

Wednesday 1 July, 14:45 – 17:00 **Stakeholder seminar for carbon-intensive regions**

Welcome to the carbon-intensive regions 14:45 – 14:50 Carbon-intensive regions in the Just Transition

Mathieu Fichter, DG REGIO, European Commission



14:50 – 16:05

Roundtable

Planning the just transition in carbon-intensive regions: common challenges and solutions

- Professor Cristiano Galbiati, Princeton University and Gran Sasso Science Institute: The case of the areas of Taranto and Sulcis in Italy
- Alexandre Varela, Technical Director of the Energy Agency of Porto, Portugal: *The case of the region of Porto in Portugal*
- Liana Gouta, Group Director, Energy Policy and International Affairs, HELLENIC PETROLEUM SA: *A perspective from the Refineries and Fuels sector*

- Radosław Żydok, Director of the Department of Regulatory and Strategic Analysis, KGHM: Insights from the Polish Copper and Silver industry
- Anders Wijkman, Honorary President of the Club of Rome, Chairman of the Swedish Association of Recycling Industries and Chairman of the Governing Board of EIT Climate-KIC: The role of circular economy and low-carbon innovations in the just transition
- Judith Kirton-Darling, Deputy General Secretary of industriAll Europe: A just transition for workers in carbon-intensive sectors

European

Commission

Professor Cristiano Galbiati, Princeton University and Gran Sasso Science Institute

The case of the areas of Taranto and Sulcis in Italy



The case of the areas of Taranto and Sulcis in Italy

Seminar: Launch of the Just Transition Platform - Coal Regions in Transition Virtual Week and Carbon Intensive Regions Session: Carbon-intensive regions in the Just Transition Wednesday, July 1, 2020

Cristiano Galbiati Princeton University and Gran Sasso Science Institute

Outline

- Broader Context
- The Just Transition in Taranto: the hotbed for the European radical transformation of the steel making process
 - Switch to decarbonization and green steel production
- The Just Transition in Sulcis-Iglesiente: from active coal mine to center of excellence in advanced medical technologies
 - Production of isotopes for advanced medical diagnostics, proteomics, and fundamental research in astroparticle physics
- Le Fil Rouge: advances in technical gases and a prominent link to COVID-19 mitigation
- Conclusions

Broader Context

- *"Country Report Italy 2020"* released on February 26, 2020
 - Accompanying the document "2020 European Semester: Assessment of progress on structural reforms, prevention and correction of macroeconomic imbalances, and results of in-depth reviews under Regulation (EU) No 1176/2011"
- Annex D: Investment Guidance on Just Transition Fund 2021-2027 for Italy
 - "Italy is the EU's fourth largest producer of greenhouse gas (GHG) emissions, and its energy sector is the largest contributor to the total GHG emissions with a share of 56% in 2017. Italy's main sources of GHG emissions are coal power plants and iron/steel production (109). Two areas deserve specific attention, Taranto and Sulcis Iglesiente (Carbonia-Iglesias, in the South-West of Sardinia)."

Just Transition: Taranto

- First and foremost: definition of role of ArcelorMittal
- The cornerstone of the Italian plan: Environment-friendly "green" steel production, fully compatible with public health and ecology. A four-step process for a radical elimination of coal from the steel cycle:
 - Direct Reduced Iron (DRI) with Natural Gas ready now
 - 2nd step: Natural Gas-Powered Smelting (NGPS) ~2-3 yrs R&D
 - 3rd step: CO₂ recovery, from waste to product ~5 yrs R&D
 - 4th step: turning to hydrogen for DRI production (Hydrofurnance, HF) ~7 yrs R&D

CO₂ Recovery Plan

- A fundamental tool to complete the green transition. The breadth of the Just Transition Mechanisms allows to consider a number of advanced technical solutions
- The territorial plan for Taranto could focus on a three-step strategy for advanced CO₂ recovery:
 - Production of carbon for fertilizers
 - Recovery of low-temperature heat
 - Direct recovery and liquefaction of CO₂, shipping to offshore wells





Just Transition: Sulcis-Iglesiente

- Path for transformation of the Sulcis-Iglesiente coal basin established in 2015. Guiding principle:
 - After 3,000 years of continuous minerary activity on site, abandon mining but continue active exploitation of historic site with an ambitious transition to a production facility of stable isotopes for advanced medical diagnostics and proteomics, as well as fundamental research in physics
 - The Aria Project: Carbosulcis mine in Sulcis-Iglesiente to become international hub for production of stable isotopes
 - First phase focuses on fundamental research for dark matter, led by Istituto Nazionale di Fisica Nucleare (INFN) and Carbosulcis
 - Transition plan complemented by use of Carbosulcis areas for green energy production (photovoltaic farm), CO₂ capture by growth of blue algae, and transformation of coal residues in fertilizers

