# Gitalgas

# STRATEGIC PLAN 2021-27 EMPOWERING OUR FUTURE

E-MARKET SDIR

**Rome** 15.06.2021





# ENERGY TRANSITION OUR FUTURE



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"I want Europe to become the first climate neutral continent in the world by 2050"

> U. Von Der Leyen EU Commission, President December 2019

"While we continue to battle the pandemic, we must also focus on our long-term challenges: this is why the Green Deal, as a growth strategy, remains our compass throughout the recovery"

> F. Timmermans EU Commission, Executive VP December 2020

# ENERGY TRANSITION KEY MILESTONES



# EU committed to a carbon neutral economy by 2050 both politically and economically



# **ENERGY TRANSITION** AT THE CORE OF EU POLICIES

€175-290bn a year of incremental investments necessary to reach decarbonization goals

## **Contribution of all sectors is paramount**





The EU is preparing a package of initiatives to reduce CO2. A general revision of gas market legislation is also targeted

**Biomethane** 

consumption



The revision of the gas market legislation includes how to facilitate the uptake of renewable gases



2030

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2050



Hydrogen may be transported via repurposed natural gas pipelines and / or newly built pipelines

6 NG

# **ITALIAN PNRR** RESOURCES AVAILABLE



# Energy transition is a tool to support economic recovery Italian PNRR to make new resources available



Green Revolution and Ecological Transition, €59.5bn

of which: Hydrogen €3.6bn < Biomethane €1.9bn < Energy efficiency €15.4bn < Water €4.4bn <



**Digitisation, Innovation, Competitiveness, Culture,** €40.3bn

of which:

> Transition 4.0 €13.4bn

> High tech content investments €0.3bn

HealthInc€15.6bnCol

Inclusion and Cohesion €19.8bn



# IMPLICATIONS FOR GAS SECTOR OF EU ACTIONS



# **ENERGY TRANSITION**

Gas to account for 20% of 2050 European energy consumption

Gas mix to include green hydrogen (33%) and biomethane/ blue hydrogen / e-gases (67%)

Gas infrastructures strategic to ensure **efficiency of the energy system** 

Investments needed to **guarantee flexibility**, through gas and electric systems integration **Green gases production should rapidly increase** to meet decarbonization target

Gas infrastructures should be able to **manage dynamic changes of gas blending** 

**Entire gas value chain** including both T&D and storage needs to evolve

Gas and electric infrastructures should be able to cooperate effectively ("sector coupling")

# **GAS DEMAND** EXPECTATIONS REAFFIRMED



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# Gas to provide the needed energy supply flexibility

EU Gas demand – ENTSOG high demand cases analysis



Gas demand to become more dependent from RES performance at peaks

Cold spells coupled with low RES to require high gas peaking capacity also in 2040

Source: ENTSOG, Scenarios BE – Best estimate, NT – National Trends, GA – Global Ambition, DE – Distribution Energy

The "2-week demand" refers to a two-week period during a cold spell resulting in high heating demand.

"Dunkelflaute" expresses a climate case, where in addition to a 2-week cold spell, variable RES electricity generation is low due to the lack of wind and sunlight.

# **GAS NETWORKS** KEY ROLE IN ENERGY TRANSITION

Enable a cost-effective decarbonisation, balancing short-term and long-term needs of energy markets



ALREADY DEVELOPED, STABLE AND WIDE-SPREAD INFRASTRUCTURE ~2mln km of pipelines 2,000 gas DSOs and 45 gas TSOs



ACCELERATOR IN THE DEVELOPMENT OF RENEWABLE AND LOW CARBON GASES





STRATEGIC ROLE FOR FLEXIBILITY AND SECURITY OF SUPPLY OVER TIME AND SPACE Schematic annual profile of PV production vs gas load



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2020-30 BIOMETHANE THE CLOSER VIABLE GREEN OPTION

Biomethane accounts for 5% of EU gas demand, It is the most significant green gas source but still below its potential

