

AFRY Biomethane Services

Capability Statement

JUNE 2025



Agenda

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3.	AFRY's approach	16
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At AFRY we accelerate the transition towards a sustainable society. Our vision is Making Future

EMPLOYEES GLOBALLY

~ 19,000

(2024)

NET SALES

~ € 2.5 bn

(2024)

NUMBER OF COUNTRIES WITH OFFICES

> 50

NUMBER OF COUNTRIES WITH PROJECTS

> 100



AFRY CORE EXPERTISE







DIGITALISATION

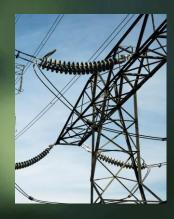


AFRY is organised in five divisions, with significant opportunities for synergy



MANAGEMENT CONSULTING

- Energy
- Bioindustry
- Sustainability
- Capital investment banking



ENERGY

- Thermal
- Renewables
- Hydro
- T&D
- Nuclear
- Contracting



INFRASTRUCTURE

- Transportation
- Buildings
- Water
- Environment
- Architecture & Design
- Digital design



INDUSTRIAL & DIGITAL SOLUTIONS

- Advanced Automation
- Automotive R&D
- Experience Design
- Food & Pharma
- Specialised Tech Services
- Systems Management
- Cyber security



PROCESS INDUSTRIES

- Metal & Mining
- Pulp and Paper
- Chemicals
- Smart Site TM & Digitalisation



AFRY Management Consulting offices: a global presence





About AFRY Energy consulting team: leading advisor for the transition of the energy sector



In numbers

>500 management consultants

5 continents

33 offices



Offering

Forward looking market analysis

M&A¹ and Transaction Services

Strategic advice

Operational and digital transformation

Close cooperation with the engineering, design, and digitalisation teams at AFRY





HYDROGEN & LOW CARBON GASES

- Biomethane
- Feedstock
- Digestate
- CCS / CCU²
- Green hydrogen
- Hydrogen storage
- Ammonia & methanol



POWER & HEAT GENERATION

- Thermal generation (coal, gas, nuclear...)
- Grid scale renewables (wind, solar, bioenergy)
- Hydro power & storage
- Waste to energy
- (green) district heating
- PPAs³



NETWORKS

- Transmission (electricity)
- Distribution
- Smart- grids and metering
- EV⁴ infrastructure
- System operation
- Market operation



FUTURE CITIES & MOBILITY

- EV charging
- Decarbonization of cities and transport
- New mobility services
- Smart city solutions and efficient Buildings



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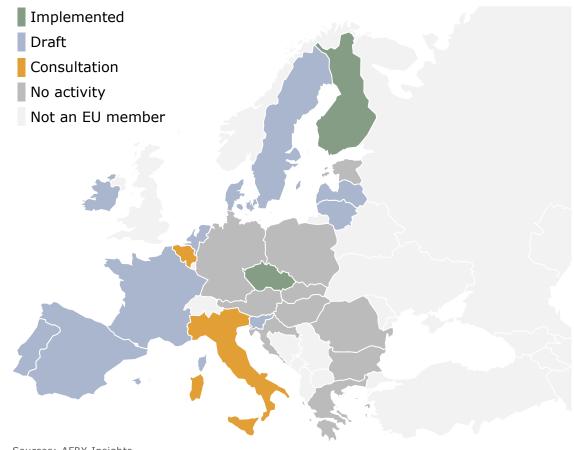






Updated rules and goals for biomethane use in transport and heating may be introduced with the conversion of RED III to national law over the coming months

OVERVIEW OF RED III IMPLEMENTATION, MAY 2025



COMMENTARY

- The biomethane target set by REPowerEU has been then included within the revised Renewable Energy Directive (RED III), which prescribes measures and goals to increase adoption of renewable energy across different sectors
- Among the others, the directive calls for an additional focus on biomethane, with more ambitious goals for its consumption and stricter sustainability criteria
- The RED III officially entered into force on 20 November 2023, with an 18-month period to transpose directive's provisions into national law
- Yet, at the time of writing, many Member States are lagging for the implementation of RED III into national legislation, despite the official deadline being expired by 21 May 2025
- Over the coming years, the update of national laws is expected to change the status quo of the biomethane market, considering:
 - Increased targets for renewable energy used in the whole transport sector and a dedicated alternative target for GHG reduction, which may push further the adoption of carbonnegative fuels such as biomethane
 - Stricter mandates in the industrial sector and a strengthened relationship with the ETS for inclusion of biomethane in zerorated fuels, including biomethane



