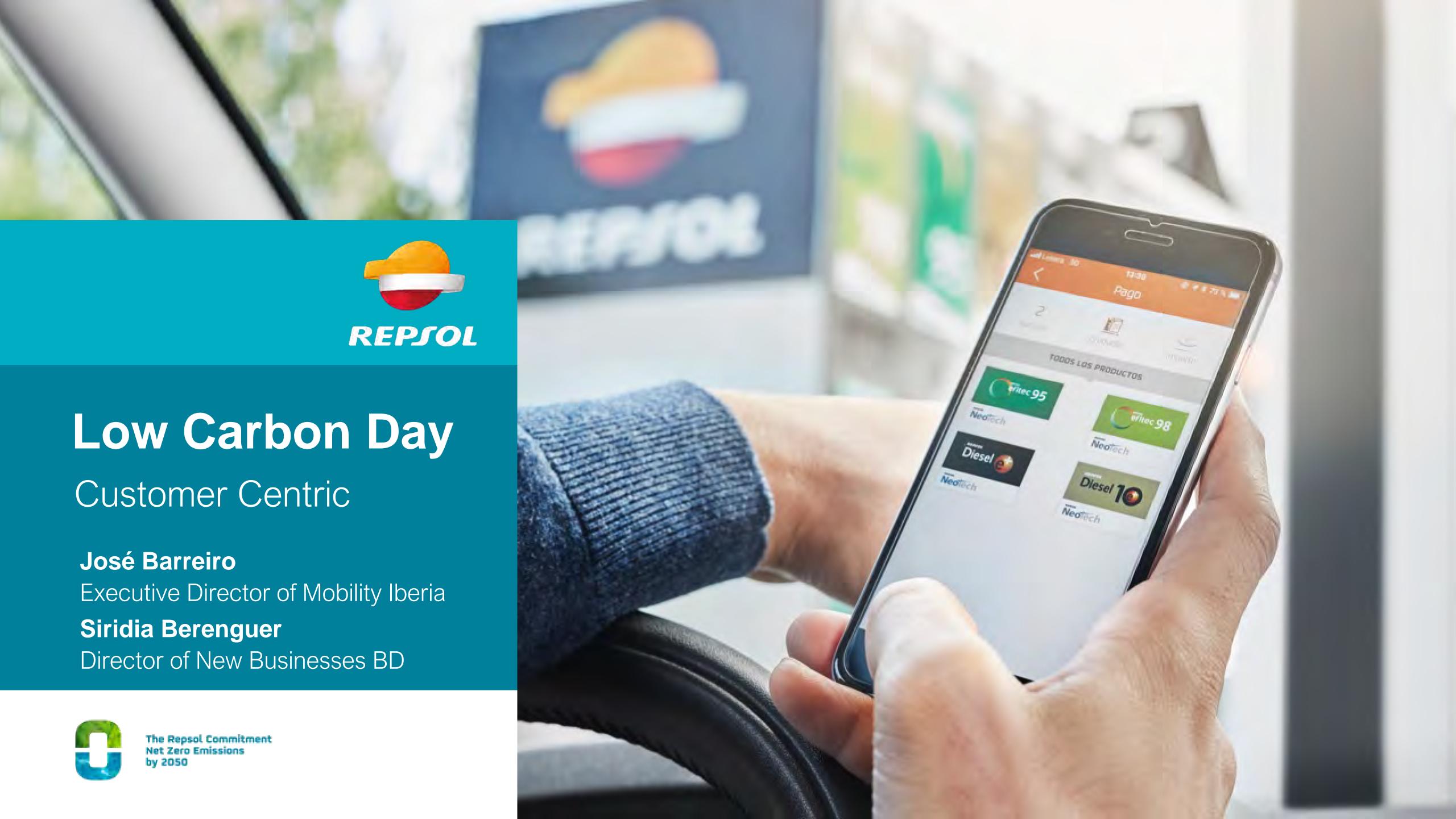
- Impacts in terms of ecology, job creation, knowledge and technological sovereignty
- Presence in 10 Autonomous Regions
- Investment of €3,230 M*

Project aligned with both the EEFF and the Spain Can Plan, especially with component 9, based on technological and sectoral diversification and a coherent systemic approach

Tractor effect of SMEs, with 40 partners involved in the project and will be conveyed through two relationship models, strategic agreements and declarations of interest, to facilitate the governance of the project and unify interests of entities from different sectors and along the value chain.

The Repsol Commitment
Net Zero Emissions
by 2050





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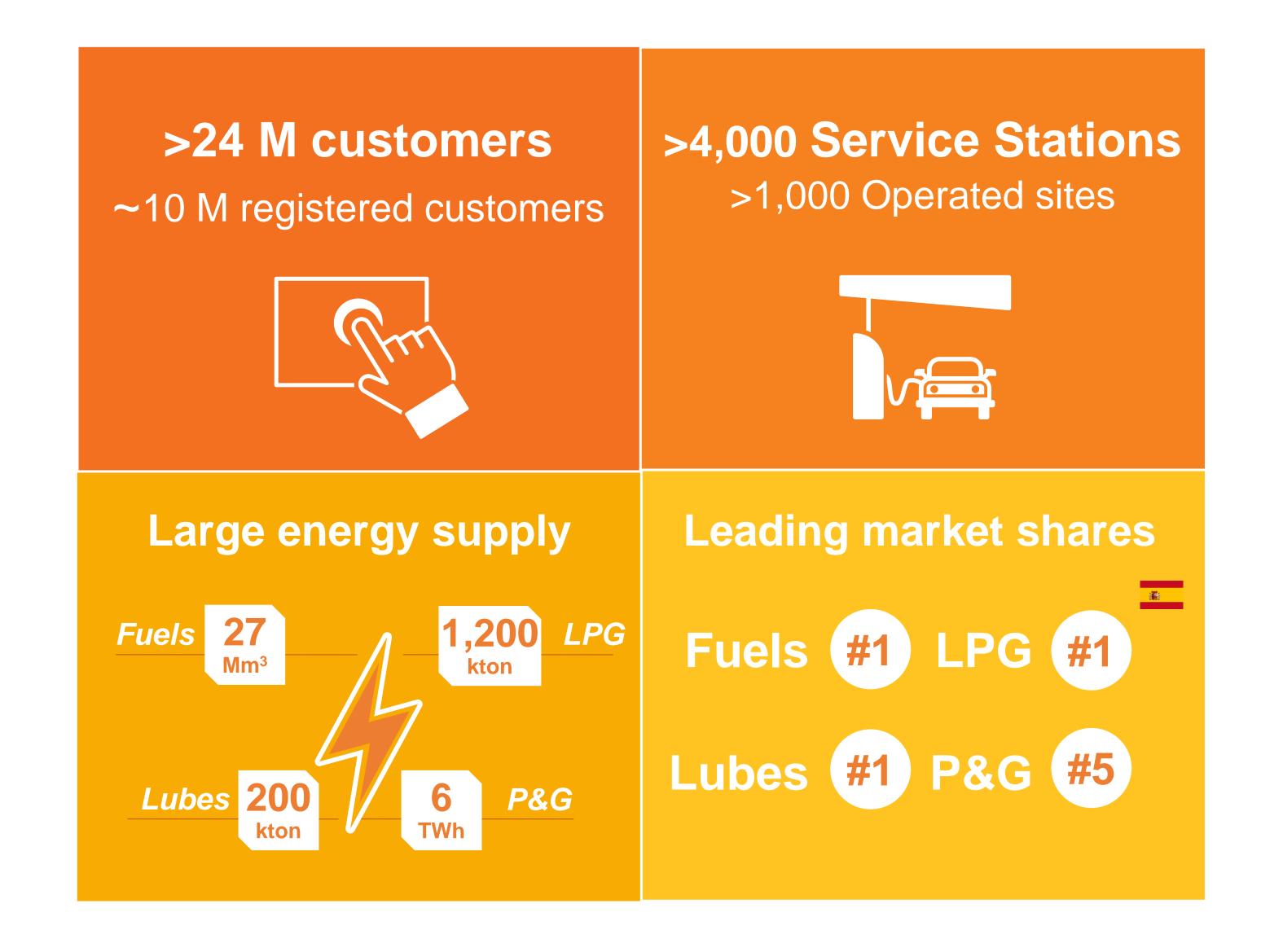
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01. Customer-centric: Introduction and Business overview



01. Customer-centric: Introduction and Business overview

Energy commercial business environment rapidly evolving underpinned by secular trends

Global Trends

Regulatory changes

Decarbonization

Increasing renewables sources & electrification

Fast technology evolution

Alternative (non-exclusive) mobility technologies





More environmental & safety concern

Digitalization

Demanding more personalized treatment

Requiring a global vision of their needs

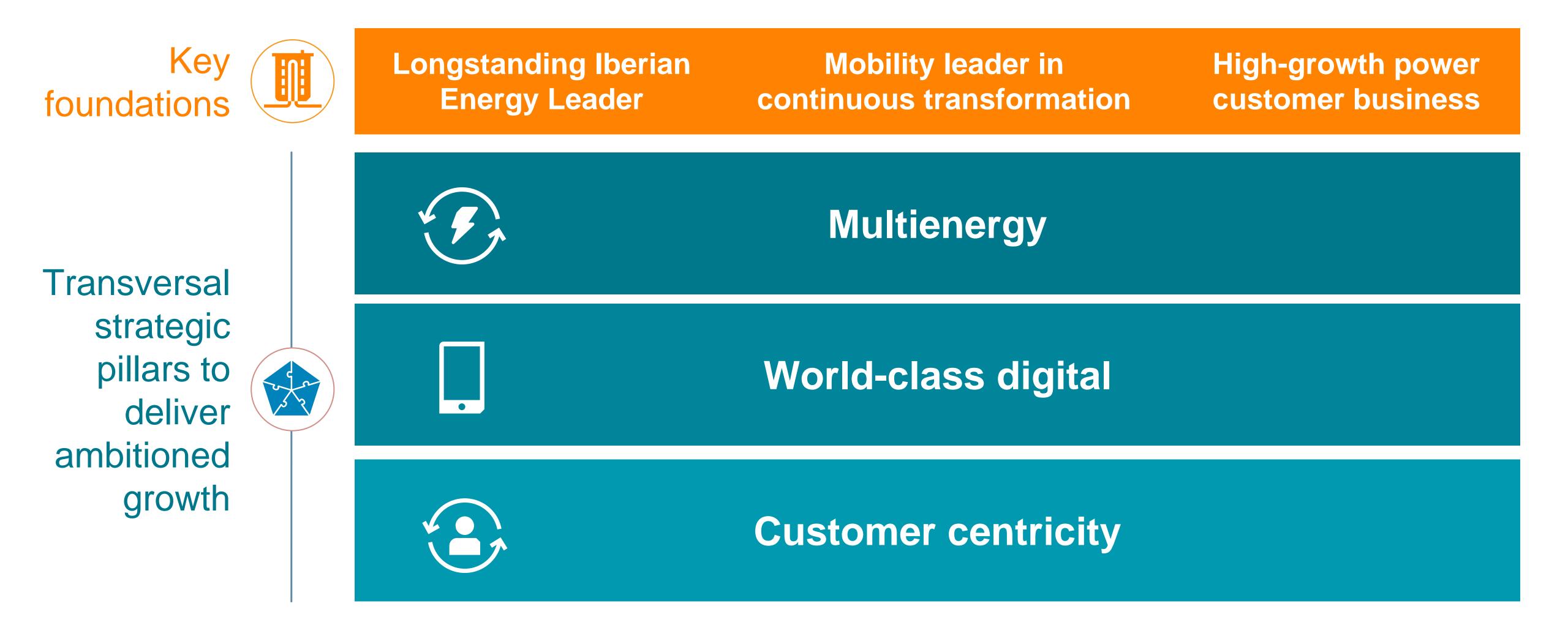
New services and business models

Changes in consumer patterns post COVID



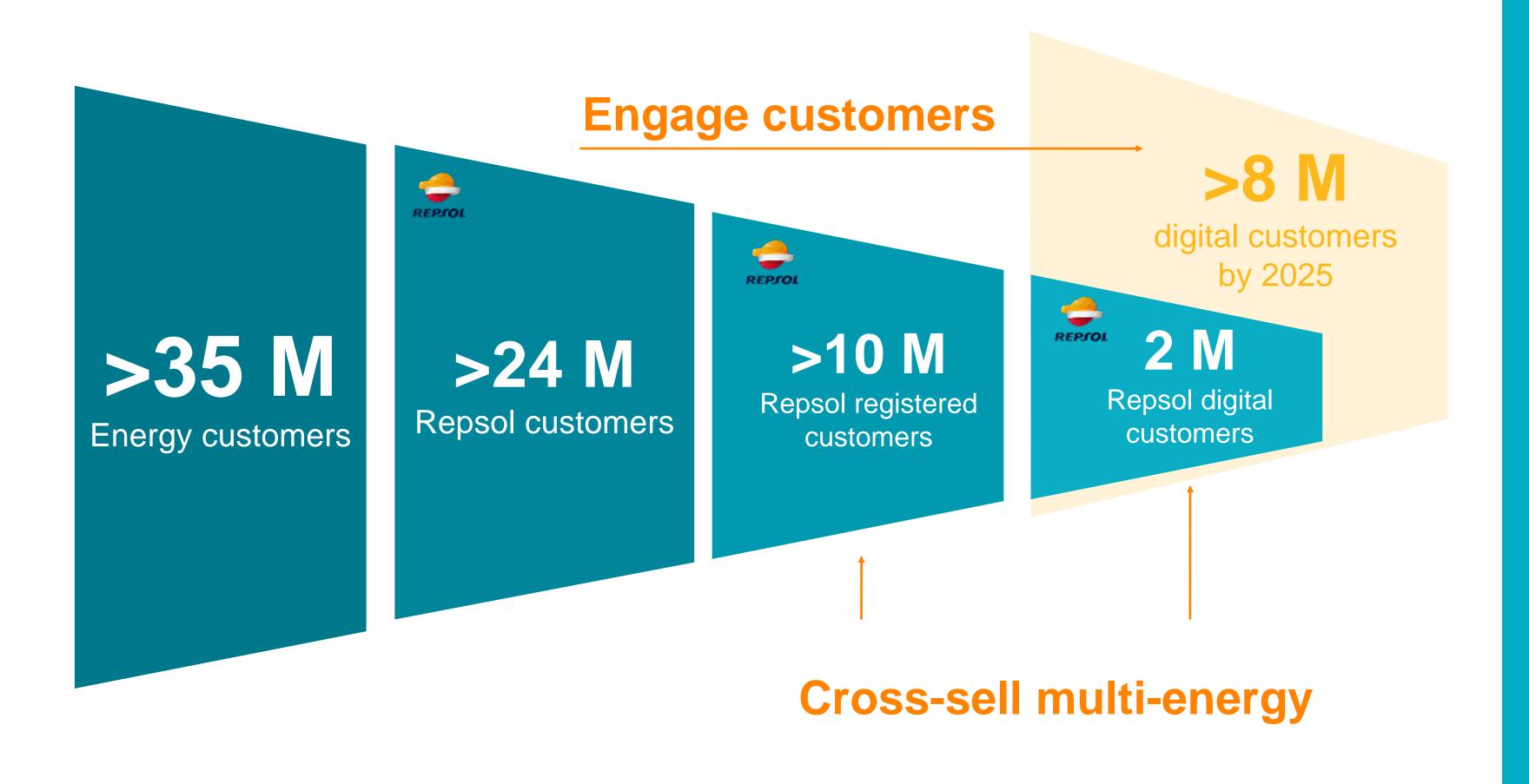
02. Customer-centric: Strategy and pillars

Customer-Centric Business Strategy 2021-25

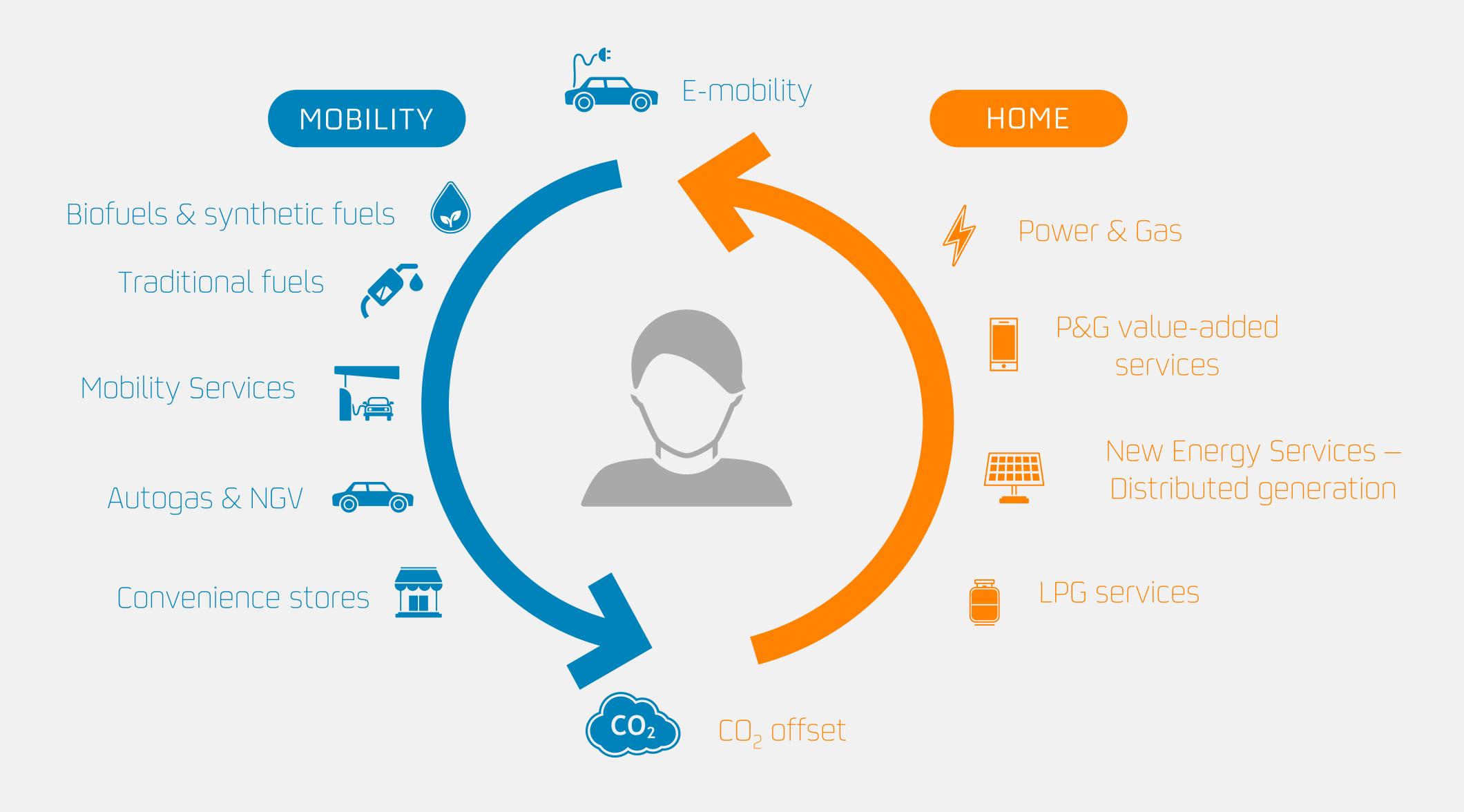


02. Customer-centric: Strategy and pillars

Digital solutions to orchestrate customer-centric multi-energy approach across customer base