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# IN EUROPE<br/>CAPACITY KEEPS<br/>GROWING48348348320182018

#### AND PROSPECTS ARE ALSO STRONG IN ITALY

- Over 30 operative biomethane injection points on the Italian gas network
- ~90% biomethane plants produce methane from organic waste and agri-food waste sources
- Significant economic incentive framework (certificates guaranteed for 10 years)



\* EBA, \*\* Italgas' estimates based on the biomethane total volume production from 81 plants, either in operation (31) or in progress (50)

# 2030-40 HYDROGEN MOMENTUM BUILDING

EU leading the race also on the legislative side

Production costs could fall quicker than anticipated

but

Green hydrogen is not expected to be competitive before 2030

# More than 200 projects for >\$80bn announced globaliy

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Source: Italgas elaboration on IRENA data

# **GAS DSOs** NEW CHALLENGES AND OPPORTUNITIES

DSOs need to adapt their strategies Networks upgrade necessary to distribute new gases, to support energy efficiency and cut methane emissions

Build new infrastructure, network repurposing & retrofitting to dispatch green gases

> Digitization of operations and smart tools implementation



Prominent role in circular economy thanks to proximity to end customers and distributed production units of green gases

> Environmental responsibility through methane emissions management, considering an upcoming stricter regulation



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# NETWORKS A TANGIBLE CHANGE IN PARADIGM

Upgrade and repurposing combined with digitization to allow distribution/injection of green gases as well as reduce costs, increase efficiency and reliability



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#### Smart meters replacement plan near completion



# Step-up in digitization deployment





+5,000 digital assets, including gas analysers segmentation valves and odorization plants



# **DIGITIZATION** CORNERSTONE OF OUR CAPEX PLAN



# Digitization to benefit the gas distribution system in several ways





Safer operations

Safer operations foster service continuity Consumption data

More accurate and updated consumption data enable proactive behaviors and predictive maintenance Efficiency gains both on opex and capex resulting in savings for the system

Efficiency

gains

Strict emission control

Crucial for reaching EU ambitious decarbonization targets

**Green gases** 

Enabler for injection of renewable and low carbon gases

# **DIGITIZATION** IoT, BIG DATA AND DIGITAL FOR GAS SMART NETWORKS

Smart gas networks enable an evolution in infrastructure management towards realtime, optimized and seamless operations



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# **2030-40 HYDROGEN** ITALGAS H<sub>2</sub> PROJECT



Basic design completed; permitting & procurement ongoing expected to be in operation in 2022 H<sub>2</sub> P2G project aimed at testing the entire green hydrogen value chain, including implications on equipment

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# Shortlisted by MISE as eligible for European funds (IPCEI)



# **R&D** DESIGN NEW DIGITAL SMART METERS

Development of a new hydrogen ready smart meter to improve performance, guarantee security and benefit from standardisation



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# **NETWORK**, REPURPOSING & UPGRADE



# Network spending, well balanced between repurposing and extensions

~€3.4bn CAPEX





Extensions and new grids



Maintenance

of existing

network



Sardinia

new grids



Technical Innovation and energy efficiency









# **NETWORK DEVELOPMENT** TO ALLOW GAS TO REACH NEW CUSTOMERS

#### SARDEGNA

#### New fully digital native network

900km built starting from 2018 out of 1,100km of new grid planned

> 45k active meters\* potential market 200.000\*\*

~€0.3bn

CAPEX



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#### TORINO, VALLE D'AOSTA, BELLUNO

#### Network development of won tenders

# **~€1bn** CAPEX

#### **EXISTING NETWORK**

\* LPG / GNL to be converted to GNL / Natural gas \*\* GNL / natural gas

# TENDERS THE TIMELINE



Opportunity for investment and digital transformation, but timing subject to political decisions