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A range of routes to market options is available to biomethane suppliers in Italy, with different exposure to price and volume risks



INCENTIVISED

- Under the incentivised route, biomethane suppliers receive a top-up payment above the fossil fuel price
- This provides certainty over prices and volumes, typically over +10 years

HYBRID

- Under the hybrid route, biomethane suppliers receive a top-up payment above the fossil fuel price, however they are responsible for securing an offtake agreement
- This partly exposes suppliers to price and volume risks

MERCHANT / BPA

- Under the merchant route, biomethane suppliers are responsible for securing an offtake agreement
- This typically allows suppliers to secure agreements for export1, targeting market segments where the product is valued the most

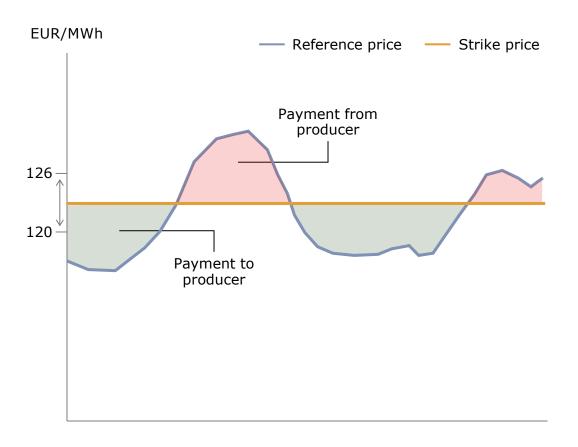






Through the DM 2022 incentive scheme, biomethane suppliers are partially hedged against price shocks, through a contract for difference mechanism

BIOMETHANE PRICE DRIVERS UNDER DM 2022 SCHEME



COMMENTARY

- The Italian Ministerial Decree introduced in September 2022 (DM 2022) supports biomethane production with grants up to 40% of eligible capital costs and 15-year incentive payments
- The scheme targets new plants or the reconversion of biogas plants to biomethane
- Under the scheme, biomethane prices are driven by the two-way
 Contract for Difference (CfD). Biomethane suppliers receive the strike price, determined competitively through auctions
- The payment from/to suppliers is based in the difference between the strike price and the reference price, which can fluctuate based on market developments
- Based on the plant size, the actual CfD remuneration may differ since suppliers may be responsible for striking contracts directly with buyers



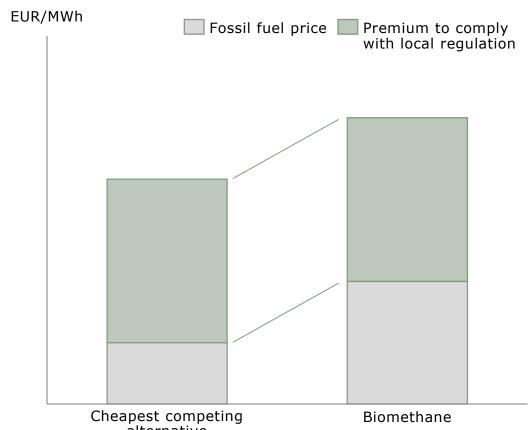
Note: 1) Further details provided in Section 6. Sources: DM 15 September 2022.





The drivers of biomethane sold on a merchant basis are the price of fossil molecules and of competing solutions to comply with local regulation

BIOMETHANE PRICE DRIVERS UNDER MERCHANT ROUTE



Note: 1) Further details provided in Section 6

COMMENTARY

- The price of biomethane/bioLNG sold on a merchant basis is driven by two factors:
 - The price of the fossil molecule, based on the relevant natural gas price (e.g., TTF, PSV, or LNG for bioLNG)
 - The minimum price of competing alternatives required to comply with mandates set by the local regulation
- The price required to comply with the regulation is highly dependent on the end-use sector, given that different mandates and competing alternatives are available for transport and heating
- Ultimately, this could lead to biomethane prices being significantly different between the two end-use sectors