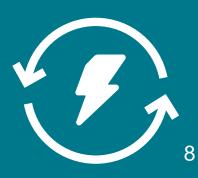


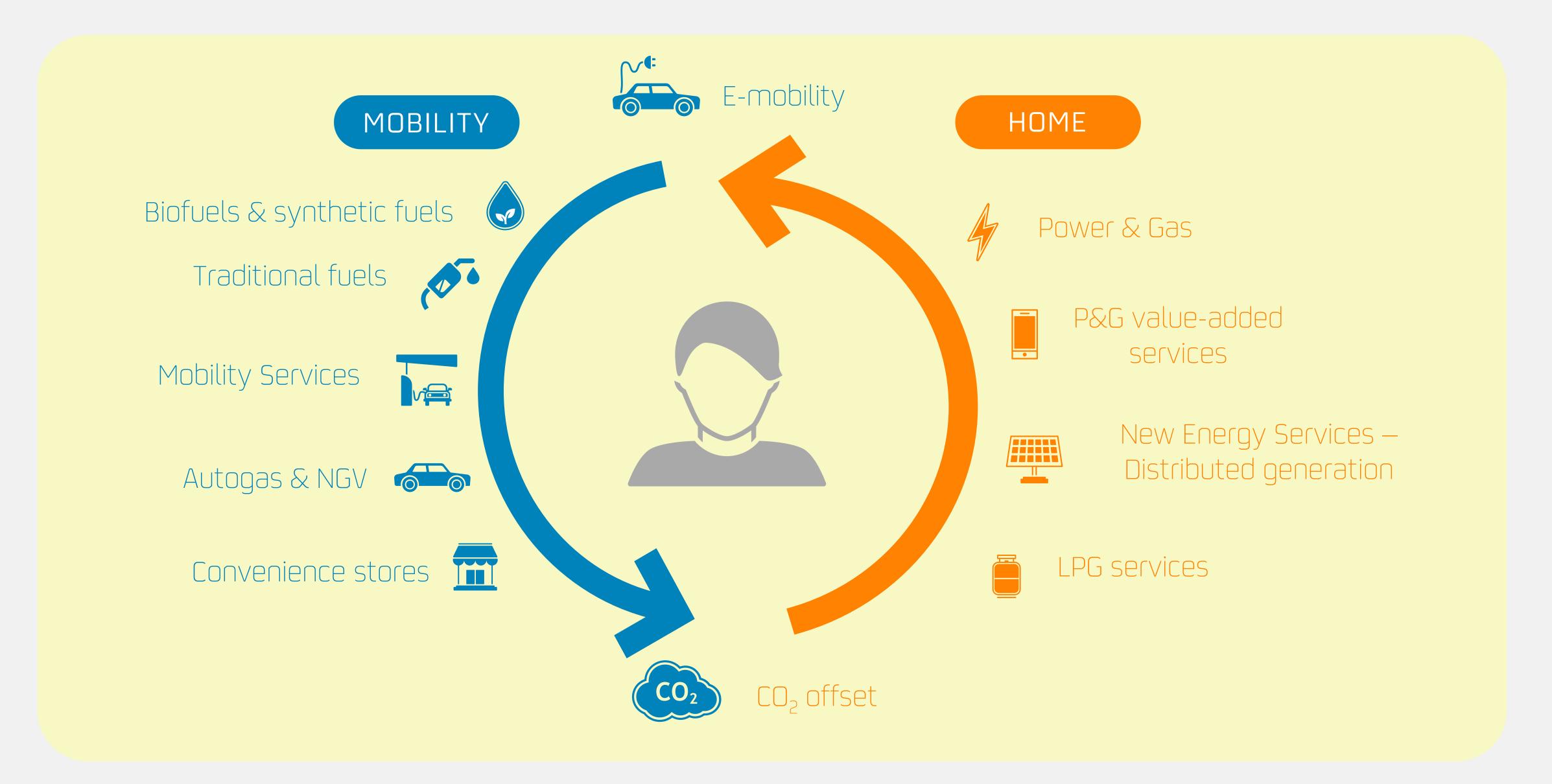






Repsol is prepared to deliver differentiation and a more holistic offering











Repsol e-Mobility holistic offering as a key competitive advantage vs competitors

Keeping our current status as the mobility service provider of choice



e-Mob @public areas



e-Mob @home



electricity @home

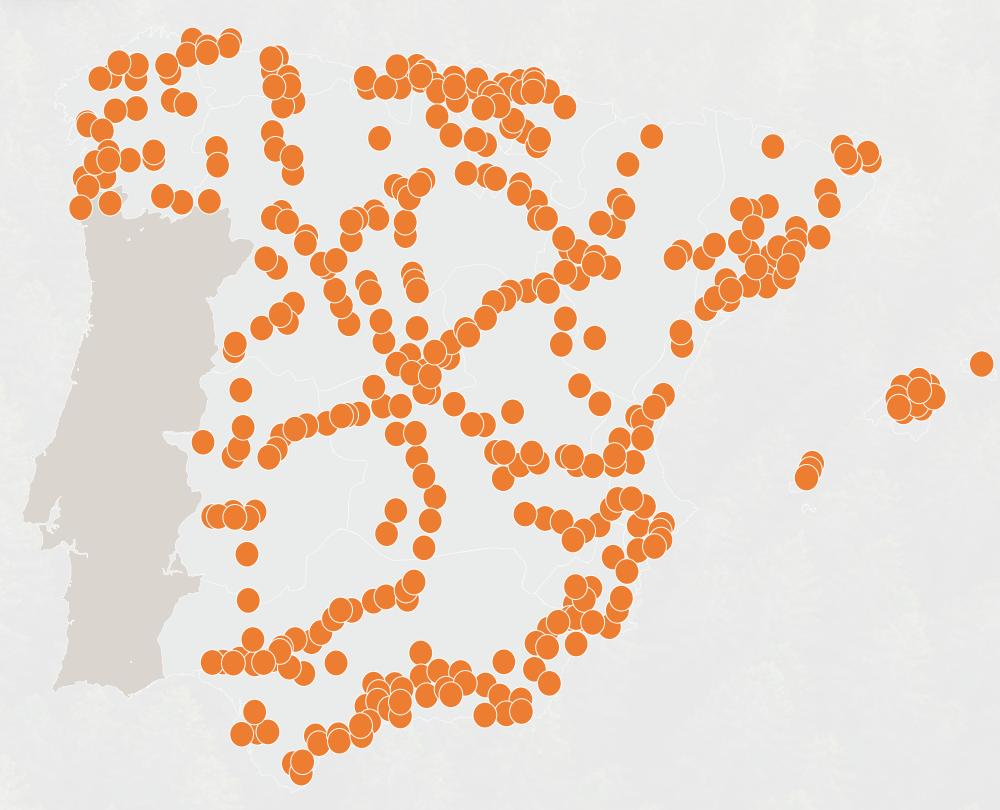
e-Mobility Repsol is committed to develop a widespread, smart, convenientlylocated charging network in Iberia focused in fast and ultrafast chargers in main transport corridors

202

Ultra / Fast chargers every 50km

+1,000

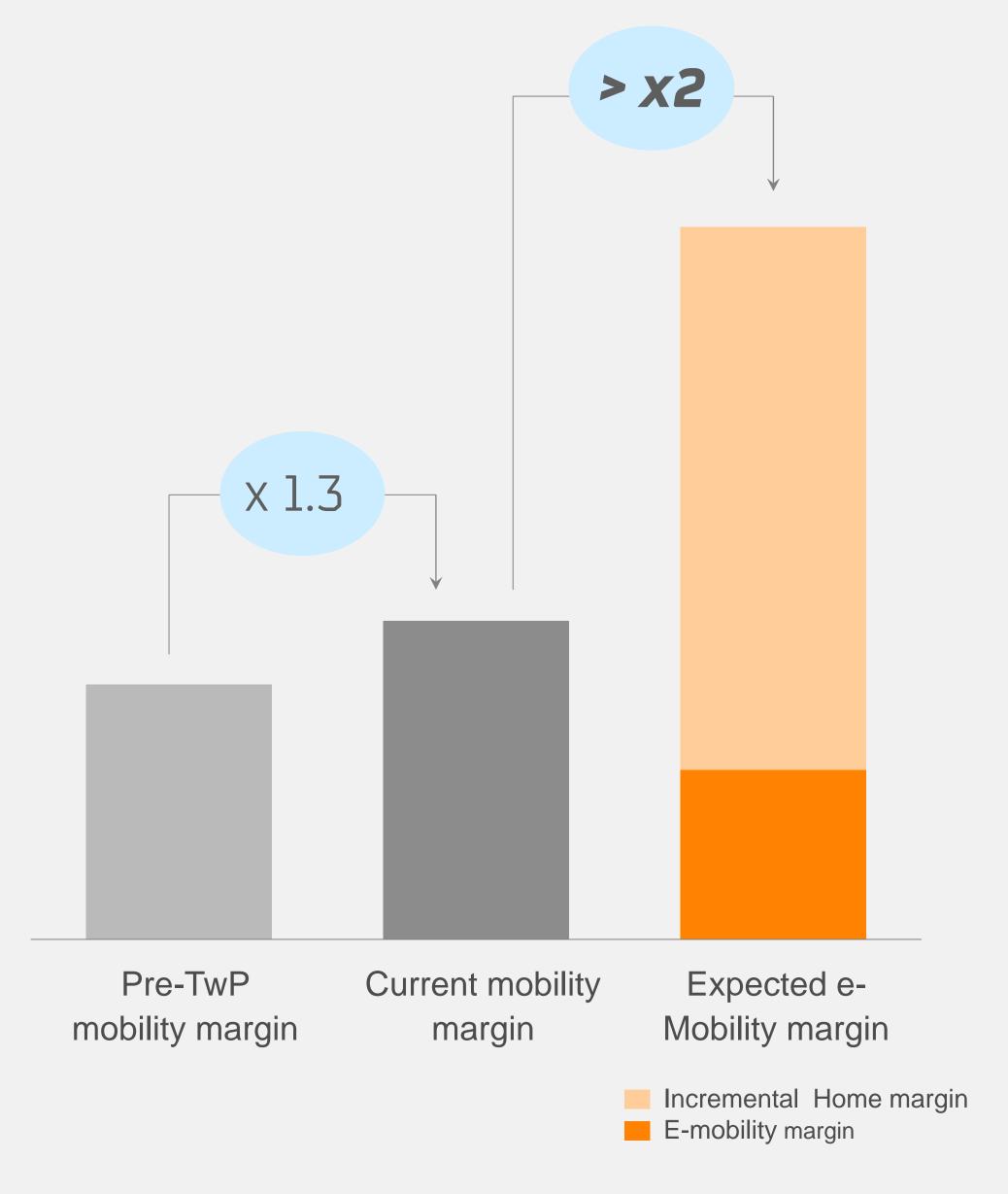
public
chargers



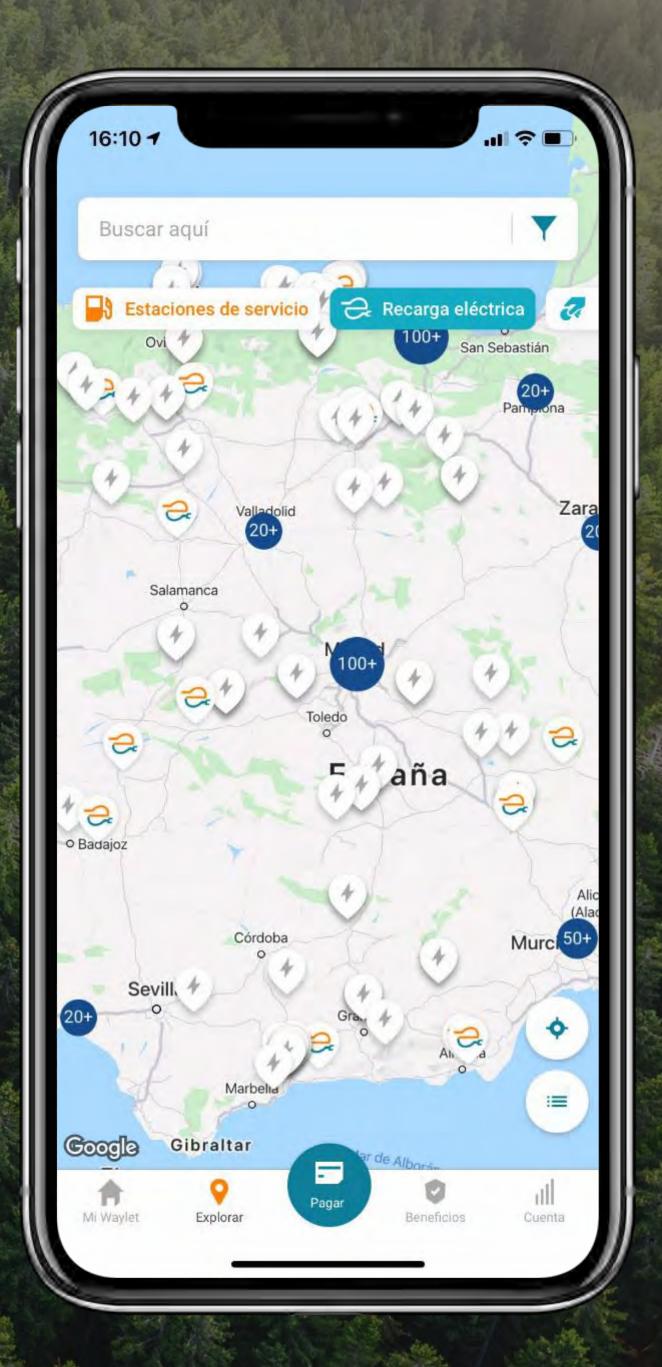
A very synergistic business with attractive economics for Repsol

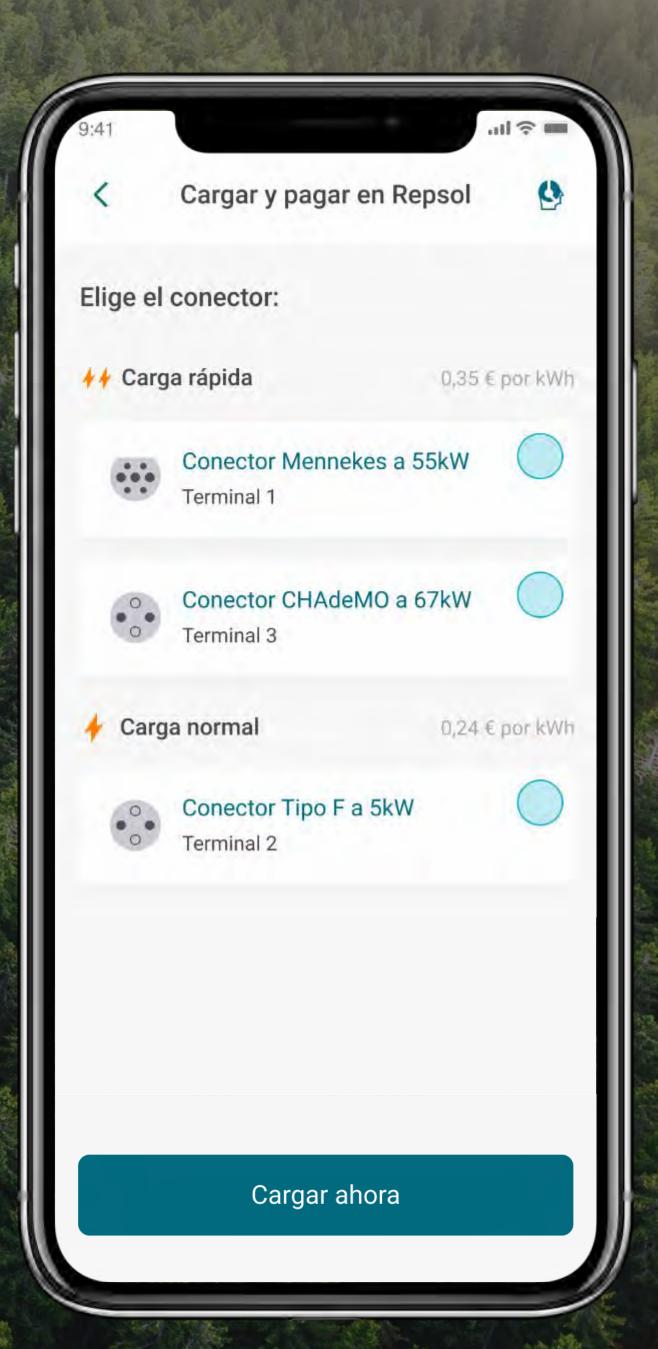
The economics of E-Mobility & home power consumption are even more attractive for Repsol than those of traditional mobility

More than double growth in enhancing contribution margin per customer



Contribution margin per customer (€/customer) – Traditional mobility customers vs. E-mobility customers















Developing New Energy Services that allow to deliver customer's changing needs regarding distributed energy and energy management.

Distributed
Energy



Solar selfconsumption
solution

REPSOL



ekiluz

Solar communities product

Citizens' solar cooperatives



Bringing local and renewable energy producers and consumers together

+2,100 CO2 tons/year avoided by Solmatch's 2021 solar communities

RECENT AWARDS:



Green
Generation
category



Innovation & Customer Experience category



Renewable Energy Category

Distributed Energy

4021

+300

Solar installations in Repsol Service Stations

+180

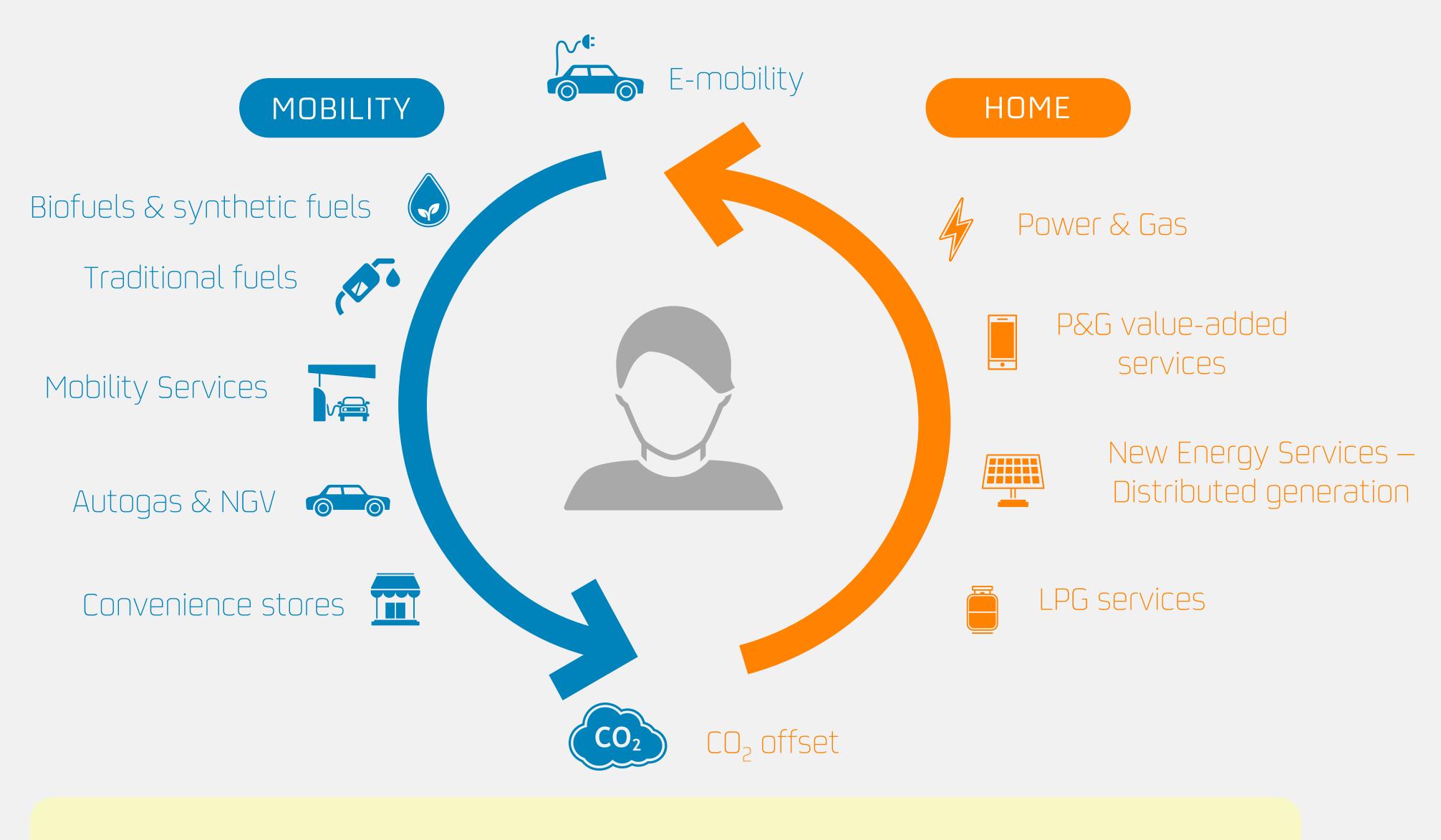
Solmatch active solar communities

50

Solar cooperatives under negotiation

Unique and integrated digital experience to facilitate the customer's relationship with energy











Waylet

Payment and loyalty app for mobility management

#1

Leading market share transport service Apps

3 M

Users in December 2021

+1.6 M

Transactions per month

+7 p.p.