■ 2017-23 Plan ■ 2018-24 Plan ■ 2019-25 Plan ■ 2020-26 Plan ■ 2021-27 Plan





## **ESCO** STRONG ENERGY SAVINGS MARKET OUTLOOK



Outlook for the Italian energy efficiency market is very strong Efficiency in residential buildings is core to achieve EU targets Highly fragmented market







Residential sector accounts for ~35% of the 2030 target

Residential buildings in Italy

Older than 45 years

Currently very low energy efficiency needs robust requalification initiatives



## **ESCO** FROM NEW OPPORTUNITY TO REALITY



#### **Delivering on announced strategy**



#### **NOW 1 COMPANY**

- Seaside and Toscana Energia Green completed the merger
- **High potential** thanks to complementary businesses (geography, customer base)
- Focus on Buildings energy renovation and Digital Services

## **INTERNAL EFFORT**

- Support Italgas energy transition, providing services within the Group
- Key asset for tenders

## **EXTERNAL OPPORTUNTIES**

- M&A initiatives to expand the scale of services offered and to consolidate a fragmented sector gaining economies of scale
- Ceresa acquisition



# **ESCO** FROM NEW OPPORTUNITY TO REALITY

#### **Growing EBITDA contribution**

# M&A: CERESA (14/06/21)

- Operates in buildings energy efficiency with a focus on heat management
- Founded in 1921
- Mainly operates in the Northwest Italy with 27 employees.
- Serves a large customer portfolio (3,651 customers, mainly in individuals and condominiums).





**REVENUES** 

>€700mn

TOTAL

CUMULATED

**POTENTIAL\*** 

29

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~€100mn

CAPEX\*



# POTENTIAL GROWTH OUTSIDE ITALY MONITORING OPPORTUNITIES

Italgas has been shortlisted for DEPA privatization in Greece Offer due date July 15, closing expected before year end

**EDA Thess** DEPA infrastructure assets **EDA Attiki** DEDA 3

# FITS WITH INVESTMENT CRITERIA

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- Comparable sovereign risk
- Ability to exercise an industrial role significant network development digital transformation
- Visible and established regulatory framework
- Similar-risk adjusted returns to Italy

# WATER CONFIRMING TARGETS



# Total water distribution market in Italy 27bcm, of which 20% for civil uses



\* For civil uses only, Source: Istat, Utilitas Blue Book 2019, MIP Energy Strategy Group Water Management Report 2018.

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# WATER CONFIRMING TARGETS

Italgas Acqua

# **ITALGAS ACQUA**

Serving 5 municipalities in the province of Caserta 100% of the network remotely controlled

# Best practices in gas network management applied to water networks

>€250mn CUMULATED POTENTIAL 2021-27

**REVENUES** 

# **ADVANTAGES**

- Deep understanding of the regulation and knowledge of the business
- **★ Expertise in managing** pipeline networks
- ★ Opportunity to digitise new grids replicating what already done by Italgas
- ★ Solid expertise in water leakages management and reduction, also thanks to Takadu partnership
- **★ Sustainability** focus

#### 2019 Network Assessment 2020 Network Design

#### **Plan Period**

CEM technology implementation NB-IoT smart meters deployment

# **NEWCO ICT** ACCELERATOR OF **INNOVATION**



**Competence centre for the entire group**, unlocking value of proprietary solutions in the market



**Rationalisation of all ICT activities** previously run by different group entities into a NewCo fully owned by Italgas



Acceleration of technological innovation and digitization

**Simplified** ICT organization

Agile vehicle

Unique reference for companies of the Group

Clearer focus on economics

~100 RESOURCES ASSETS €100mn

**ADVANTAGES** 

# **NEWCO ICT** INTERNAL AND EXTERNAL OPPORTUNITIES



# Potential to sell technological solutions developed and tested by Italgas to third Parties

# **DESIGNED FOR ITALGAS**



- Test and learn
- Customization and development of proprietary solutions
- Piloting