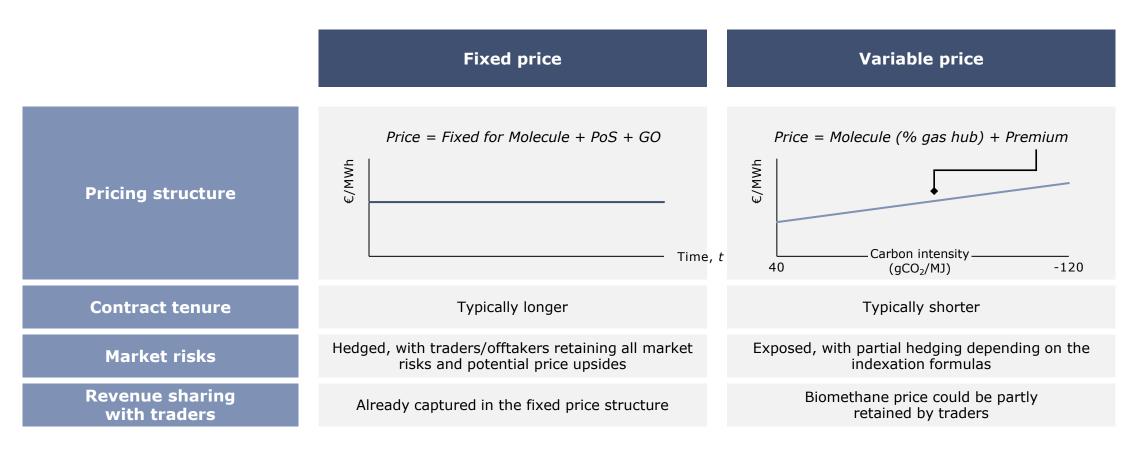






The price granted to the supplier will depend on the type of pricing formula, with terms and risks differing between fixed and variable price contracts

OVERVIEW OF BPA PRICING STRUCTURE AND TERMS



Notes: 1) Depending on the offtake country the premium may be linked to the product carbon intensity or indexed to the evolution of competing biofuels.







Feedstock prices are a key driver of project margins, with livestock, agriindustrial and crops costs being driven by external factors such as the PSV

COMMENTS MAJOR COST DRIVERS Energy costs can halter single product prices in the feedstock market. Among them, the Italian index for gas ("PSV - Punto di Scambio Virtuale") has been taken as reference, as it is indirectly **PSV** impacted by other major reference energy products (TTF for Gas and Brent for Oil) Fertilisers cover up to 25-30% of total harvest costs for several crops. Their cost evolution can indeed halter end products costs. Being manufactured within chemical **FERTILISER** production processes which are gas-intensive (i.e. Haber Bosch for Ammonia used as input for Urea)¹, we can expect their price evolution following the gas markets. Electricity prices can impact specific farming practices, impacting heavily their operating costs. As **PUN** an index for power prices in Italy the "Prezzo Nazionale Unico" has been taken as reference. Inflation can be a significant cost driver in markets with historically stable dynamics. Feedstock **INFLATION** which have shown stability in their historical values would be indexed to eurozone inflation

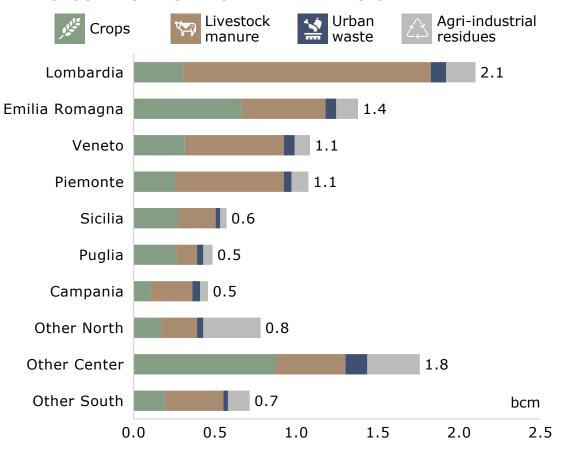






Feedstock logistics and economics must be assessed carefully, given their uneven distribution and different market structure across regions