Additional sales uplift in campaigns

2.1x

Volume sales per customer





HIT RATE CHURN



Pay at the pump



CO₂ Offset



Pre-order Convenience stores Pick up - Delivery



Way&Go buy in-store without cash







E-Mobility charging management

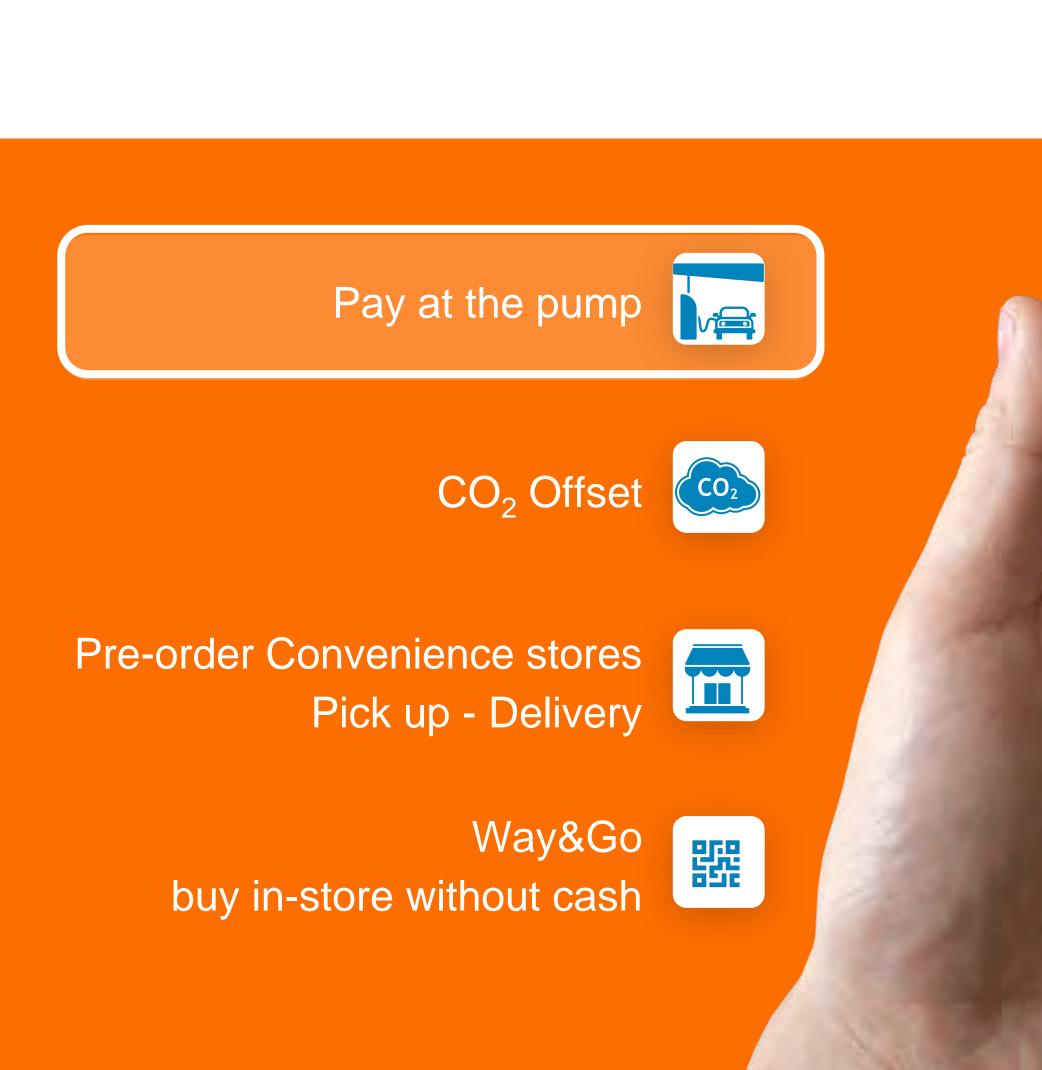


Parkings



Loyalty program









E-Mobility charging management



Parkings



Loyalty program



Pago en surtidor

Gasolina 98

98 1,454 €/L

Diesel E10+

1,419 €/L

Elige carburante para el:

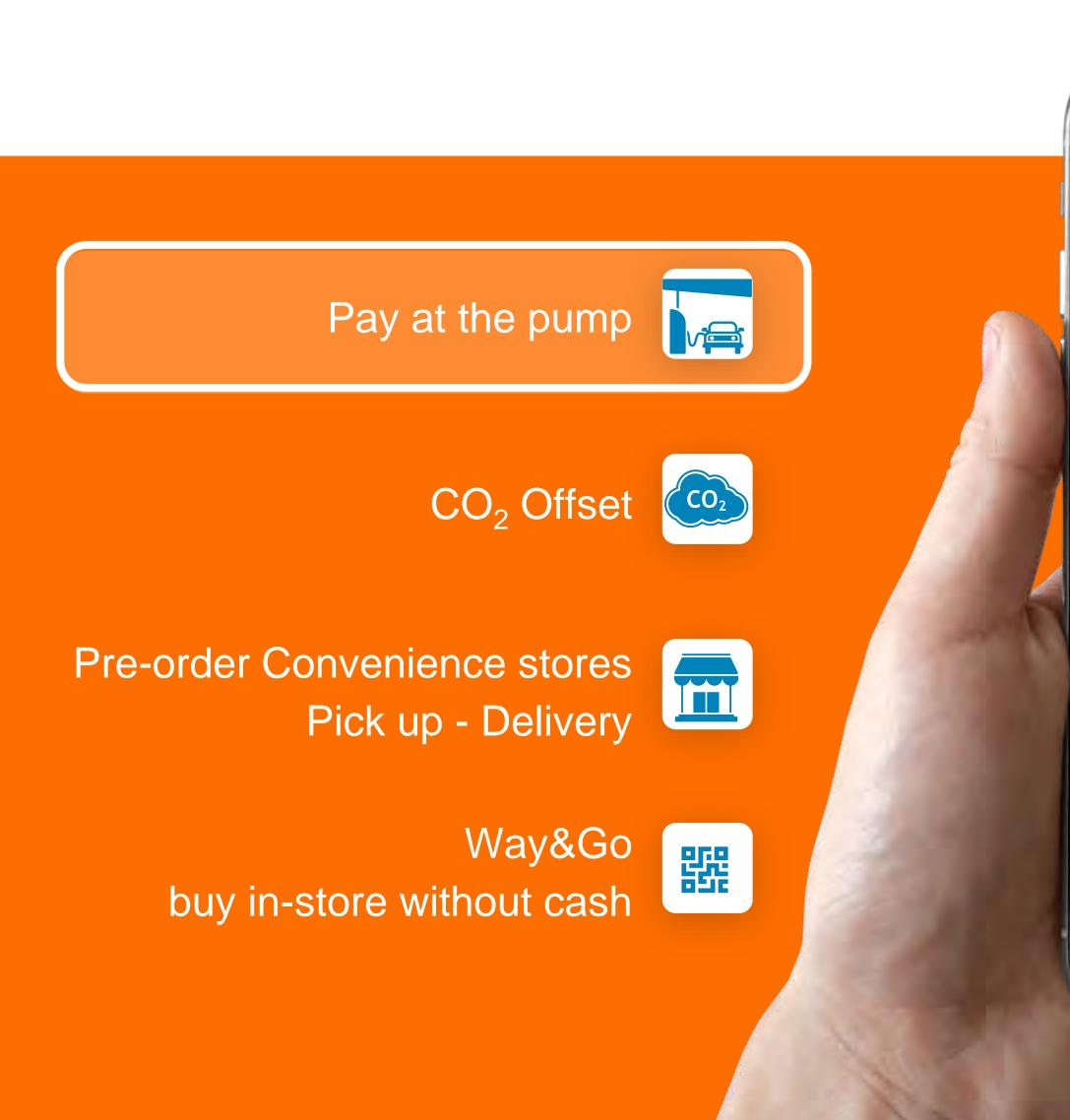
Surtidor 2

Gasolina 95

95 1,409 €/L

Diesel E+

1,268 €/L





E-Mobility charging management

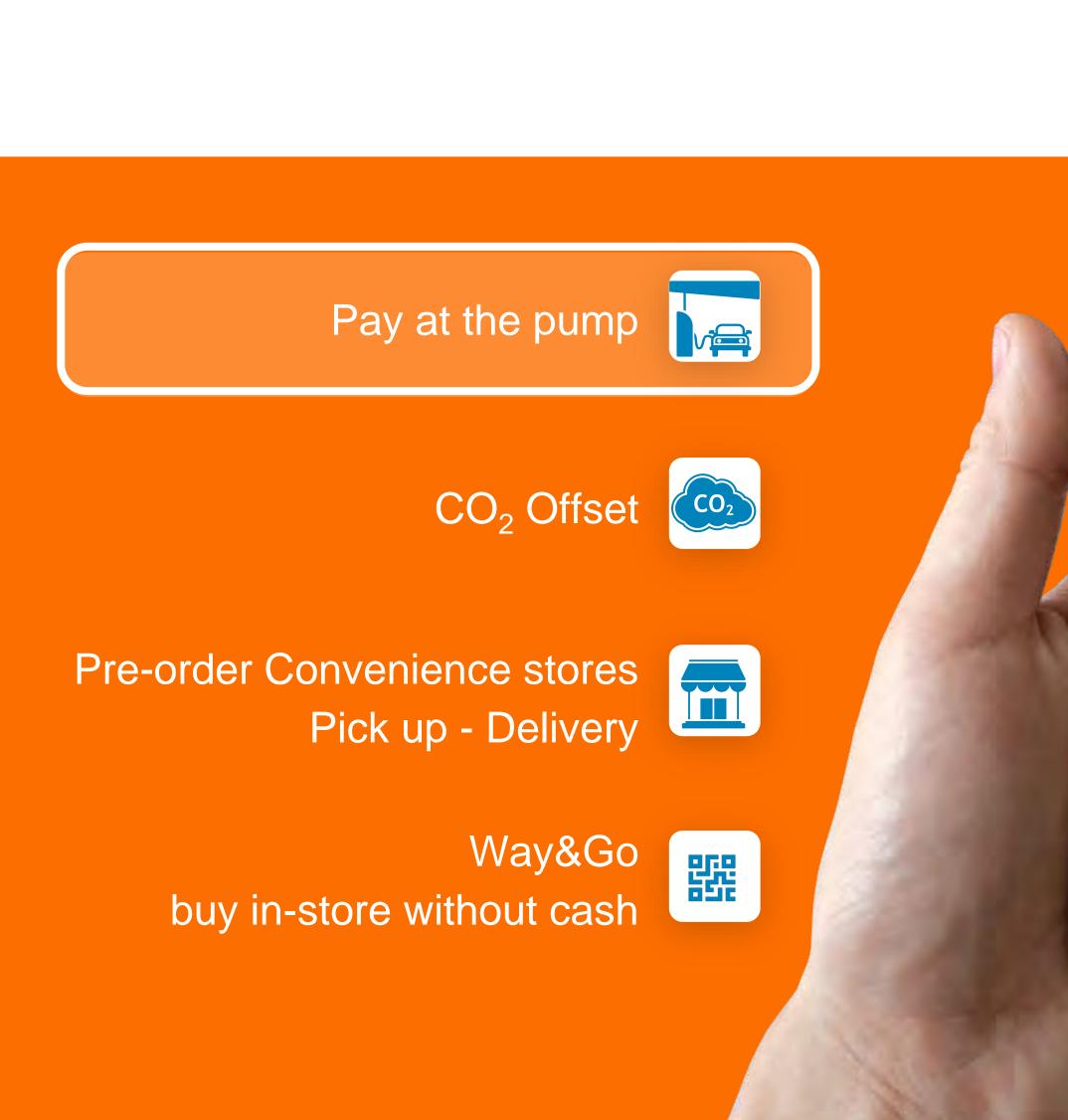


Parkings



Loyalty program









E-Mobility charging management



Parkings



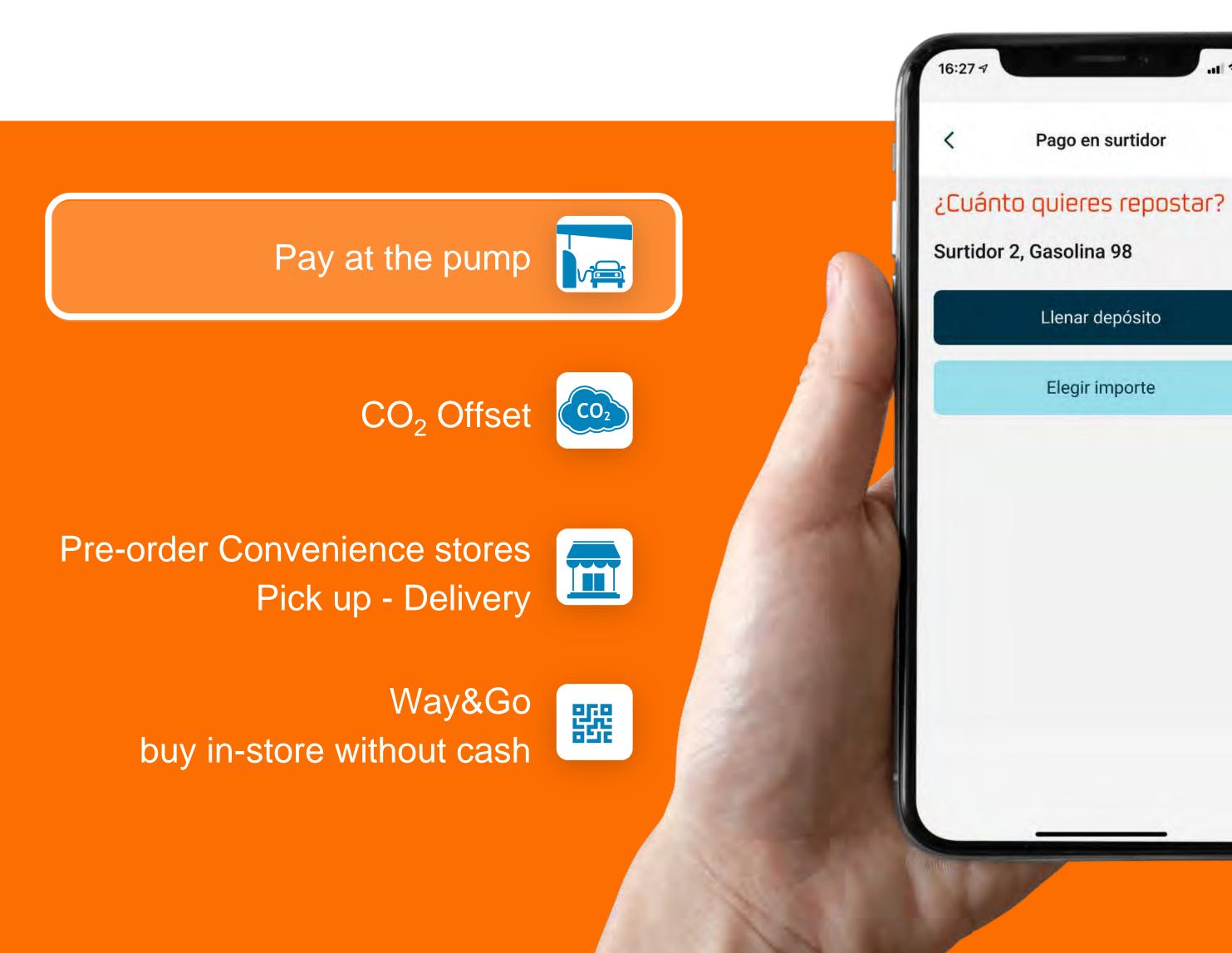
Loyalty program



Pago en surtidor

Llenar depósito

Elegir importe





E-Mobility charging management



Parkings



Loyalty program





Pay at the pump



CO₂ Offset CO₂



Pre-order Convenience stores Pick up - Delivery



Way&Go buy in-store without cash







E-Mobility charging management



Parkings



Loyalty program







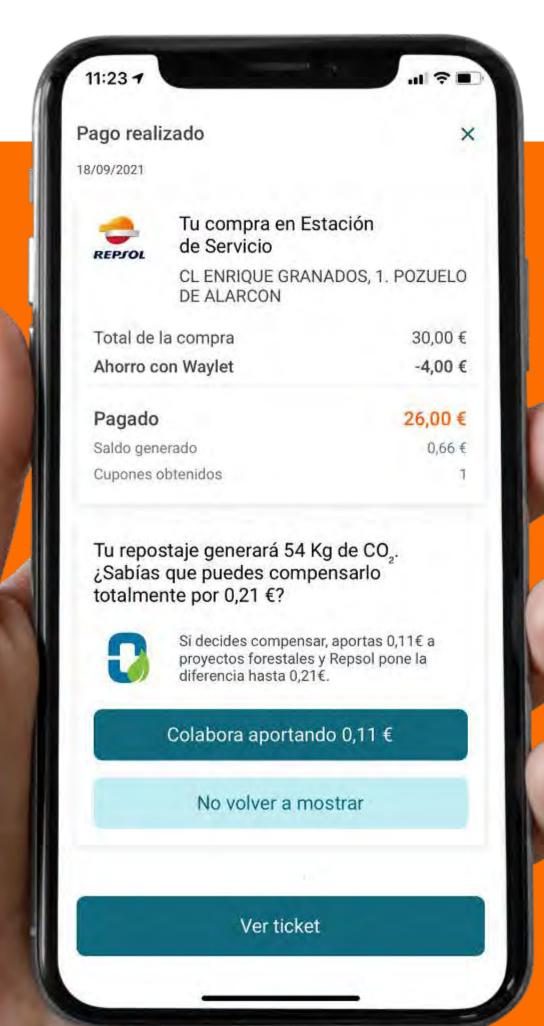


Pre-order Convenience stores
Pick up - Delivery



Way&Go buy in-store without cash







E-Mobility charging management



Parkings



Loyalty program



Pay at the pump



CO₂ Offset CO₂

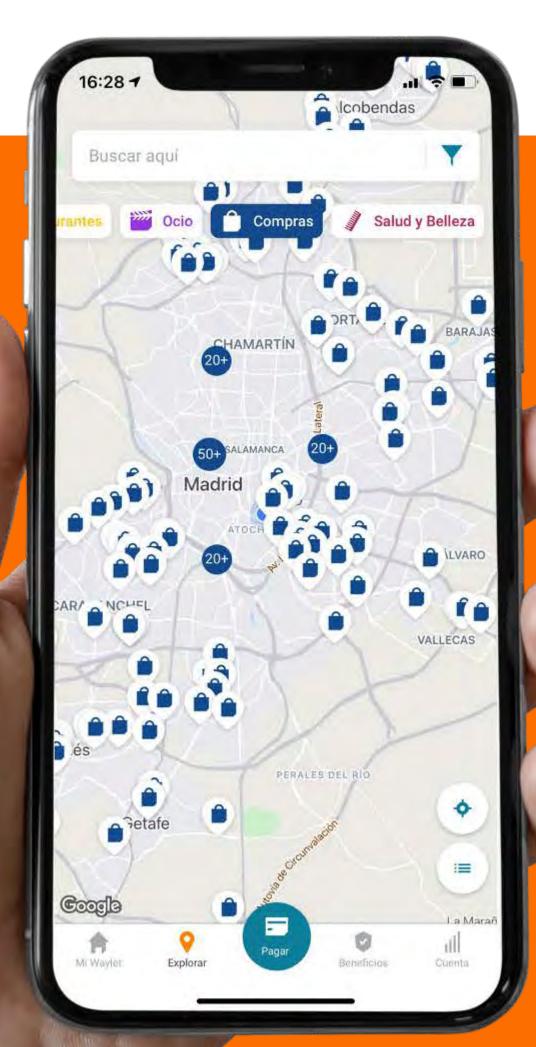


Pre-order Convenience stores Pick up - Delivery



Way&Go buy in-store without cash







E-Mobility charging management



Parkings



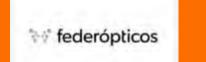
Loyalty program







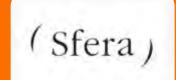














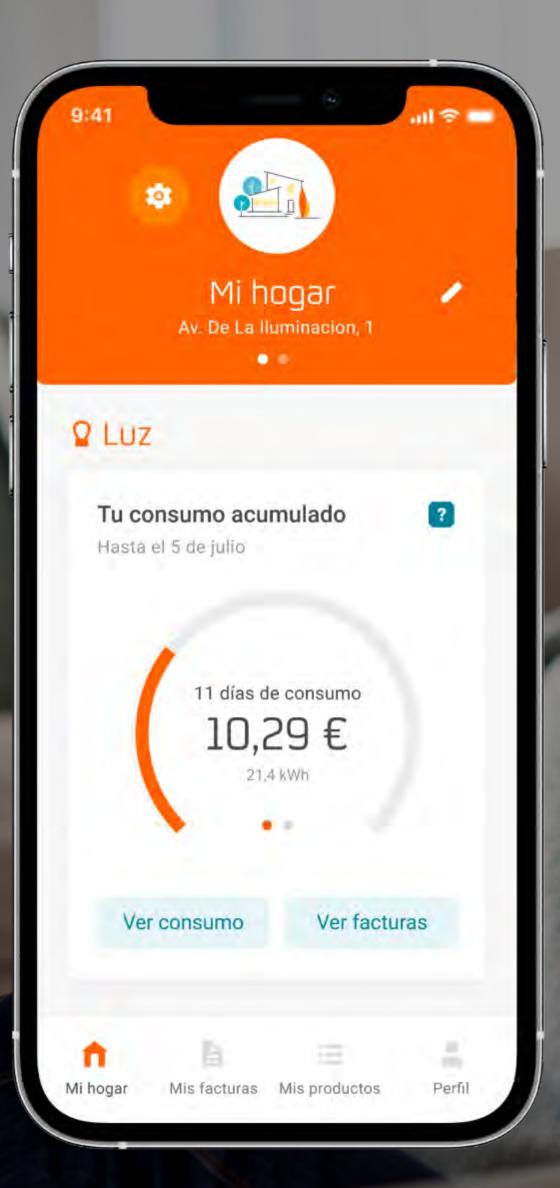
Vivit

Home energy transition management

Customized functions to improve household consumption efficiency

Disaggregated information on appliance expenditure

Consumption
comparisons of
households with
similar
characteristics





Vivit

NEW FEATURE

Decide the source of the energy you consume from renewable plants of your choice

Real-time information to adjust consumption habits accordingly

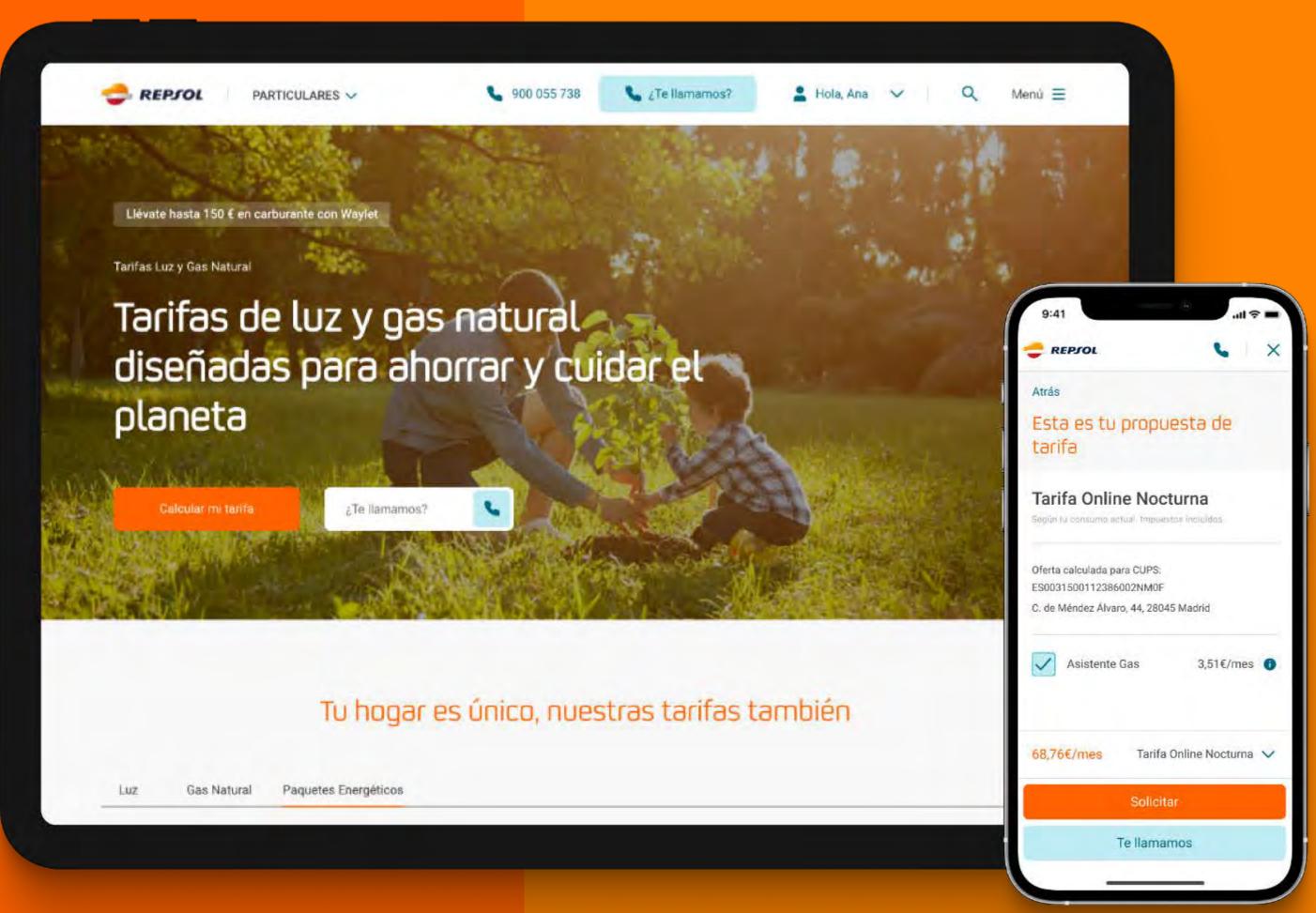




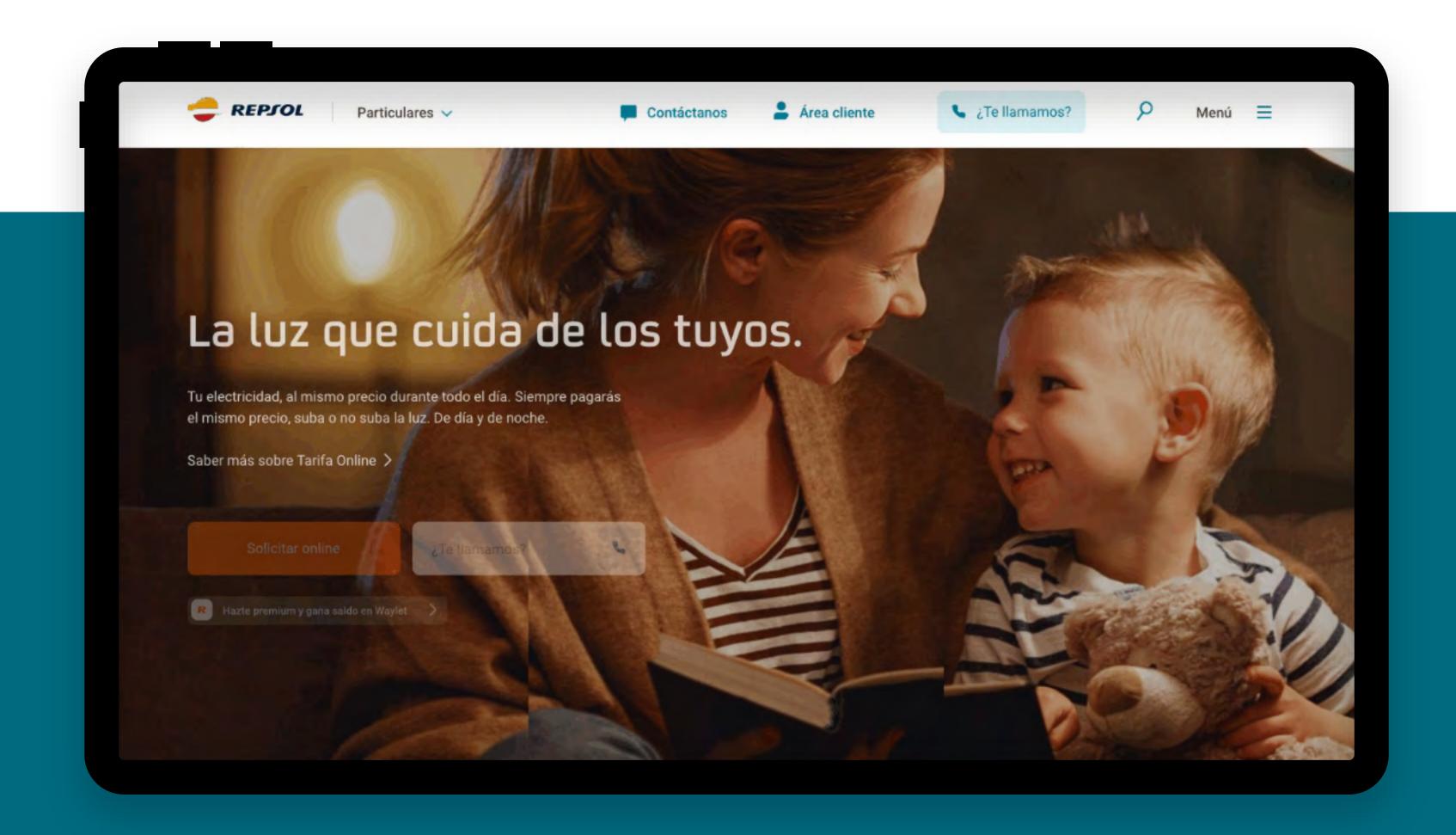
New Release Q4 '21

New Repsoles Ecommerce

Repsol successfully leveraging digital to build customer-centric approach and create value