## **Run and improve**

- Roll-out at scale to capture operational efficiencies
- **Monitoring** for continuous improvements and
- Evolved operating model

# **OFFERED TO THIRD PARTIES**



Go to market

Productization of selected solutions for third parties such as:

- SaaS solutions supporting client's needs
- Turn-key services offered by Italgas
- **Opportunity** to leverage the Italgas agile delivery model in the Digital Factory





(1) €0.4bn is M&A in the No Tenders scenario, while in the Tender scenario is reduced to €0.3bn

**CAPEX PLAN** 2021-27 +58% IN 5 YEARS



# Increase in spending related to core assets and digitization

+58% in 2021-27 vs 2017-23



(\*) Including metering (\*\*) Including centralised capex, Sardinia, expansion of gas distribution perimeter

# **GROWTH** SUPERIOR RAB GROWTH



# Growth in RAB and redelivery points driven by organic investments, M&A and tenders





RAB referred to the year end T - revenues in the year T+1, gas distribution only Average deflator over the plan period assumed at 1.8%, starting from 1.2% in 2021



Identified specific initiatives, made possible also by digitization

Picarro boosts emissions reduction



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FY 2027

# HRO STRATEGY TO SUPPORT GROWTH



# **3 pillars HRO based strategy designed to sustain people development and industrial growth**

#### ENGAGEMENT & CHANGE MANAGEMENT

# Strengthen engagement and facilitate change management

Learning Academy



#### SUSTAINABILITY & INCLUSION

# Improve business sustainability and inclusion

- Smart working, start from home & office transformation
- Safety focus
- Listening (Inclusion Manager),
- Welfare upgrade
- Ambassadors & contamination
- Employee as a stakeholder

#### OPERATIONAL EFFICIENCIES

#### Operational efficiencies leveraging on digitization



# **INSOURCING** OF STRATEGIC ACTIVITIES



Insourcing of core activities previously managed by 3<sup>rd</sup> Parties New activities created by digitization People reskilling and upskilling to empower strategic know-how and deliver excellence

#### **ACTIVITIES ALREADY INSOURCED**

2021

- $\checkmark$  Leak detection and repair
  - ✓ Metrological inspections
  - Quote issuing activity
    - / On-site inspections
    - Smart meters batteries replacement
  - Risers

Construction engineering

# Currently externalized

## • Digitized assets maintenance

TO BE INSOURCED OVER PLAN PERIOD

- New, driven by digitization
- New activities yet to be identified



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+

Leveraging on people growth and HR 🔊

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# **PEOPLE** KEY TARGETS



	Gender equality new hires	50%	Women in responsibility roles	25%
100 digital 50 sustainability 30 inclusivity ambassadors 30 inclusivity	Total hours to training in 2021-27	600k hours	Employees in welfare	>75%
Increase in Smart Office & Smart working	of which digital learning	250k hours	Learning hours/employee/yr	<b>38 hours</b>
Development of Italgas Academy	Engagement in Net Promoter Score (NPS)	>80%	New hires under 30 years old	<b>60%</b> + <sup>480</sup> 43



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**FINANCIAL STRATEGY** A KEY SOURCE OF VALUE CREATION

Sustainable finance sources

Support capex growth maintaining flexibility

Preserve a solid investment grade profile



INANCIALS 44

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# **FINANCIAL STRATEGY** A KEY SOURCE OF VALUE

Limited refinancing needs and ample liquidity buffer

Low exposure to interest rates volatility and long debt tenor

Best in class cost of debt of ~1% over plan period

#### **Debt Maturities**



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#### 1Q 2021 Gross Debt Structure\*



## **CREDIT METRICS** MOODY'S Baa2 FITCH BBB+



# Credit metrics remain within range throughout the plan





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(\*) Cumulated over 2021-27 compared with a scenario of no digitization investments, more than €260mn since 2019