FEEDSTOCK TECHNICAL POTENTIAL BY REGION



COMMENTS

- With 1.52 bcm from livestock manure, Lombardia reflects its dense dairy and meat farming sector. It dominates Northern Italy's biomethane potential from manure, consistent with its strong agricultural industrialisation
- Similarly, both Veneto and Piemonte show solid manure and crop contributions, supporting versatile feedstock strategies for local biomethane scaling through co-digestion. Northern Italy could also unfold a strong biomethane potential from agro residues, e.g., driven by alpine dairy, fruit, and beverage sectors
- Emilia Romagna and other regions in Central Italy could unfold a nearly 1.2 bcm potential of in crops and agro-industrial residues, highlighting their fertile plains and active food processing, especially in cereals
- Sicilia, Puglia, and Campania display more balanced but lower feedstock values. Their warmer climates and fragmented farms limit large-scale livestock and crop residue availability, yet they still contribute via urban waste and niche crops
- Overall, feedstock logistics and economics, including the presence of potential gate fees, shall be properly assessed at local level given their uneven distribution and market structure across regions



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AFRY is the ideal partner to Clients investing in the biomethane sector thanks to in-depth knowledge of the market and transaction experience

KEY SUCCESS FACTORS

HOW AFRY WILL GUARANTEE THEM



In-depth knowledge of the Italian biomethane sector

The Client will receive clear recommendations on the Target based on AFRY's extensive knowledge and experience in delivering assessments of biomethane plants and operators in Italy



Multi-disciplinary approach

The business model evaluation of biomethane plants/companies requires an understanding of commercial, regulatory and technical drivers. AFRY offers a multidisciplinary team able to provide the Client with a credible view based on multiple aspects



Consolidated transaction experience

With its years of experience providing Due Diligence services, AFRY guarantees efficient and smooth support of the overall process. We possess cutting-edge competence to critically assess the Client business plan and evaluate potential opportunities and challenges



Knowledge of the gas market

AFRY has deep-understanding of gas market dynamics and is able to provide a credible view on the evolution of natural gas prices, thanks to its proprietary tool Pegasus



AFRY has developed detailed understanding of the market thanks to the experience gained collaborating with a wide-range of clients

AFRY SELECTED CLIENTS

TOTAL



//meridiam



















e.on



solør**bioenergi**









green **arrow**



INFRASTRUTTURE



Scandinavianbiogas



PIONEER









SCOPE IN SELECTED AFRY PROJECTS









Strategic Consulting

Business case analysis











Feedstock assessment



Commercial due

diligence







Technical due diligence







AFRY offers an integrated and multidisciplinary approach to address the commercial, regulatory and technical challenges faced by investors

OUR APPROACH

Market context

Market growth forecasts Analysis of the market structure and competition in the sector

Prices

Commodity and feedstock price projections Certificates/Guarantees of Origins price forecasts Merchant price forecasts

Regulation

Compliance analysis against regional norms and regulations Assessment of the permitting/authorisation process



Commercial drivers

Revenues and profitability assessment Considerations on market position and competitiveness

Feedstock availability

Assessment of the feedstock supply Gate fees evaluation

Technical barriers

Analysis of the technical integrity of an asset Best practice assessment Assessment of the connection request status



With its years of experience providing Due Diligence services, AFRY guarantees efficient and smooth support of the transaction process

DUE DILIGENCE WORKSTREAMS

COMMERCIAL

- Assessing the revenues and profitability of business
- · Identification of key drivers and risks
- Opine on market position and competitiveness

TECHNICAL

and their

costs and

Form views of

compliance with

industrial norms

and best practices Assess future

investment needs

integrity of assets



EHS / ESG / REGULATORY

- Ensuring the compliance of business and operations with the regional norms and regulations, and the adequacy of systems as per industry norms
- Estimation of future risks or costs arising from EHS / ESG or regulatory changes

WHY WE ARE CHOOSEN

People Expertise





A dynamic team with cross-functional expertise, capable of understanding client needs and efficient and guaranteeing smooth support to the entire Due Diligence process.

Proven Approach





Utilizing a tested 3-phase approach to identify and quantify value and potential risks, supported by ongoing market intelligence.