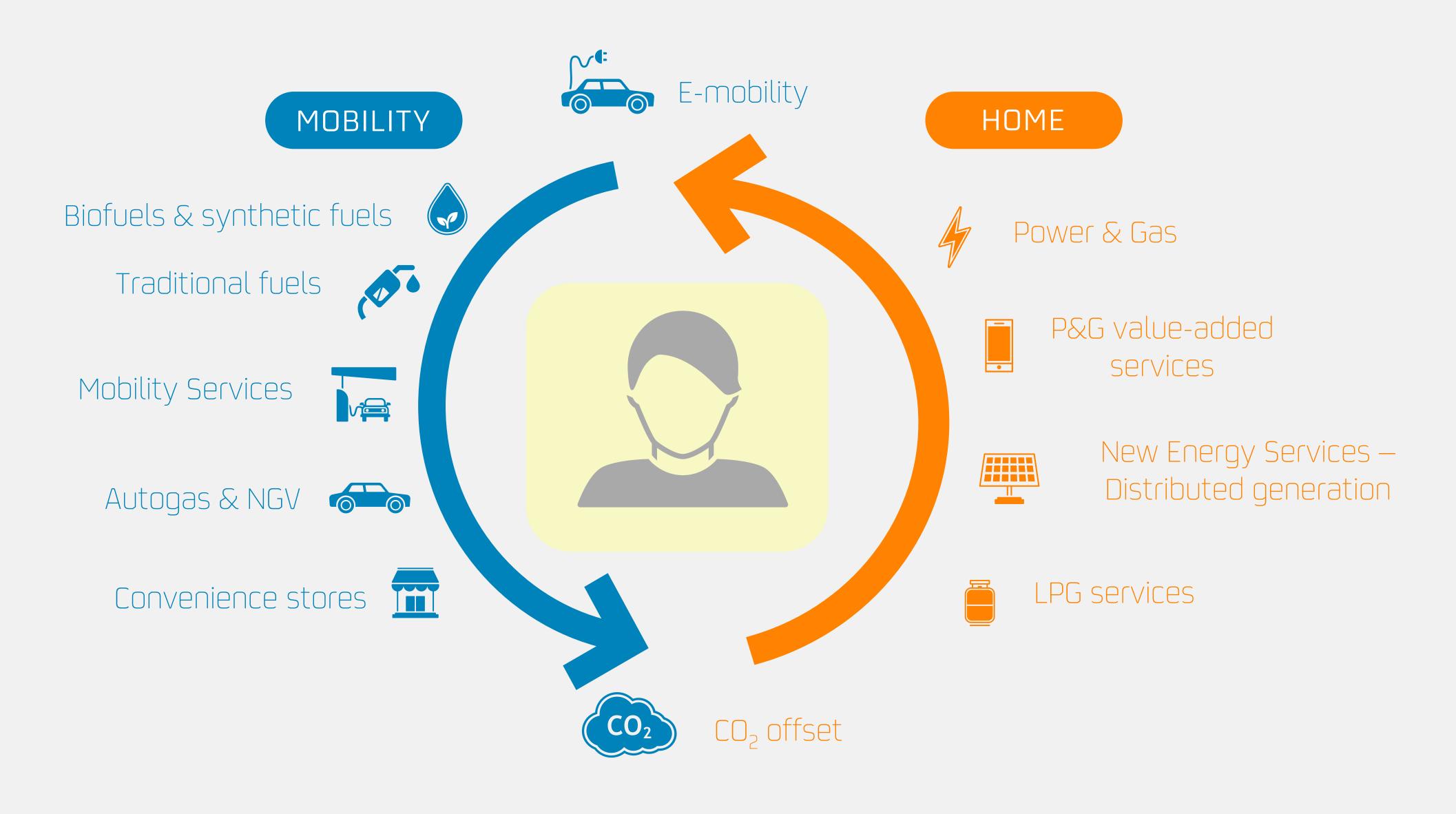






Customized solutions with a customer-centric approach



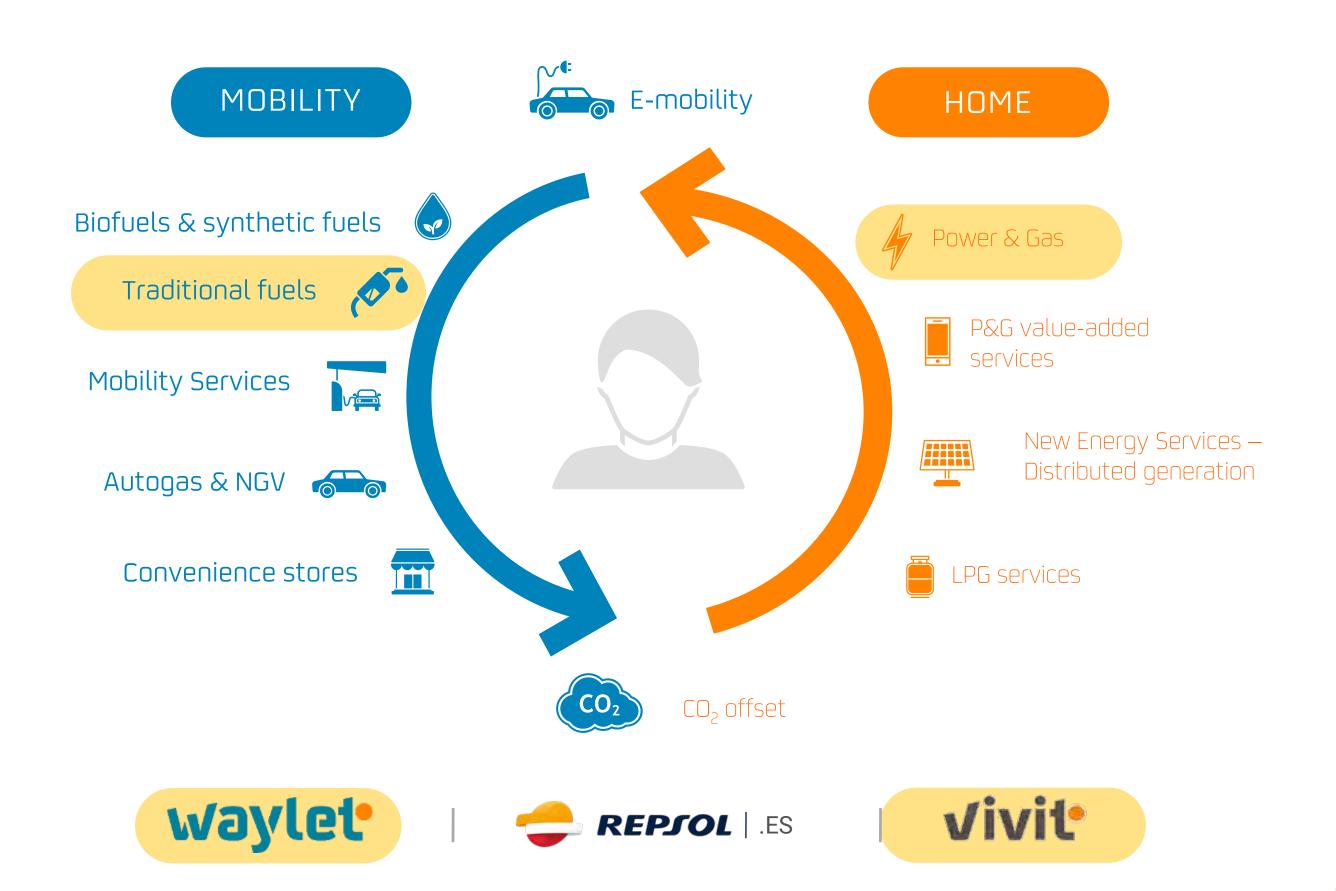






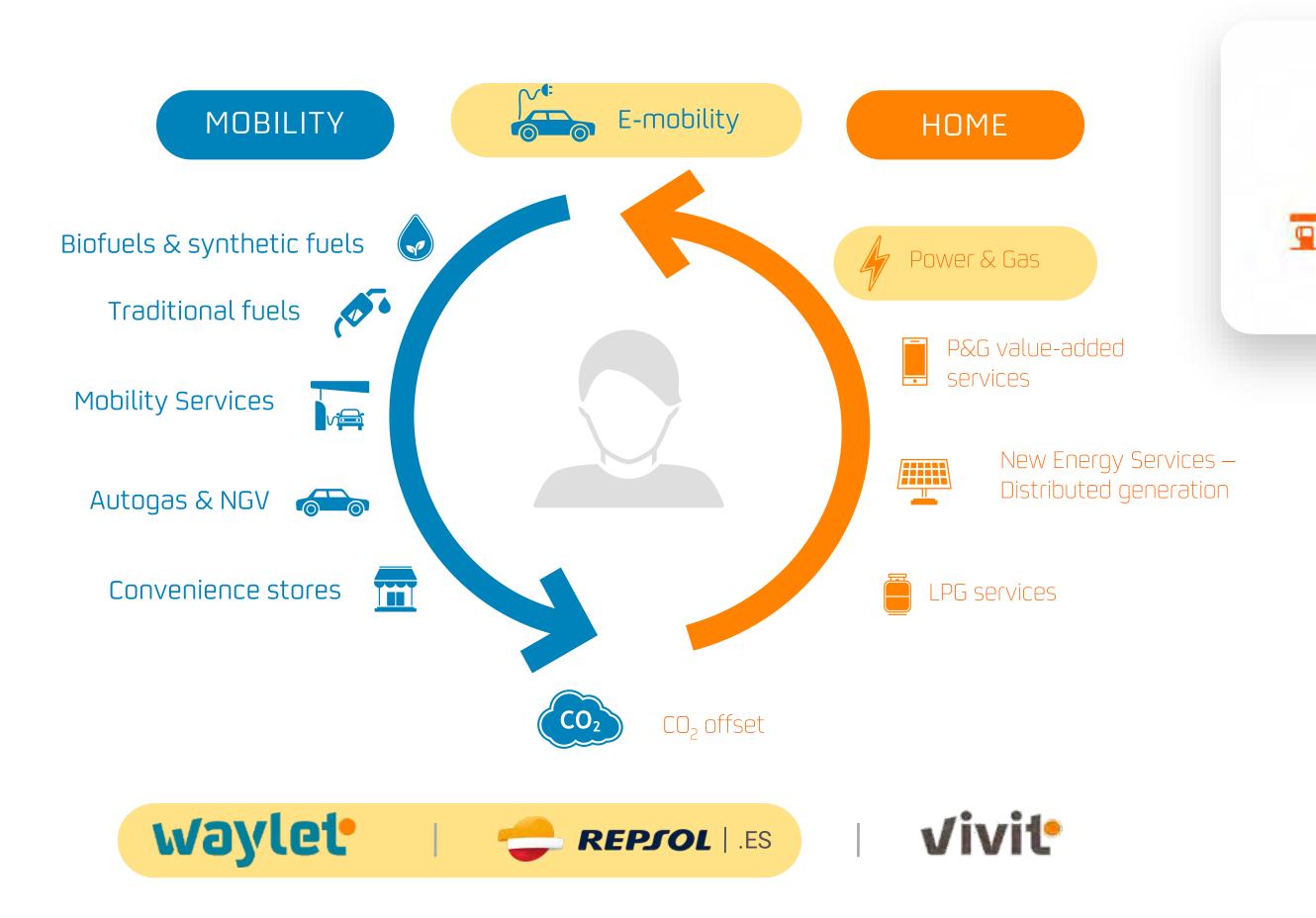


Customized multi-energy solutions for our clients





Customized multi-energy solutions for our clients





Los beneficios de la movilidad eléctrica dentro y fuera de tu casa

Pentro de casa con tu punto de recarga particular, y fuera de casa con la amplia red disponible en toda España.

& G

Gestión del consumo

Localiza el punto más cercano, resérvalo con antelación y paga a través de Waylet. 5

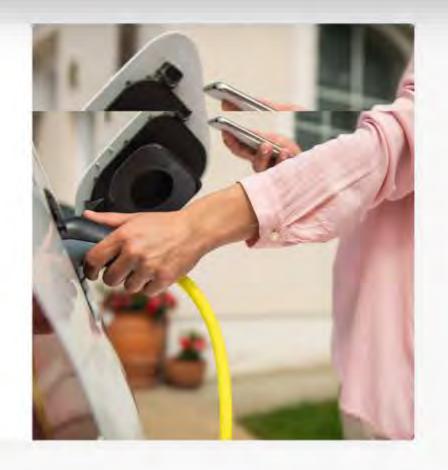
Descuentos disponibles

Consigue recargas gratis además de saldo Waylet con tus recargas.



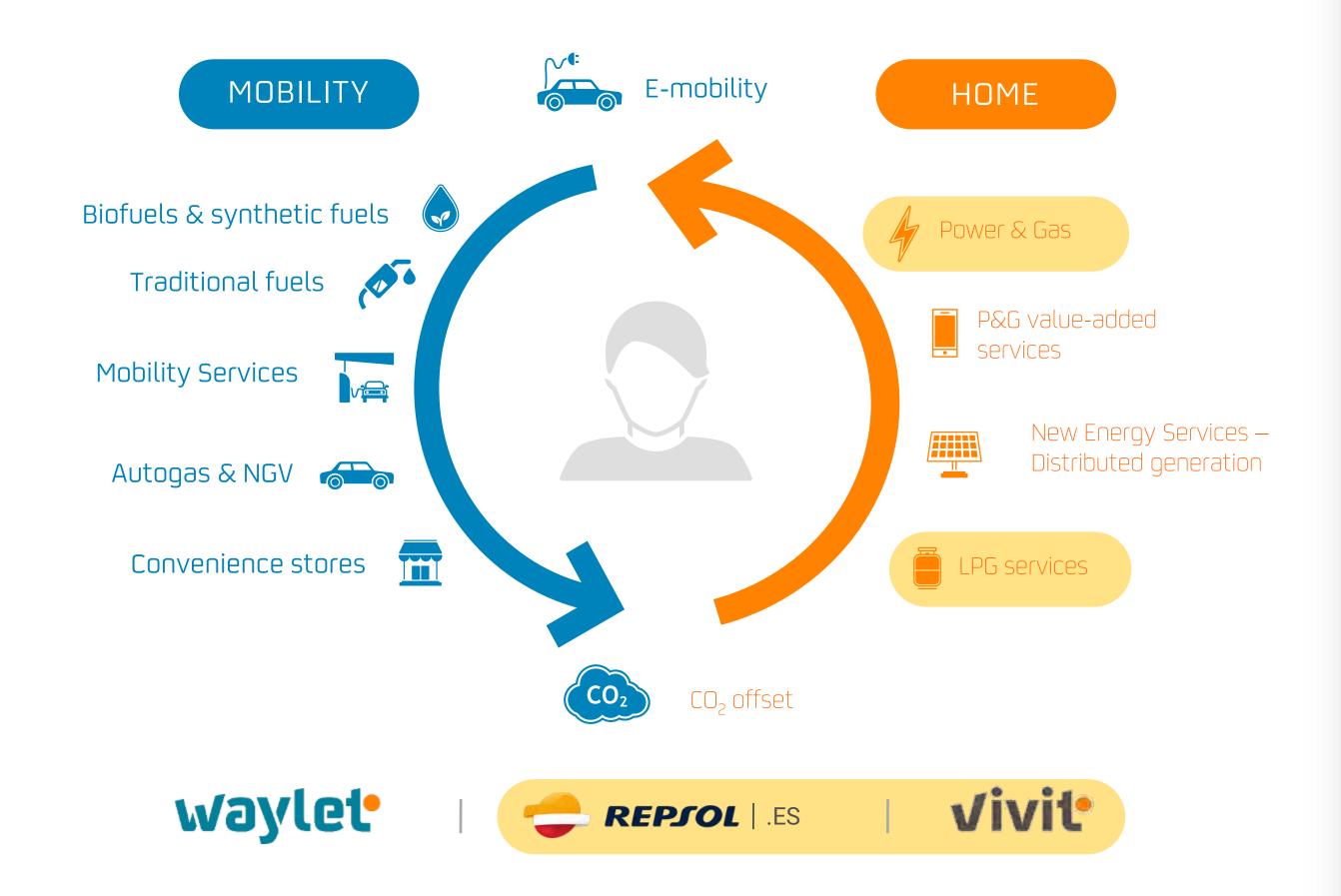
Nos adaptamos a tus necesidades energéticas para recargar tu coche elèctrico tanto dentro como fuera de casa. Descubre todas las opciones que tienes disponibles.

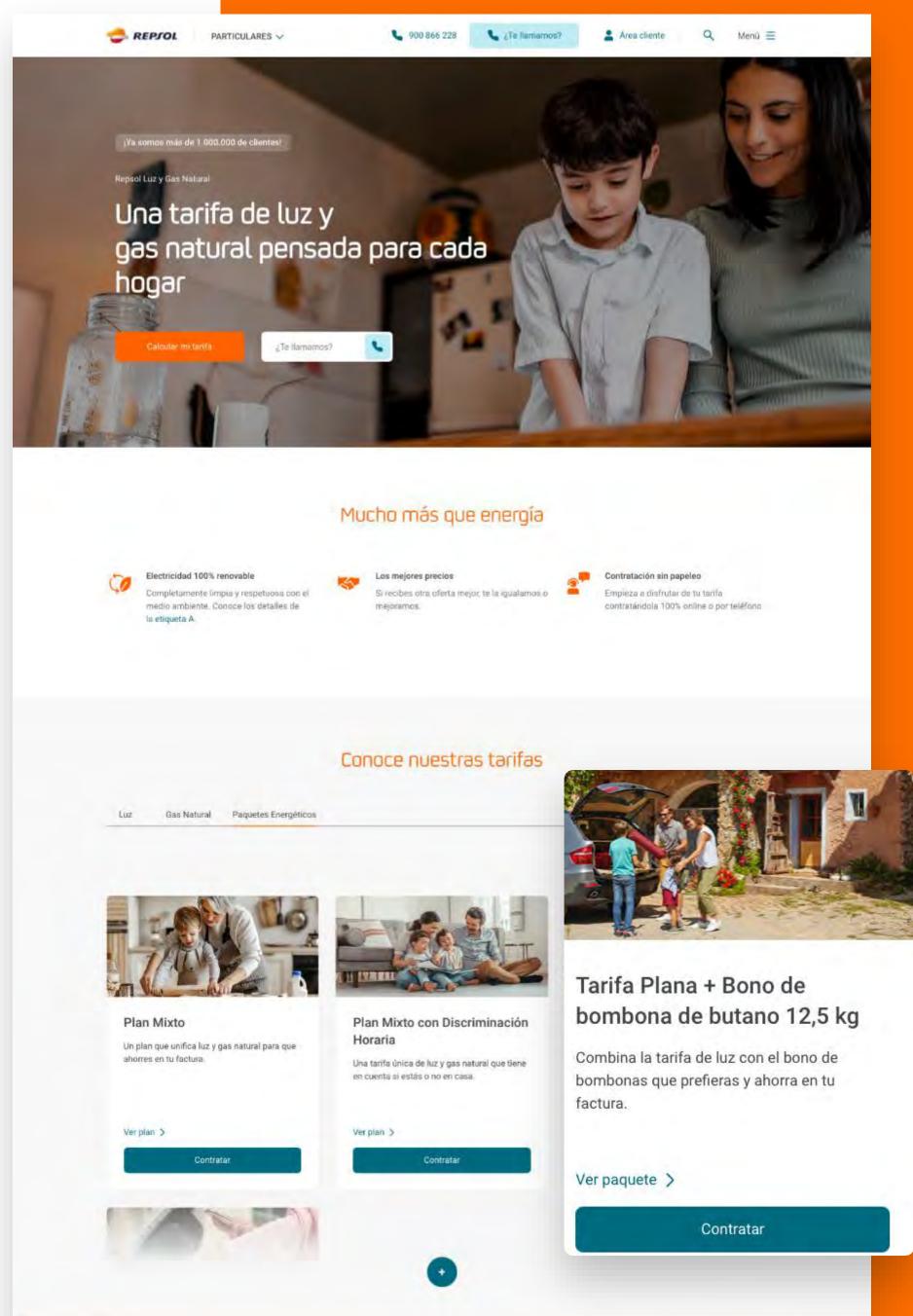
Ver solución



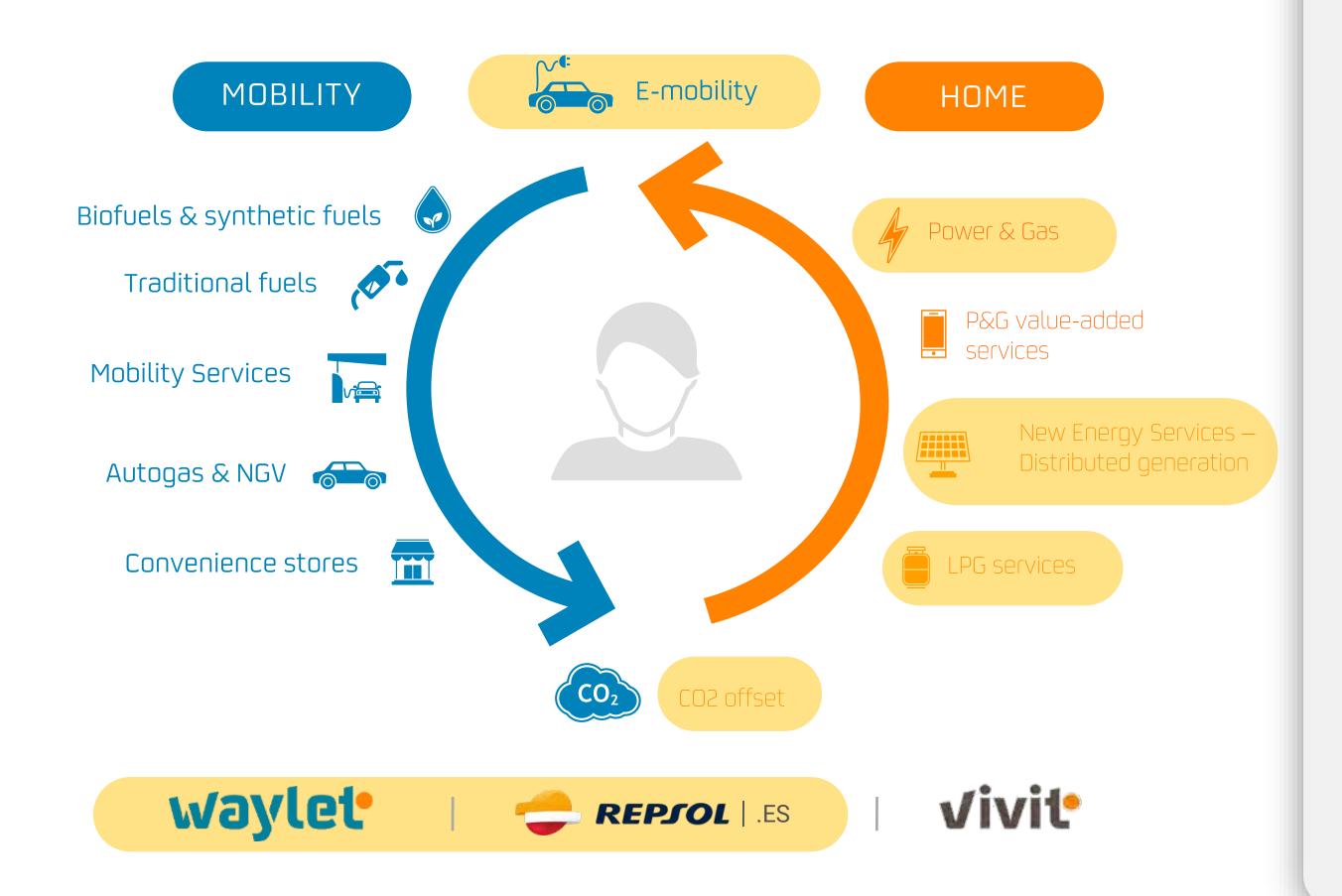
Reforzamos nuestra experiencia con los mejores aliados del sector