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# DISTRIBUTION COSTS FURTHER EFFICIENCIES WITH TENDERS

Efficiencies driven by technological innovation and digitization

**Offset X-factor impact** 

Tenders will drive higher economies of scale and optimised geographical footprint

#### **Distribution operating expenses without tenders\***



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#### Unit cost per redelivery point\*\*



<sup>(\*)</sup> without M&A and other activities, (\*\*) net of pass though

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		2021		2024	2027	
	€ mn					
	Revenues	>1.35bn	Revenues	~1.9bn	~2.1bn	
	EBITDA	~1.0bn	EBITDA	~1.37bn	~1.6bn	
	EBIT	560-580	EBIT/RAB*	~7.5%	~8.2%	
	Capex	850-900	<b>Consolidated RAB</b>	10.5bn	11.9bn	
	Net Debt with IFRS 16	~5bn	FFO / RAB	10%	10%	
	Leverage	~61%	Leverage	~62%	~60%	
· Ora distribution and					FINANCIALS 4	9

\* Gas distribution only

# **DIVIDEND POLICY** CONFIRMED





- ✓ DPS equal to 65% payout on
  Adjusted Net Income
- ✓ DPS 2019 +4% per annum



Dividend per share (€)





# **EMPOWERING OUR FUTURE**



# **Foster Energy Transition**

Foster the development, injection and at scale usage of green gases.

# **Smart Gas Networks**

Network upgrade and repurposing to reduce costs, increase efficiencies and resilience, enable green gases distribution, via digital transformation.





# **Emission reduction and energy efficiency**

Decarbonization of operations and full deployment of energy efficiency initiatives within the Group and versus the external market

# **External growth / New opportunities**

M&A initiatives (in Italy and abroad), tenders to grow in the gas distribution, leverage on existing internal capabilities to grow further (Water, ICT)





# **Financial Structure & Shareholders' Returns**

To ensure value creation, support growth opportunities and guarantee a robust shareholder's return















MAIN NUMBE	RS	
	OPERATING HIGHLIGHTS (TOTAL)	OF WHICH AFFILIATES
Network length	73,319 km	1,877 km
Municipalities	1,888	61
<b>Redelivery Points</b>	7.750 mn	0.153 mn
Market Share <sup>(1)</sup>	35%	0.1%



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# **ITALY GAS DEMAND** EXPECTATIONS REAFFIRMED



#### Networks to accommodate new green gases



Source: Italgas elaboration on Snam 2020 TCFD, PNIEC 2019 and ENEA

# **SUSTAINABILITY** AT THE CORE OF OUR ACTIONS



**Committed to performance improvement and ESG culture. New targets set integrating Sustainability Plan pillars** 

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- Decarbonization of operations and reduction of energy consumption Network digitization to accommodate green gases
- Ongoing Sardinia methanization
- Scale-up of the Power to Gas project

#### SOCIAL

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GOALS

- People empowerment and safety, also considering impact from COVID-19
- Diversity and equal opportunities promotion
- Improvement of the relation with final customers, sales companies and suppliers
- Promotion of social innovation through education (digital divide, cultural projects)

#### GOVERNANCE

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- ESG KPIs in top management remuneration
- Integrated Annual Report
- 67% Independence of the board
- Improved focus on ESG and climate change issues in Enterprise Risk Management
- Valorisation of sustainability and gas advocacy on national and international round tables (e.g. GD4S and OGMP)



# 2020-30 **BIOMETHANE** THE CLOSER **VIABLE GREEN OPTION**

**Connections requests keep raising. Italgas received 38** preliminary requests for connections since 2017. Need to consider "reverse flow ops"

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#### \* criteria set by Italgas, \*\* economic contribution from the biomethane supplier

Italy request for connections



33

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points (~290 Mln Sm<sup>3</sup>/y) In operation biomethane

injection points (~350 Mln  $Sm^{3}/y$ )

#### **Of which on Italgas' network**

Preliminary feasibility requests on ITG network

Formal requests quotation for connections on ITG network

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