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Diagnostics:
• Positron
Emission
Tomograp



Conclusion

- Radical plan for elimination coal mining and simultaneous revitalization of coal mines towards new, green economic cycle for advanced medical diagnostics, and;
- Radical plan for elimination of coal from steel making process and introduction of cycle for complete recovery of CO2;
- Justify the use of public funds for completing the research-driven transformation and eliminate at the root any conflict between industrial activity, public health, and environment

Transition of Energy Production to Natural Gas

- TAP and associated infrastructures ready to provide in 1-2 years abundant LNG supply to Taranto area
- Two generations of coal-powered energy plants in Sulcis-Iglesiente responsible for production of 560 MW, accounting of 20% of total energy consumption in Sardinia
 - Energy-intensive production of aluminum from bauxite in Sulcis-Iglesiente dependent upon local energy production
- Transition of production to natural gas and associated recovery of CO₂ a cornerstone of the Italian Just Transition Plan, and may require extension to other areas

Le Fil Rouge

- All transformation processes guided by fundamental research in particle physics and astroparticle physics. Initiatives in Italy led by INFN and associated Universities
 - Aria project initiated because of need of ultra-pure argon for discovery of dark matter research (DarkSide project)
 - Steel transformation project initiated because of need of capturing xenon for discovery of neutrinoless double beta decay (Satyria project)
 - Strong investment in basic research, directed in areas strongly affected by Just Transition transformation, provides viable and visible alternatives to workforce temporarily displaced and represents the best practice for virtuous mitigation of social costs

The End

Alexandre Varela, Technical Director of the Energy Agency of Porto

The case of the region of Porto in Portugal



PLANNING THE JUST TRANSITION IN CARBON-INTENSIVE REGIONS: COMMON CHALLENGES AND SOLUTIONS

The case of the region of Porto in Portugal

01 July 2020

#CoalRegionsEU #JustTransitionPlatform



AdEPorto

AdEPorto - Agência de Energia do Porto, a nonprofit organization, was founded by the Municipality of Porto in 2007. Presently AdEPorto aggregates 10 municipalities of the Porto Metropolitan Area – North of Douro River (AMP-ND).

The **Associate Entities** are the 10 AMP-ND Municipalities and 21 other associate member institutions, both private and public, ranging from different activities: energy, water, R&D, professional associations, and academia.

AMP-ND is the Northern part of a NUT3 region, accounting for over 60% of the population in less than 50% of the area and around 70% of Gross Added Value (GAV).



Population > 1,1 milhão | Area > 990 km²



Associate Entities

MUNICIPALITIES











Territory "fly-by" (2018)



Territory "fly-by" (2018)



100% Services 90% 80% 70% 60% Industry **50%** 40% 30% 20% Agriculture 10% 0% Natosithos Mais Gondomat Conde Trota Valoneo Paredes Partin Paredes Varitin Paredes Paretes Partin Paredes Partin Paredes Partin Porto

(FBI)(9)100 O seal of the local division of the

GAV shares







Supply and Demand (CO₂ Emission, 2018)



CO2 emissions shares











Local Authority Examples: Porto Solar

Porto Municipality – Buildings Bundle – 1 MWp – Phase 1

Buildings	29
(Schools)	25
PV Power [kWp]	962
Annual Generation [kWh/year]	1.403.508
Grid Electricity Reduction [kWh/year]	869.306
Avoided CO2/year [ton]	505
Investment Cost	945.000 €
Annual Income	149.003 €
Payback [years]	6,3







Local Authority Examples: Sample EPC in Public Lighting

Contract Parameters

- > **18 972** Lighting fixtures
- ➢ 66% Total Savings
- > 25% Total Municipality Savings
- 12 years Contract duration
- 4 months Implementation time

Contract finantial results

- ▶ 1 649 749 € Total anual energy cost (prior)
- ▶ 1 378 238 € Total anual cost during contract (Energy + Rent)
- > 271 511 € Anual Municipal benefit (during contract)
- ▶ 1085 611 € Anual Municipal benefit (after contract)





Energy Transitioning: Local Authority and the Territory





Challenges and Solutions

• Matosinhos has a refinery working from 1969 (around 500 direct

jobs)

- Other affected sectors:
 - Fuel logistics
 - Gas stations
 - Auto repair shops
 - -...