Customized multi-energy solutions for our clients





Customized multi-energy solutions for our clients: Food Service Solution

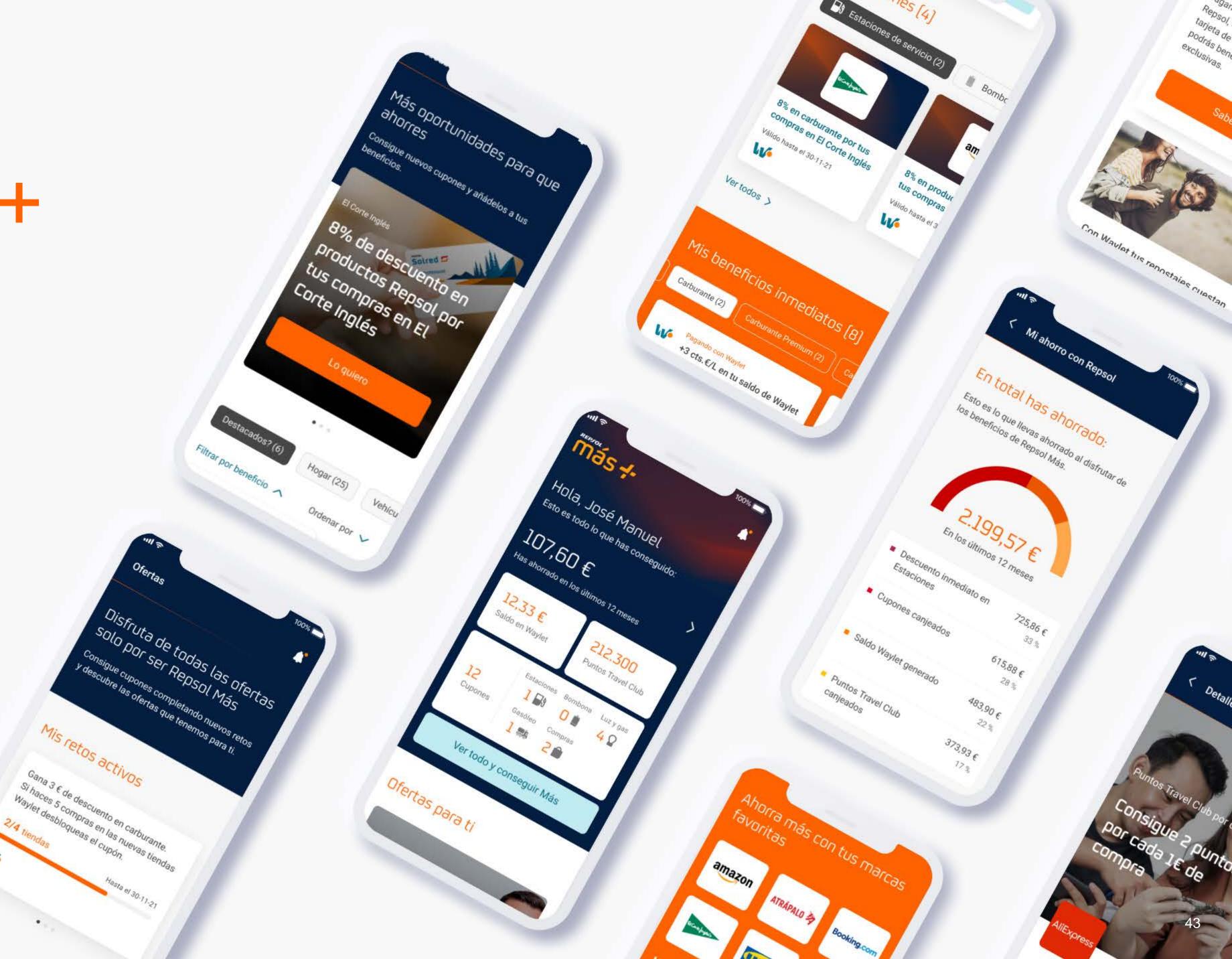




Repsol +

Spain's first energy community

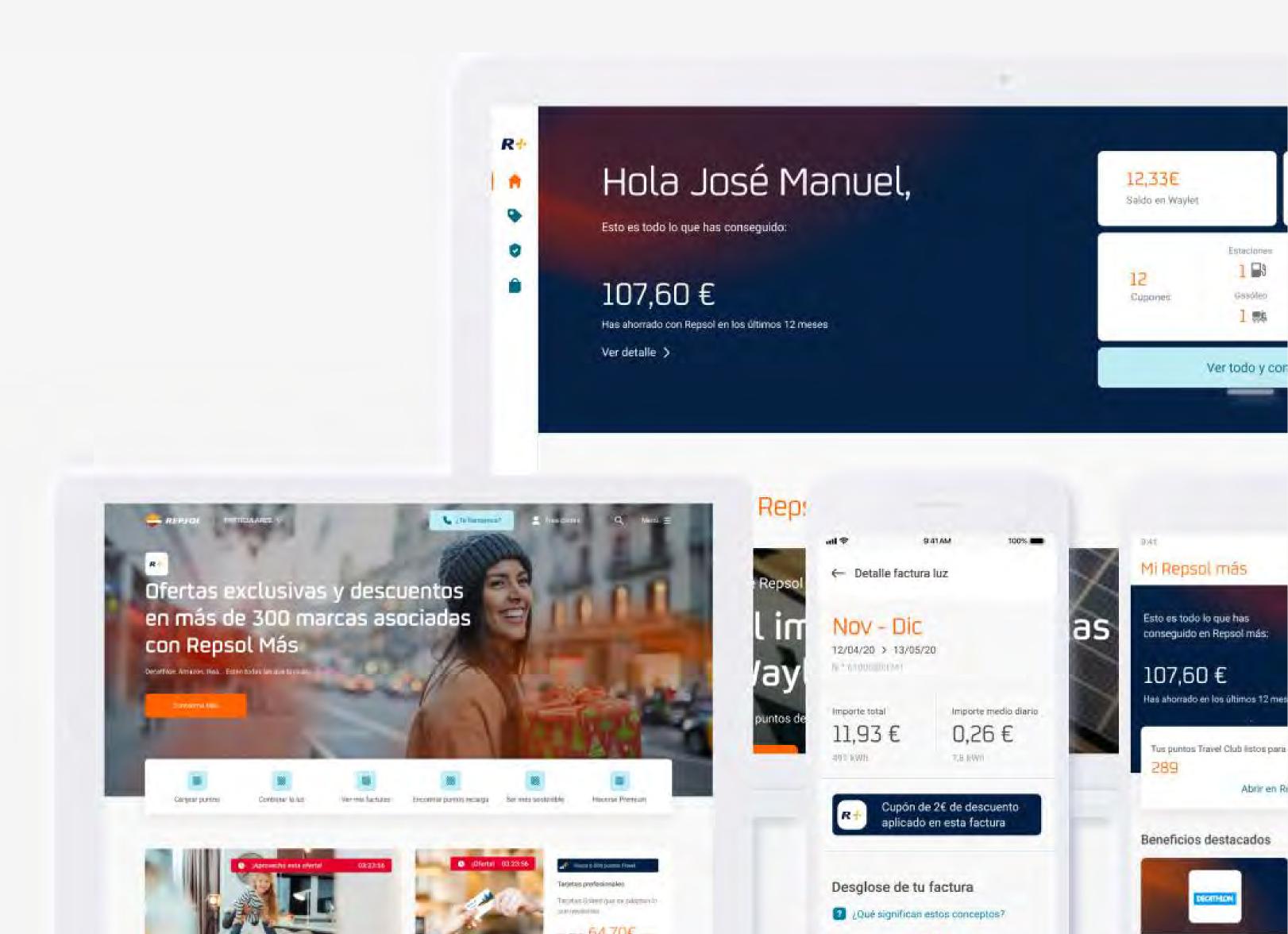
Launch date: 4Q21



Repsol +

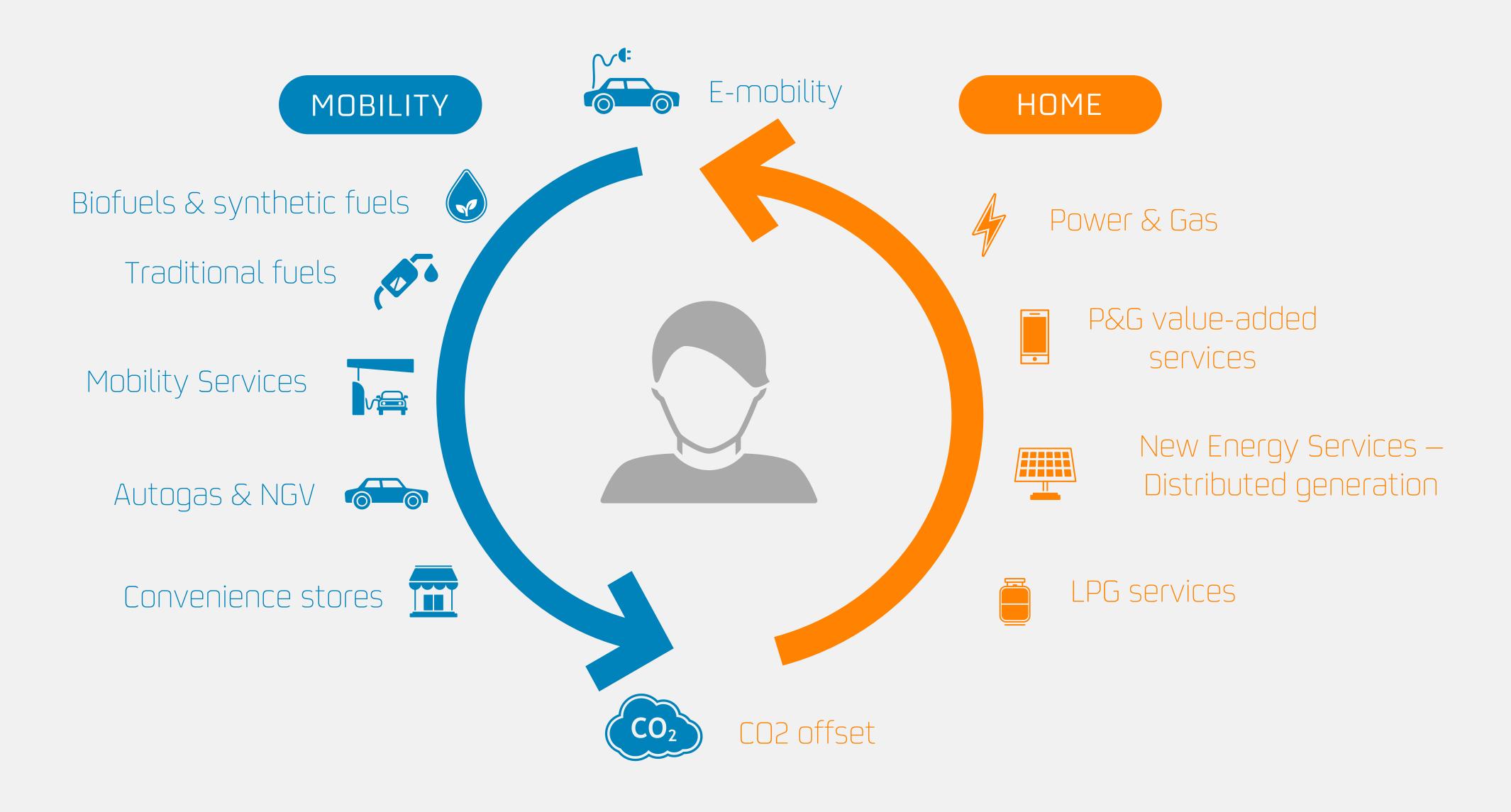
Global loyalty program for Repsol clients

- Transversal vision of your energy
- Value-added services
- Customized offers according to customer needs



Digital.
Multi-energy.
Customer-centric.

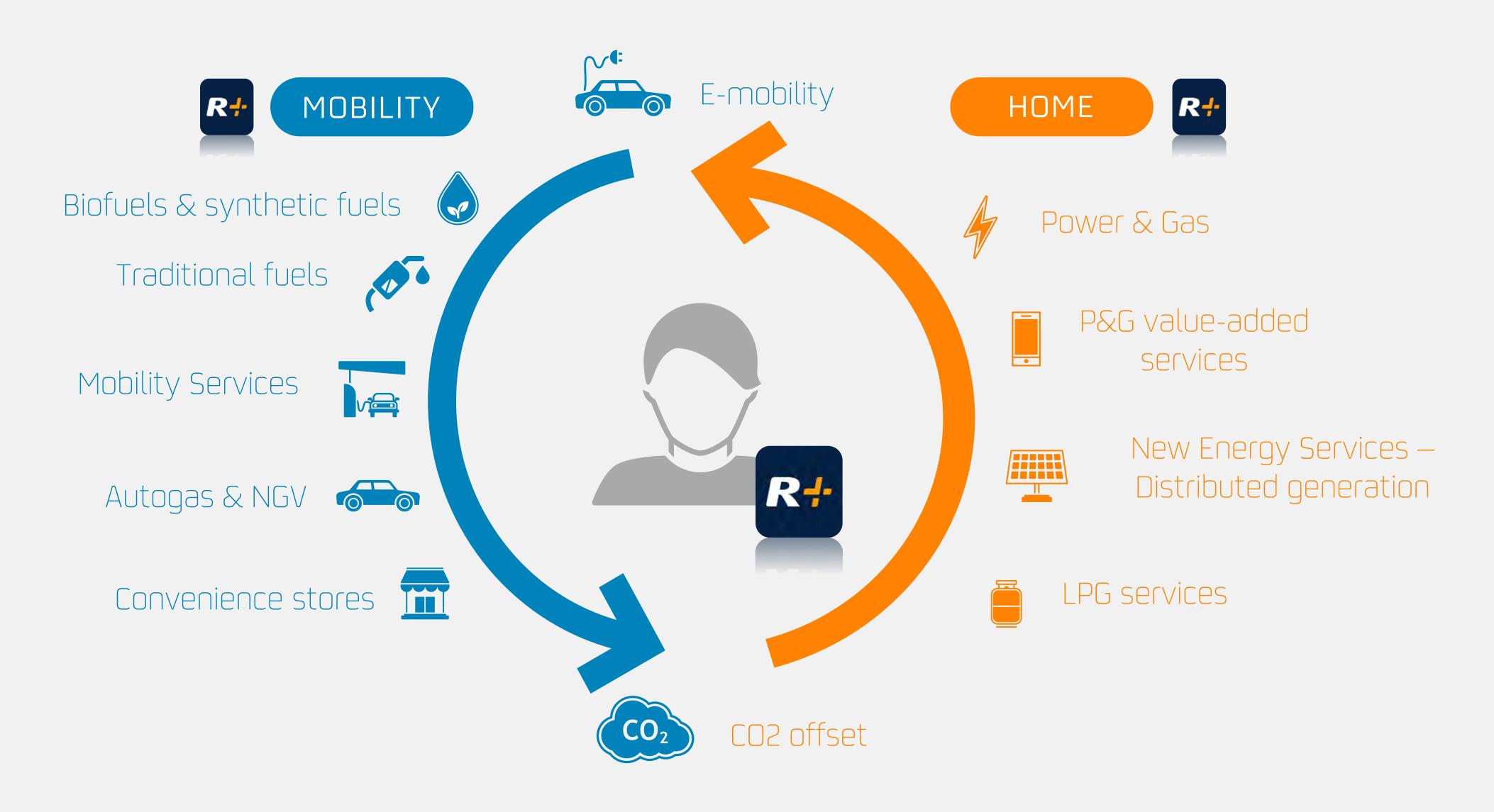
NOW.





















"Satisfy any energy need in people's daily lives in the easiest and most agile way possible and in any area of their lives."



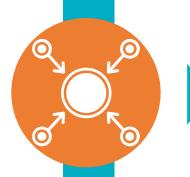
Unique opportunity to create value in the energy transition...



Leading energy customer business with sustainable competitive position



Advantaged and committed play on energy transition

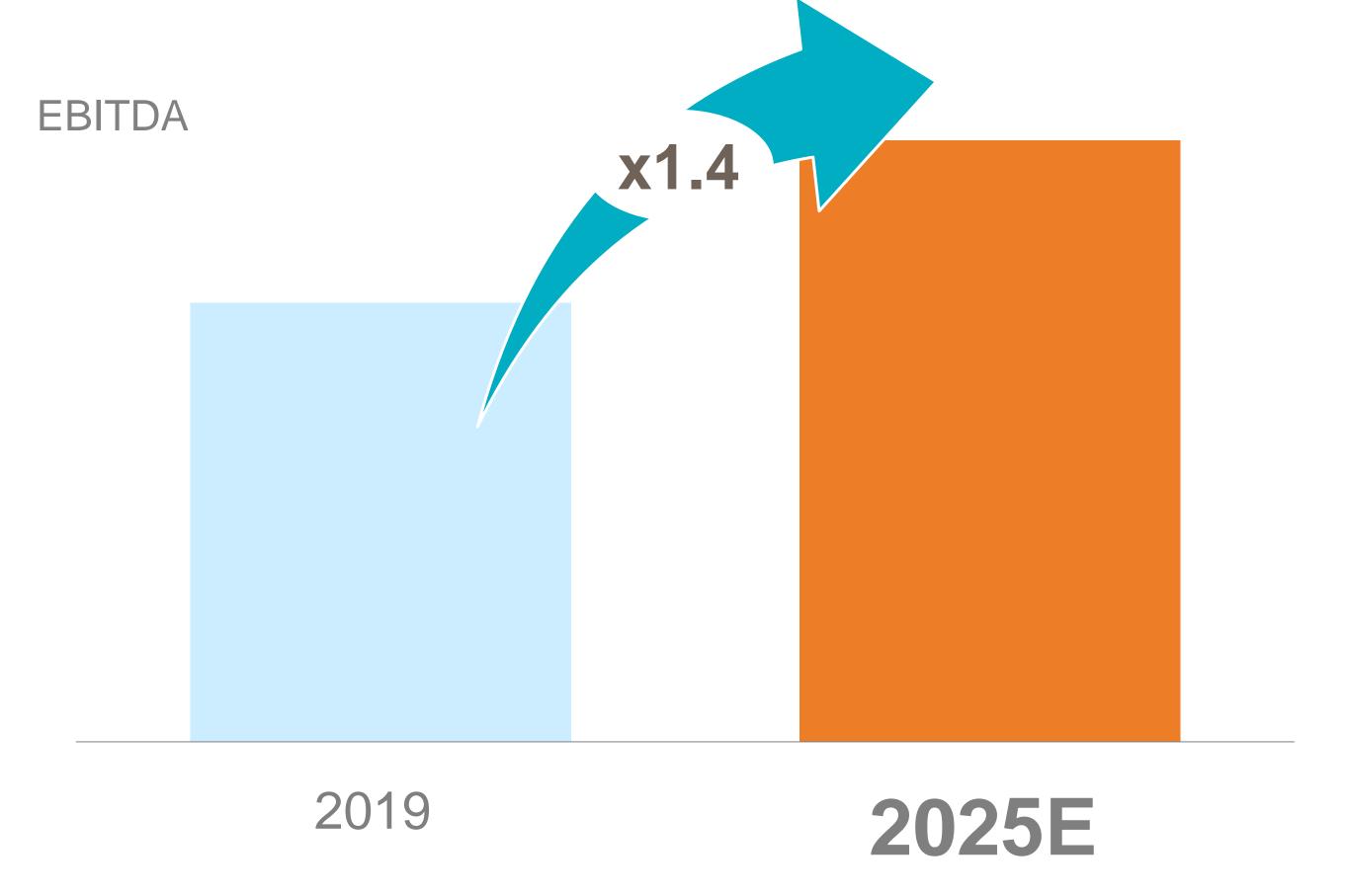


Multi-energy & customer centricity approach



Strong track-record of customer management and digital capabilities

... while increasing customer-centric businesses' EBITDA through energy transition



REPJOL



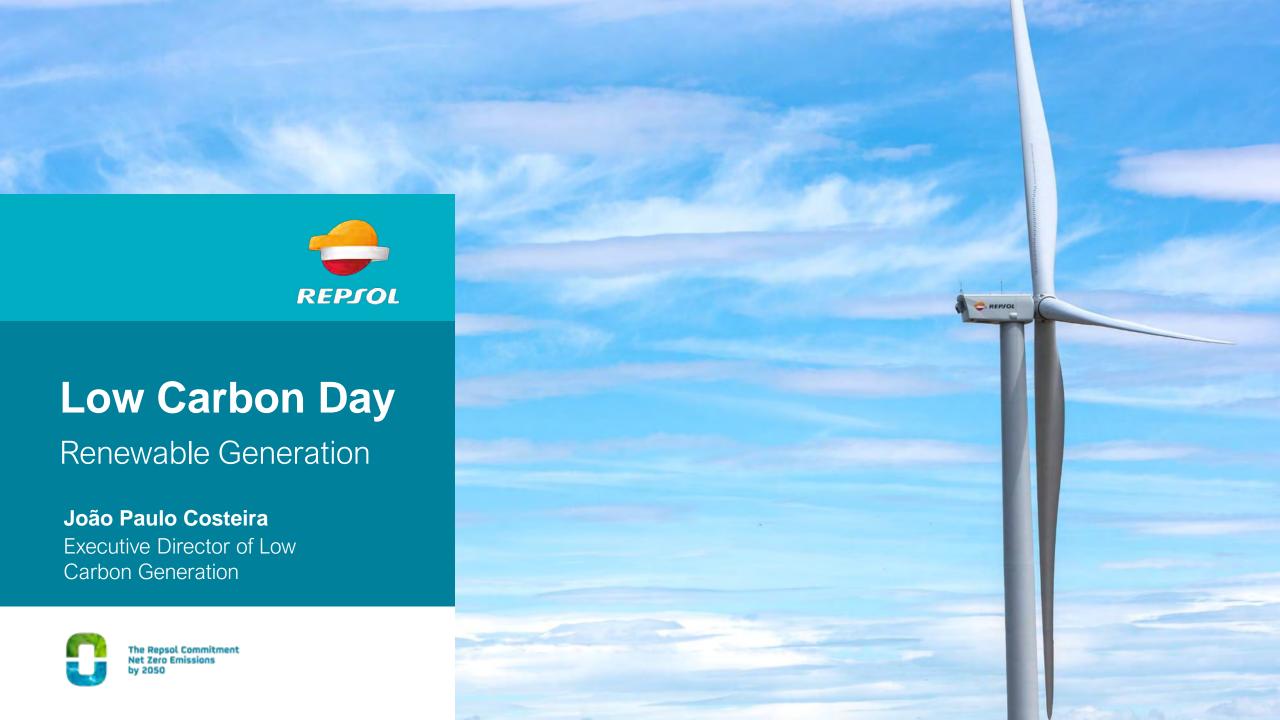
Low Carbon Day

Investor Relations investor.relations@repsol.com

#RepsolLowCarbonDay www.repsol.com







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01.