Tangible Results

Proven track records of assisting client on successful acquisition of high value projects





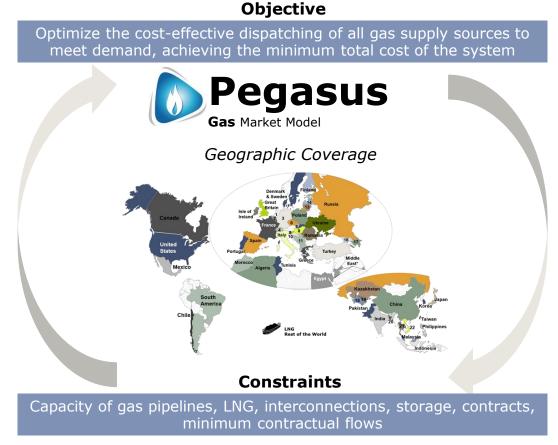
Sector Experience

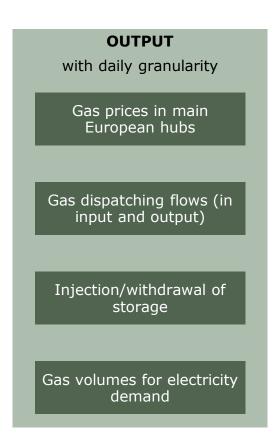
Experienced in providing transaction advisory in a variety of energy and infrastructure sectors, including biomethane production.



AFRY can assist the Client in the commercial assessment of the opportunity, including on the evolution of gas prices estimated through our tool Pegasus







Pegasus provides all the necessary elements to understand the gas market fundamentals in the short-medium to long-term



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AFRY has recently conducted several Due Diligences and market analysis on biogas and biomethane assets, with a focus on Italy (1/5)

		Country	Year	Area			
Project summary	Client			Tech.	Comm./ Market	Reg.	
Technical and feedstock market due diligence for two biomethane plants in Italy	Investment fund	IT	2025	√			
Commercial vendor due diligence on a portfolio of biomethane/biogas plants	O&G player	IT	2025		✓		
Technical and Feedstock due diligence of Verdalia's biomethane plants portfolio in Italy and Spain	Verdalia	IT	2025	✓			
Feedstock price projections assuming different climate change scenarios, including analysis of the feedstock availability	International industrial player	IT	2024		√		
Technical buyer due diligence on portfolio of biomethane plants in the south of Italy, including a detailed analysis on feedstock prices	International industrial player	IT	2024	✓			
Organizational project finance due diligence on the new operational structure of a newly created company, post-acquisition	Industrial player	IT	2024		√	√	
Market, commercial, technical, regulatory and organizational vendor due diligence on a portfolio of biomethane plants	Italian biomethane producer	IT	2024	✓	√	✓	
Technical and commercial project finance due diligence on a biomethane plant, with a particular focus on the feedstock contracts	Italian biomethane producer	IT	2024	√	√		
Market and commercial vendor due-diligence for an Italian bioLNG producer	Italian bioLNG producer	IT	2024		√	√	



AFRY has recently conducted several Due Diligences and market analysis on biogas and biomethane assets, with a focus on Italy (2/5)

				Area			
Project summary	Client	Country	Year	Tech.	Comm./ Market	Reg.	
Guarantees of Origin price projections considering both transport and industrial use	Industrial player	IT	2024		✓		
Technical buyer due diligence on a biomethane plant in north Italy, with potential	Green fund	IT	2024	\checkmark			
Analysis of the Italian biogas and biomethane market, including market analysis on different feedstocks	Major investment bank	ΙΤ	2023		✓	✓	
Market horizon analysis covering multiple EU biomethane market analysis, supply/demand, regulatory, subsidy mechanism and indicative prices ranges	Energy fund	Europe incl. IT	2023		✓	✓	
Technical, regulatory buyer due diligence of a biomethane plants developer involved in a project finance scheme	Italian biomethane player	IT	2023	✓		✓	
Italian biogas and biomethane market analysis, with focus on feedstocks market	Major investment fund	IT	2023		✓	✓	
Technical and regulatory buyer due diligence on a portfolio of biomethane plants, including a particular focus on the profitability	Green fund	IT	2023	\checkmark		✓	
Evaluation of the fair market value of a plant using both economic and operational performance parameters	Italian biomethane player	IT	2023		√		
Buyer due diligence of a portfolio of projects for conversion of biogas plants to biomethane production plants, falling under the "second" incentive system, with particular support in identifying plant solutions	Confidential	ΙΤ	2023	√		√	