Introduction: Track record

02.

Strategy: Fast-growth sustainable business model

- Strategic Guidelines
- Pipeline Characterisation
- Updated Targets
- Value addition & Targeted Returns
- Asset Rotation Rationale

03.

Deep dive in **Delta I Project**





01.
Introduction
Track record





01. Introduction Track record



What we have achieved so far: over delivering on our targets



Launch organic growth

 Build-up of a material portfolio of c.11 GW of wind and solar projects in Spain



Build and put in operation pipeline

 1.7 GW operational by YE 2021 with a clearly defined operating model



Create international platforms

 Developed platforms in US and Chile with over 30 GW of projects in different stages of development



Develop capabilities

 Top talent hired from leading Renewables players and in-house top resources



1.7 **GW**

Operating Capacity, 2021YE

4.7 **GW**

Under construction, secured & high visibility projects

+20 GW

Development pipeline with potential COD² <2025YE

250¹ Employees

In renewables

20+ years experience

Management team

+15,000 MW Developed

Management team

- 1) As of July 2021
- Commercial Operation Date



01. Introduction Track record

De-risking the ambition



Hecate acquisition

Differential element to achieve Repsol's long term objectives of generation capacity and internationalization of this business in one of the largest, fastest growing and most attractive markets at a relatively modest upfront capital commitment with significant option value and upside potential allowing Repsol to create a high growth renewable platform with strong development capabilities in the US



Step into the USA Renewable Energy Market to become an integrated developer and operating player

 Represents the first step of Repsol into the US renewable market, complementing our Renewables' strategy and paving the way the construct a Repsol OpCo in the U.S.

Disciplined Acquisition of a minority stake (40%) of Hecate Energy, leading independent developer with a portfolio of more than 40 GW of utility-scale PV solar and battery storage projects in the U.S.

- Experienced and proven management team
- One of the largest, and regionally diversified, solar PV portfolios in the U.S.
- 16.8 GW pipeline (Early and mid term projects) and 4.3 GW Storage Capacity through Hecate Grid

Participation in the development (being able to influence and decide EPC and PPA before the transfer) phase while maintaining preferential position to build the Renewable position in the USA

- Access to Hecate pipeline (at Repsol sole discretion)
- Parallel incorporation of Repsol OpCo to develop, construct and operate new GW in USA
- Potential full acquisition in year 3 at Fair Market Value





02.

Strategy: Fastgrowth sustainable business model







Vision: To become a global leading integrated player in the renewable business targeting a size of 6 GW in 2025 and 20 GW by 2030 from a modest starting position



Integrated Model based on top capabilities

In line with the nature as an industrial company and supported by leading management team with robust track-record, the renewables business will be based on an integrated approach through the value chain based on top capabilities in operations and management



"Off-taker oriented"
Growth with differentiated
Energy Management

Based on forecast of consumption patterns we are defining our portfolio with an adequate energy mix and short development cycles to provide flexibility and different contracting solutions to our clients underpinned by Repsol's brand



Relevant Presence in OECD Targeted Markets

We target sizable presence in a few well-defined OECD countries to achieve low risk and operational efficiency



Asset Rotation

We will seek to capture the yield compression between the development stage and fully commercial and operational projects by selling down stakes to low cost of capital investors

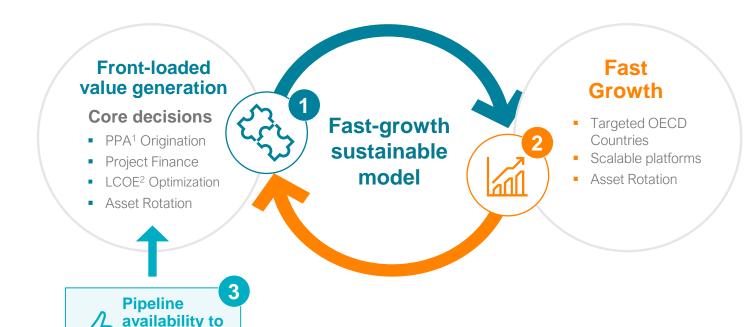


Fast-growth sustainable business model In line with our nature as an industrial company and supported by leading management team with robust track-record, the renewables business will be based on an integrated approach through the value chain based on top capabilities in operations and management

02. Strategy: Fast-growth sustainable business model



Strategic Guidelines





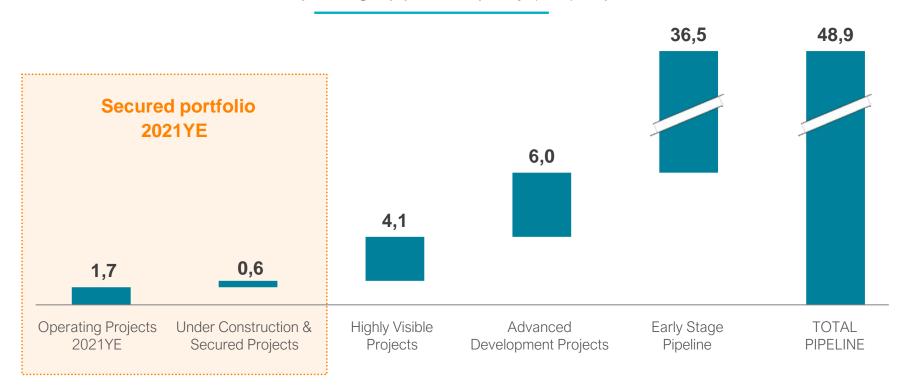
quarantee

sustainability



Supported by a sizeable and diversified pipeline of renewable projects ...

Renewables operating + pipeline capacity (GW) September 2021

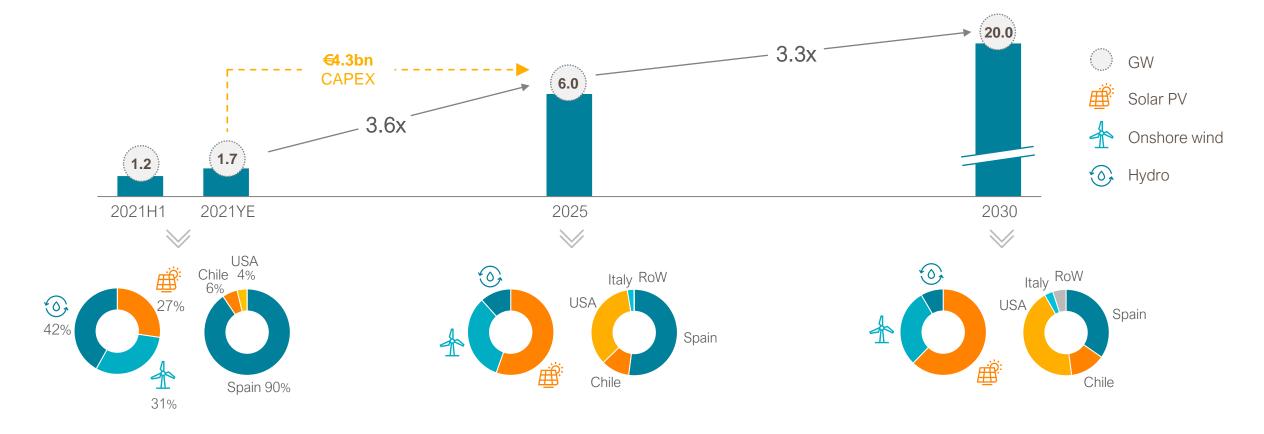




02. Strategy: Fast-growth sustainable business model



... Repsol was able to update the strategic growth targets







Value addition & Targeted returns: Strong capabilities through the value chain driving operational excellence resulting in superior value creation



Original Project IRR

- De-risked unlevered IRR
- Unique access to early stage projects
- Internal energy assessment to de-risk projects

Project development

- Land and interconnection fees management
- Development of greenfield projects

Energy & risk management

- Ability to sign long term PPAs with utilities and C&I
- Strategy focused on customer needs
- Strong management of merchant risk and ancillary services
- Centralised market team with presence in physical and financial markets

Engineering, procurement & construction

 Economies of scale in the negotiation with EPC contractors

Structuring and financing

- Access to different debt and equity products at any point in time
- Optimized economic terms benefitting from Repsol banking relationships

Operations

- Predictive maintenance
- Repowering

Asset life

extension

Portfolio management

 Rotation of stakes in selected projects to lower cost of capital investors, crystallizing value

Best-in-class IRR

 Repsol Renovables target return



02. Strategy: Fast-growth sustainable business model

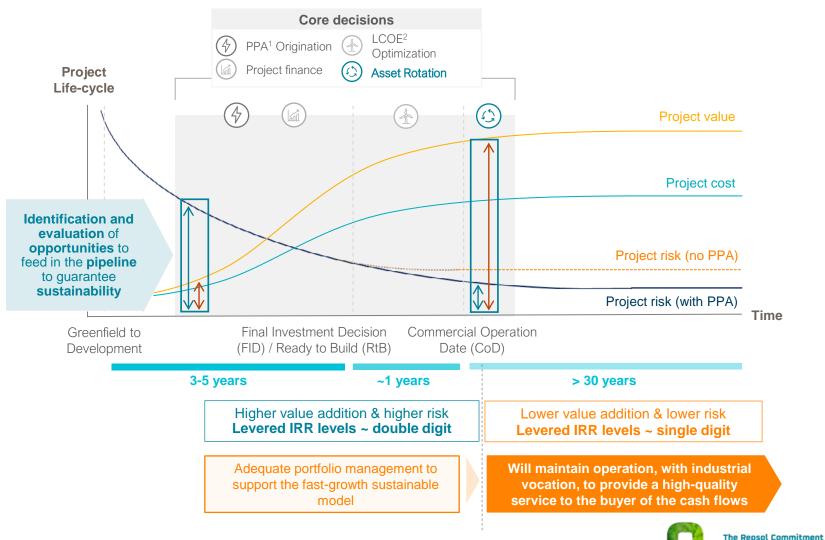
Asset Rotation Rationale

Repsol will capture the yield compression between the development stage and fully commercial and operational projects by selling down stakes to low-cost-of-capital investors



Substantial value creation over small period of time in the asset life-cycle





-) Power Purchase Agreement
- Levelized Cost of Energy

Net Zero Emissions by 2050



03.
Deep Dive in
Delta I Project







Location











2



<mark></mark> REPSOL	Montetorrero	Aguasvivas
Number of projects	2	6
COD ¹	Feb-21	Dec-20 – Mar-21
Installed Capacity (MW)	99	236
Energy Production P50 (MWh)	322,981	651,463
Availability (%)	97%	97%
PPA ²	✓	✓

Main highlights

- The wind portfolio includes 8 farms, with an installed capacity of 335 MW and fully operational since Mar-21. The portfolio is located in the Aragon region, a strategic area with abundant wind resources
- Cash flows are secured through PPAs with highly competitive and attractive terms and conditions, with Repsol as the main off-taker
- Wind farms in the Portfolio are in optimal conditions for hybridization with solar PV technology, estimated to be implemented by 2023
- Top-tier suppliers and service providers such as General Electric, Elecnor or Eiffage, among others
- (1) Commercial Operation Date
- (2) Power Purchase Agreement

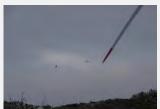
03. Deep Dive in Delta I Project



Safety & Environment: Working to protect the safety of the People and the Environment in every phase of each and all projects

Safety Measures examples

- Health and Safety Coordinator always on site to guarantee compliance with the Safety Plan and that the work is carried out with high safety standards
- Procedures for operational and risk control
- Control of protective equipment
- Emergency drills to be prepared for possible scenarios







Environment Measures examples

- Implementation of bird detection and deterrence systems to avoid collisions with aero-generators
- Biodiversity protection measure: reintroduction of Bonelli's eagle (a species in danger of extinction since 2005), in collaboration with the Biodiversity General Direction of the Government of Aragon and conservation associations
- Weekly monitoring of mortality and use of the birdlife space
- Restoration plan minimizing impact on flora
- Efficient control and management of waste, erosive processes and water regime



03. Deep Dive in Delta I Project

Project Characterization

Resource information

Project is located in a favourable resource area with higher equivalent hours than market average.



Net equivalent hours





Technical description



		2	
Montetorrero Cluster		Aguasvivas Cluster	
COD	Dec-20 to Feb-21	COD	Oct-20 to Jan-21
Number of plants	2	Number of plants	6
Peak capacity (MW)	98.8	Peak capacity (MW)	236.6
Substation	SET Montetorrero	Substation	SET Las Majas VII
P50 Gross production	322.5 GWh	P50 Gross production	669.1 GWh
Turbine type	GE 130	Turbine type	GE130
Number of Turbines	26	Number of Turbines	63
Turbine Manufacturer and O&M		Turbine Manufacturer and O&M	
EPC and BoP O&M	elecnor	EPC and BoP O&M	EIFFAGE ENERGÍA
Asset Management and Market Access	e REPSOL	Asset Management and Market Access	🔷 REPSOL

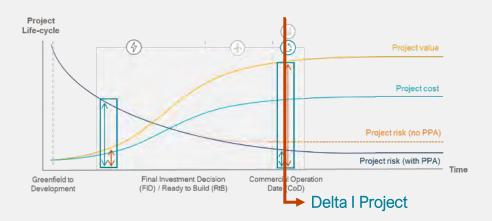
03. Deep Dive in Delta I Project

Strategy & Profitability

Strategy progress

To date, it has been fully funded with equity and shareholder loans granted by Repsol

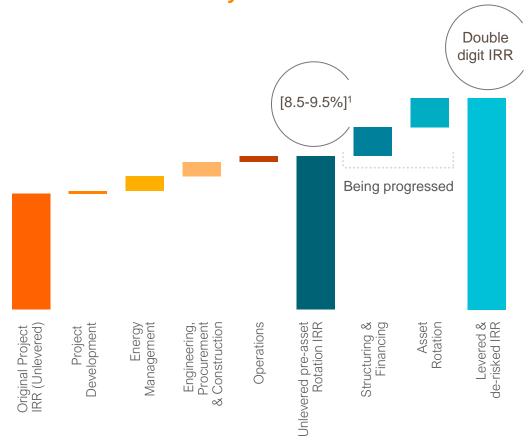
Will be the first asset to fully implement this strategy



Со	re decisions	Status
4	PPA Origination	✓
	Project finance	In progress
	LCOE Opt.	✓
(2)	Asset Rotation	In progress







(1) Assuming Q2 2021 Baringa Central price scenario







LOW CARBON DAY

Annex

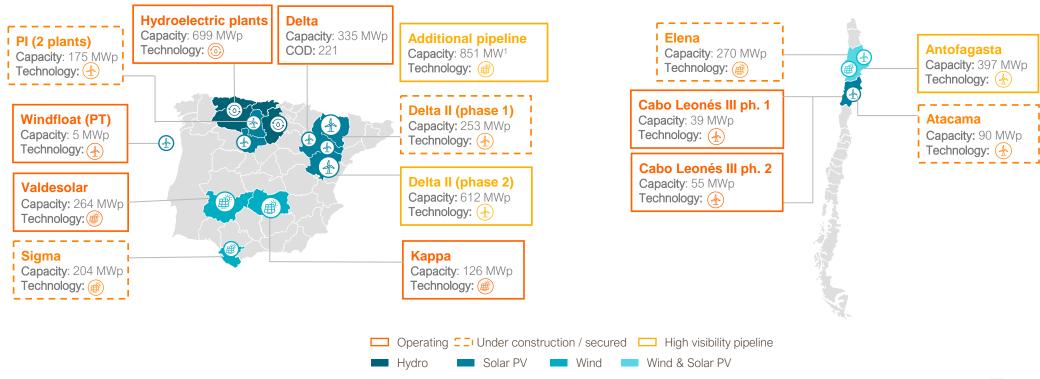


01. Introduction Track record



Repsol has, in a short time, grown to a substantial business supporting energy transition ambitions

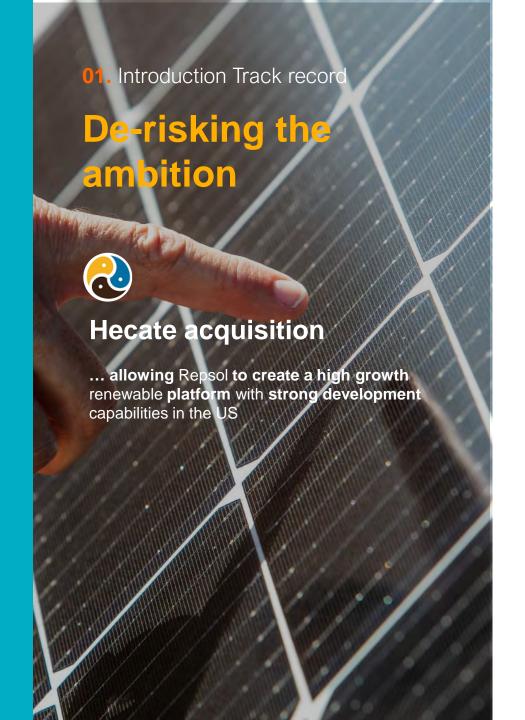
Geographical footprint of Repsol Renewables





⁽¹⁾ Greenfield projects with interconnection rights, including solar hybridization projects in wind portfolio





Well-diversified footprint across the most attractive US energy markets...



Early and mid term projects



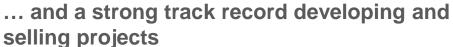
16.8 **GWdc**

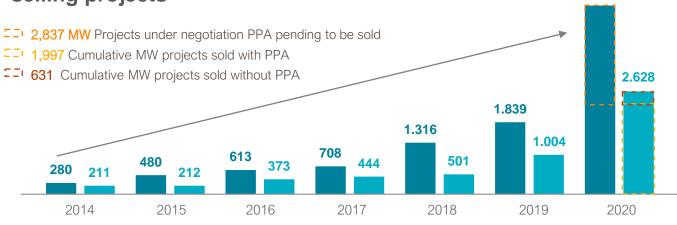


Solar PV 13.8 GWdc



Batteries 3.0 GWdc





Cumulative MW under negotiation PPA ¹

Cumulative MW projects sold 1



The Repsol Commitment Net Zero Emissions by 2050

4.834

1. As of May 2021

22



Low Carbon Day

Low Carbon initiatives in Exploration: CCS

Mikel Erquiaga

Director of Regional Exploration Eastern Hemisphere





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01.

Our Starting Point

The Upstream Business in the Energy Transition context

02.

Sakakemang Project:

- Discovery & Appraisal
- CCS
- CCS (Carbon Pricing)
- CCS worldwide benchmark
- CCS Technical Assessment

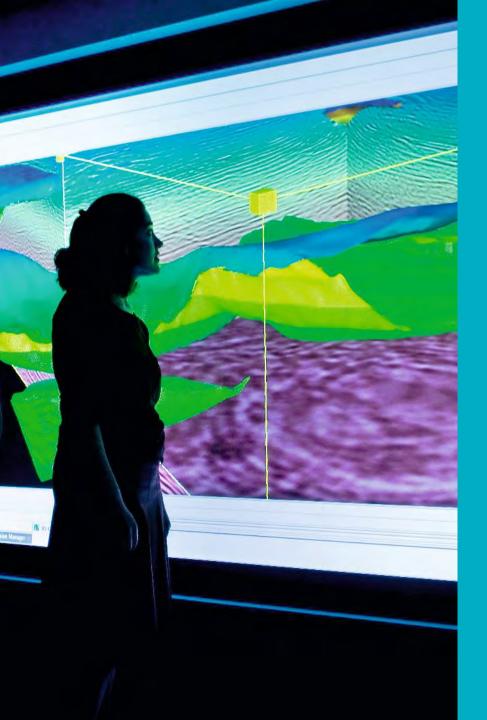




01.
Our Starting
Point







01. Our Starting Point



The Upstream Business in the Energy Transition context



Repsol: First O&G Company to announce Net Zero commitment by 2050



Decreasing capital employed in conventional O&G exploration activities and geographically concentrated (2021-2025 Strategic Plan)



Exploration personnel skill sets in conventional O&G exploration activities is being re-converted to Low Carbon Exploration initiatives aligned with our Net Zero ambitions:

- Carbon Capture & Storage (CCS) in the subsurface to abate CO₂ emissions
- Exploration for Geothermal Resources to boost low CO₂ energy generation (similar activity to (O&G Exploration)
- Hydrogen Storage to provide solution to buffer H₂ production through storage in saline cavities in the subsurface



The expertise of our G&G workforce will be source of Competitive Advantage in the Energy Transition







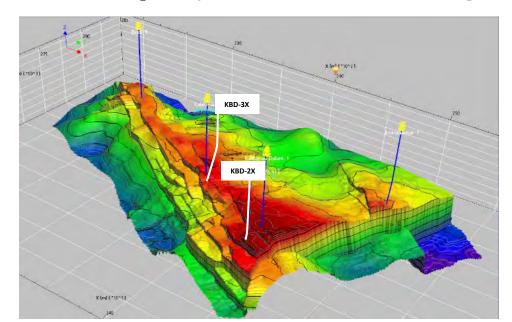




- Kaliberau Dalam-2X discovery well: February 2019
- Largest Gas discovery in Indonesia in the last decade (>2 TCF)



- Gas with high CO₂ content (26%)
- New Greenfield Projects need to be Net Zero
- Appraisal campaign following the KBD-2X discovery:
 - KBD-3X appraisal well (2020-2021) Completed
 - Long Duration Test (LDT) on KBD-2X discovery Pressure monitoring in KBD-3X (2021) – Ongoing
- Objectives of appraisal program: confirm the volumes associated to the discovery and confirm connectivity between KBD-2X & 3X
- Volumes of CO₂ directly related to discovered volumes of gas



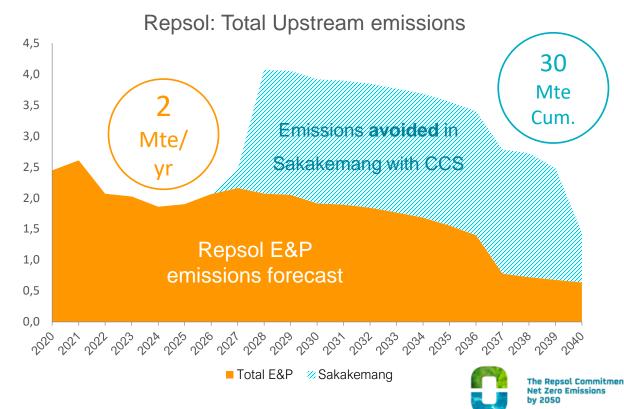


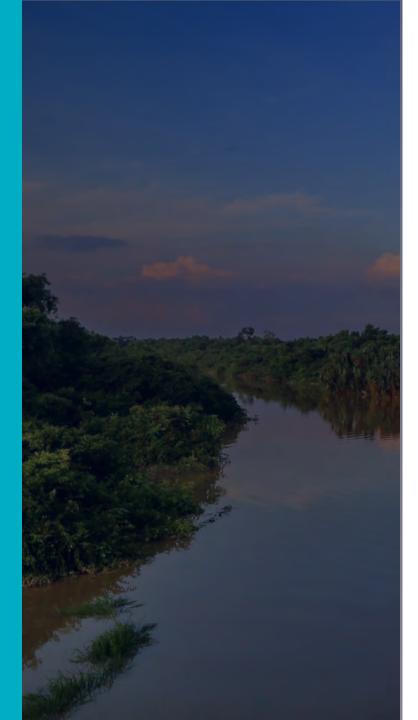
CCS

- Development of a 2TCF gas discovery & simultaneous CCS
- First CCS project deployed by Repsol and First in Indonesia.
- Among largest CCS projects worldwide today (only 6 CCS projects operating).
- Storage will commence in 2027 and will be done in two depleted gas fields of Corridor PSC contract (Gelam & Dayun).
- Main Challenges:
 - Regulatory Framework, but the MEMR in Indonesia has already created a Task Force with the objective to have CCS regulation in place by the end of 2021.
 - Financial: cost carried by partners, but captured & stored
 CO₂ could be subject of further trading.



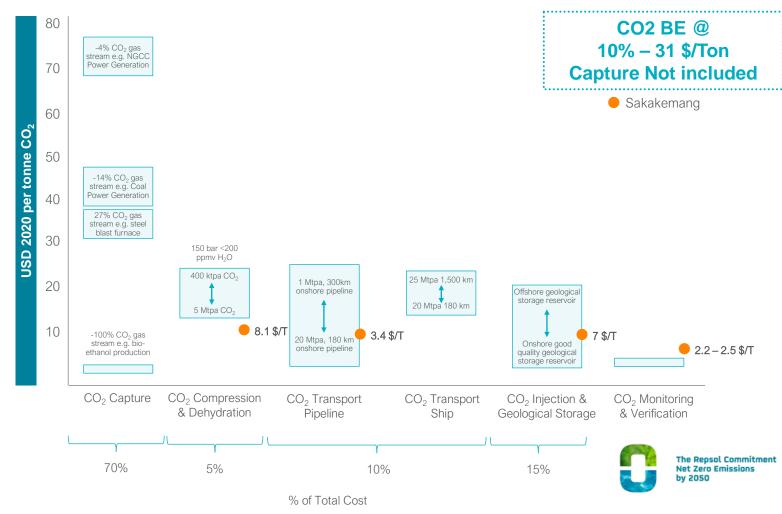




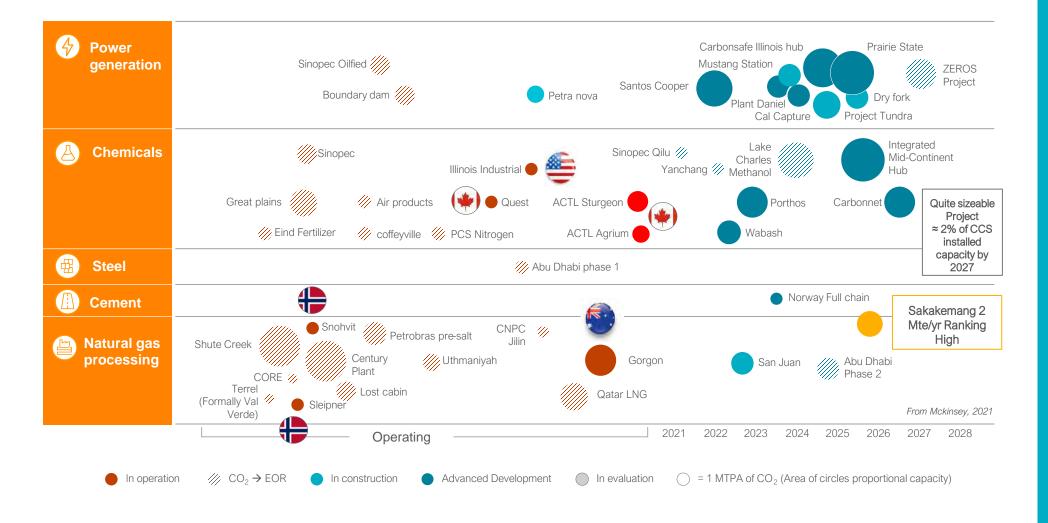


CCS (Carbon Pricing)





CCS worldwide benchmark





~40 Mte/ yr ↓ ~110 Mte/ yr

Today only 6 true CCS projects worldwide





CCS Technical Assesment





Low Carbon Day

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Low Carbon Day

Repsol decarbonization pathway: metrics & targets

Luis Cabra

EMD Energy Transition, Sustainability & Technology Deputy CEO





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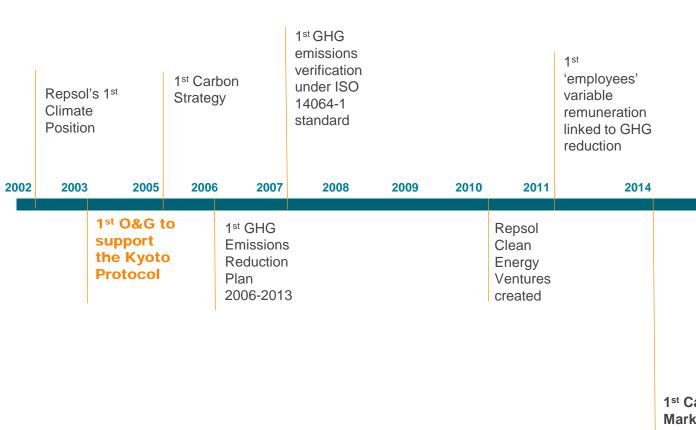
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Decarbonization is in Repsol's DNA



Support
Paris
Agreement.
Paris Pledge
for Action

2016

2017

Board Sustainability Committee

1st Capital
Market
Sustainability
Day

2015

2nd GHG Emissions Reduction Plan 2014-2020 World Bank
OGMP

ZRF by 2030

1st Global targets
Sustainability
Plan

(w/ Scope 3)
2020: 3%
2040: 40%

2018

Methane

Guiding

Internal

carbon

pricing

1st O&G company

issuing a

green bond

Principles

Cll reduction targets (w/ scope 3) 2020: 3%

SP2021-2025 (w/ reinforced decarb pathway)

3rd GHG emissions reduction plan 2021-2025

1st O&G company to commit to NZE 2050

Nov

2020

Dec

2019

Decarbonization pathway with interim targets



Credibility and engagement with ESG Stakeholders



Leading ESG company



Top grade (2020)



2/47- ESG Risk Rating Ranking (Integrated O&G 2021)



ESG rating - 1st quintile (2021)



Top grade (2020)

36.2%

Repsol's institutional shares managed by **ESG investors...**

VS

16%

Global Oil and Gas average (1)

ESG Reporting Roadmap (2)

Legal requirements

Spanish Law 11/2018

EU Taxonomy on Sustainable Finance (3)

Regulatory Technical Standards (4)

Spanish Climate Change Law

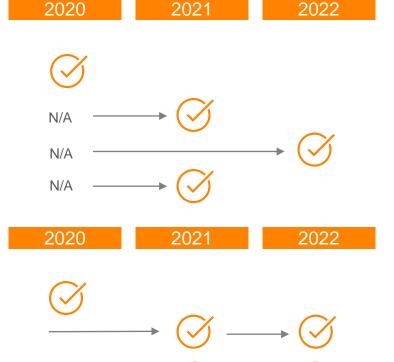
Reporting frameworks

GRI

SASB

TCFD

SCM (WEF-IBC-Big4)



- (1) More than 400 companies included in the average
- (2) Non-financial information in annual Integrated Management Report to Repsol's AGM
- (3) Mandatory reporting in IMR 2021 for taxonomy eligible activities, in IMR 2022 for taxonomy aligned activities
- (4) Mandatory reporting in 2022 for financial entities



A science-based decarbonization pathway and methodology: a package of KPI's with CII and more...



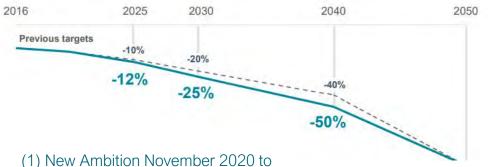
Carbon Intensity Indicator (CII) as key KPI

- Scope 3 based on primary energy
- In-house "substitution method" for renewables to account just for actual emissions avoided
- Interim CII targets, including short term (2020-2025-2030-2040)



- Other specific KPIs and targets: CO₂/barrel E&P, hydrogen & bio volumes, renewable GW, ...
- Transparent additional reporting as requested to allow homogeneous benchmarking vs. peers

Carbon Intensity indicator reduction target [gCO₂/MJ]



(1) New Ambition November 2020 to accelerate the path to Net zero emissions







Push (profitable) decarbonization to the limits

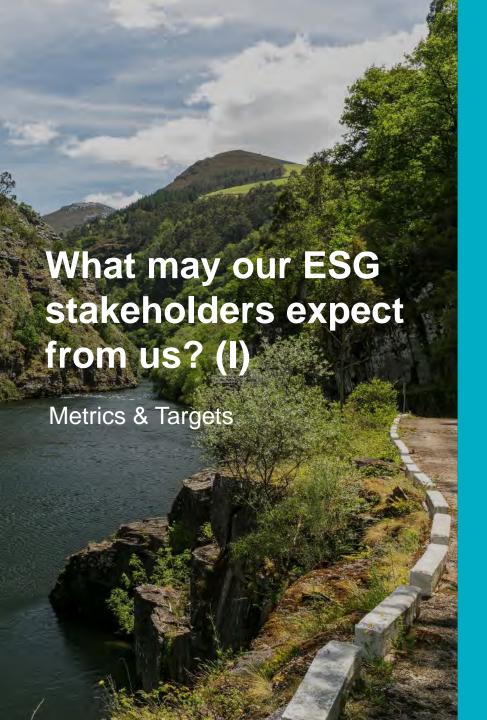
Metrics and targets

- Absolute emissions
- More detailed long-term scenario analysis
- Scope 3 methodology
- "Avoided" emissions

Capital allocation to low-carbon

Reinforced climate governance







A further reinforced decarbonisation pathway (CII), supported by business ambition

- Renewable H₂
- Renewable power generation

New absolute emissions targets 2030 and methane

- Scope 1+2 operated
- Scope 1+2+3 (net, equity)
- Methane emissions intensity E&P

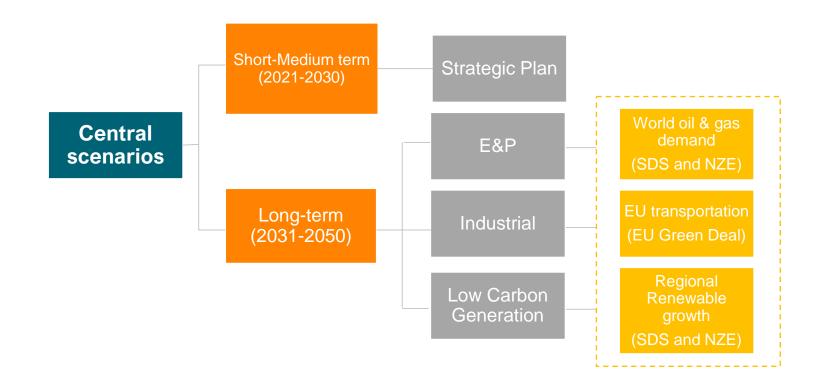
More, better reporting

- Scenario analysis details
- Continue delivering on our reporting roadmap milestones
- Proactive participation: SBTi, Net Zero Standard for O&G (IIGCC), benchmarks (CA100+, ...)
- CII based on sales

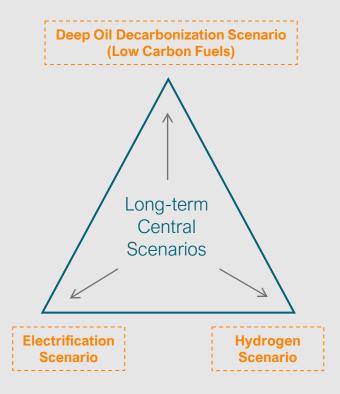


What may our ESG stakeholders expect from us? (II)

Metrics & targets: scenario analysis







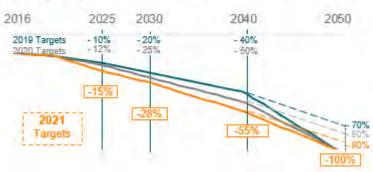


What may our ESG stakeholders expect from us? (III)



Metrics & targets: further reinforced decarbonization path (CII)

Carbon Intensity Indicator reduction targets [gCO₂/MJ]



CII reduction breakdown by lever 2030 vs. 2016 (%)



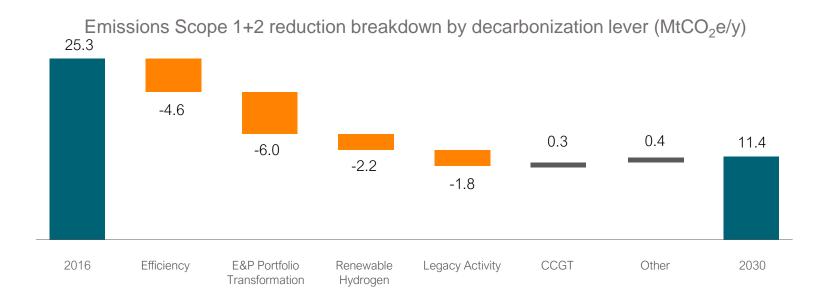


What may our ESG stakeholders expect from us? (IV)

New metrics & targets: absolute emissions

New target: 55% reduction operated emissions (scope 1+2) by 2030

New target: 30% reduction net emissions (scope 1+2+3) by 2030





New metrics & targets: methane intensity*

Reduction 2025 vs 2017 (%)



^{*} Operated methane emissions / marketed gas (% v/v)







Further reinforced climate governance

- The Board to submit climate strategy and targets to an advisory vote in the 2022 AGM
- Updated Association evaluation and report (July 2021)

Capital allocation

- In-house methodology for capex alignment guidance
 - In place since 2021 (as committed Dec.2019)
- Internal carbon price (Carbon incentive for new investments)



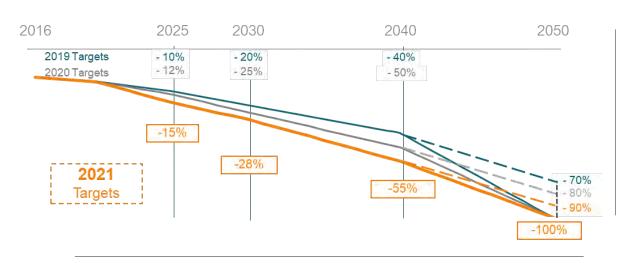


^{*} Based on EU ETS projections. For other regulated markets that may evolve, a similar methodology would be applied

Summary: Renewed decarbonization ambition



Carbon Intensity Indicator reduction targets [gCO₂/MJ]



Scope 18.2 operated emissions [Mt CO eq.]

Absolute emissions reduction (%)



Methane intensity reduction 2025 vs 2017 (%)



Reporting, Governance, Capital allocation

- Scenario analysis, benchmarkable metrics
- Advisory vote on climate strategy in the 2022 AGM
- Higher internal carbon price for new investments