AFRY has recently conducted several Due Diligences and market analysis on biogas and biomethane assets, with a focus on Italy (3/5)

				Area		
Project summary	Client	Country	Year	Tech.	Comm./ Market	Reg.
Assessment of demand, supply and production costs of biogenic CO2 (by product of biomethane production) and competitive comparison with industrially produced CO2	Leading player in electricity generation	IT	2022		√	
In the context of a project financing transaction, periodic monitoring services (under construction and operation) of a portfolio of plants	Confidential	IT	2022	✓		
Projection of CIC prices after regulated price period, based on a merit order of biomethane technologies and an expected fuel demand	Leading player in electricity generation	IT	2022	✓	√	
Regulatory & market study focused on the biomethane value chain in Italy, key actors, actual and under-development plants to evaluate client's positioning	Major energy playe	r IT	2022		✓	√
Buyer DD focused on the profitability of converting 5 existing biogas plants in biomethane reviewing regulation, market, technology & vendor business plan	Equity investor	IT	2022	✓	✓	√
Biomethane regulatory and market study to support the client during a preliminary assessment of an acquisition of 8 biomethane projects	EU biometh. player	IT	2022		√	\checkmark
Technical buyer due diligence and analysis of the legislative and regulatory framework, with a focus on the Biomethane for Transport Incentive Decree, and analysis of the target market for the gas produced (grid or LNG)	Green Arrow Capital Sgr	IT	2022	✓		√
Techno-economic evaluation of biogas/biometh. value chain including feedstocks, AD and upgrading technologies, EU production potential, LCOB, and EU countries scoring for developing new projects or acquiring existing plants		EU	2022	✓	✓	✓



AFRY has recently conducted several Due Diligences and market analysis on biogas and biomethane assets, with a focus on Italy (4/5)

				Area		
Project summary	Client	Country	Year	Tech.	Comm./ Market	Reg.
Analysis of the legislative and regulatory framework, with a focus on the Biomethane for Transport Incentive Decree, and analysis of the target market for the gas produced (grid or LNG)	Confidential	IT	2021		√	✓
Technical buyer due diligence and analysis of the legislative and regulatory framework, with a focus on the Biomethane for Transport Incentive Decree, and analysis of the target market for the gas produced (grid or LNG)	Confidential	IT	2021	√		✓
Redesign of decarbonisation strategy of a TSO to achieve zero emissions by 2050, with focus on biomethane and hydrogen	GSI (gas TSO)	IT	2021		\checkmark	
Technical, Market, Regulatory and ESG DD for a project finance of biomethane plants portfolio including production, liquefaction, and distribution assets	Major lending bank	IT	2021	✓	√	✓
Technical buyer DD on 1 biomethane plant (transaction) including environmental analysis, and the review of the business plan and EPC, O&M and insurance contracts	Equity investor	IT	2021	✓	√	
Market & Tech. DD on 2 biometh. plants with focus on transport sector incentives	Developer	IT	2021	✓	\checkmark	
Market due diligence for the procurement strategy of crops for energy production and agricultural residues	Mossi&Ghisolfi	ΙΤ	2021		√	
Technical and market advisory on numerous development projects, as part of initiatives in the CNG and LNG sector in Italy	Confidential	IT	2021	✓		



ANNEX - PROJECT REFERENCES - BIOMETHANE

AFRY has recently conducted several Due Diligences and market analysis on biogas and biomethane assets, with a focus on Italy (5/5)

					Area	
Project summary	Client	Country	Year	Tech.	Comm./ Market	Reg.
Market DD on a biomethane plant including analysis of the market for the delivery of organic fraction of municipal waste	Developer	IT	2020		\checkmark	
Market & Tech. DD on 6 biomethane plants	Developer	IT	2020	✓	✓	√
Power plant's concept design, pre-feasibility study, business planning and identification of suitable sites. Rated thermal input 76–121MW. Fuel: RFD.	BGrimm	IT	2020	✓	√	√



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