- ...

- Emerging **opportunities**:
 - The need for energy efficiency in buildings and industry
 - Locally sourced renewable energy projects
 - Grid technologies and storage systems
 - Renewable Energy Communities (also in industrial parks)
- "Energy efficiency first" needs financing and will leverage the local just transition
- Sustainable Energy and Climate Action Plans (SECAP) as essential strategic territorial tools for an holistic approach
- The need of policies and actions for swift and effective stakeholder engagement







PLANNING THE JUST TRANSITION IN CARBON-INTENSIVE REGIONS: COMMON CHALLENGES AND SOLUTIONS

The case of the region of Porto in Portugal

THANK YOU!

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Liana Gouta, Group Director, Energy Policy and International Affairs, HELLENIC PETROLEUM SA

A perspective from the Refineries and Fuels sector



The Role of the Refining Sector in the Energy Transition of

Greece

EC Carbon Intensive Regions Seminar, July 1 2020

Liana Gouta Director on Energy Policy & International Affairs



TK-50010

- **1. Overview of HELPE**
- 2. Greek Energy sector
- 3. The COVID exit: recovery in the EU Green Deal
- 4. An EU industrial strategy supporting the EU Refining Energy Intensive Industry (HLG EIIs Masterplan)
- 5. Clean Fuels For All


1.

Overview of HELPE



HELPE: The Group at a glance





Value Creation for the Greek economy and society



Strong support of the economic development and strong relations with the local communities through the decades...



The Thessaloniki example / Northern Greece: Economic Development & Critical Infrastructure of the region connected to the refinery

- ✓ electricity grid
- ✓ water supply system
- ✓ the port
- ✓ the railway and the transport
- ✓ the banking system
- \checkmark the technical companies
- \checkmark the university of the city







HELPE's Vision

Business size

Facilitate the energy transition by maximizing returns in our core business & developing a diversified energy portfolio

Improve Core business

Operational excellence, digital transformation and energy efficiency

Grow Core business

Selected investments in upgrades, development of trading capabilities

Develop New Businesses

Grow in Renewables, expand Power & Gas Our 2030 Goal: 50% CO₂ emissions' reduction

204 MW

2019

2000

2023

Long term

Energy transition

Acquisition of P/V project in Kozani area The largest Renewables project in Greece & among the 5 biggest in Europe

Health, Safety & Environment

Lies at the foundation of our strategy



Our 2025 RES Goal: **600 MW**



Greek Energy Sector



Greek Energy Sector overview

- Power generation heavily dependent on Greek local lignite
- Western Macedonia (Kozani) providing around 50% of the total electric power in the country
- A competitive, export-driven refining sector
- Renewables (wind, solar) growing
- Older vehicle fleet, very few EVs
- Significant global shipping industry with need for fuels
- Economy heavily dependent on tourism need for aviation fuel

NECP, 2030 targets

- Coal phase out by 2028 | lignite power plants shut down
- Reduction of **GHG emissions by 42%**
- RES share in final energy consumption to reach at least 35%
- **RES** share in the **electricity production** to reach at least **60%**
- **RES** share in the **transport sector** to exceed **14%**, driven mainly by electrification and biofuel technologies
- Electrification of 30% of new vehicle registrations
- Hydrogen, a role to play for lignite regions

Liquid fuels will remain a key player in the country's energy mix in 2030, for Road transport, Aviation and Shipping

Investments by refineries in low carbon technologies will be crucial for the achievement of the national targets



The COVID exit: recovery in the EU green deal



Our response to the European Union Recovery Plan : a call for a climate-neutral, resilient and socially just economy

The unprecedented Covid-19 crisis

THE DISRUPTION

- **Product demand** down by **50-75%** but very uneven
- Worse for gasoline and catastrophic for Jet fuel
- Many companies experienced a "Double storm": worldwide high supply VS low demand
- Upstream crude prices below production costs and very low demand from refineries: companies cash positions heavily damaged
- Extremely difficult **investment capability** for the near/mid-term
- Postponement of turnaround activities in refineries
- Many SMEs in supply chain (maintenance and turnaround) and rural fuel suppliers are struggling



Our response to the European Union recovery plan : a call for a climate-neutral, resilient and socially just economy

The unprecedented Covid-19 crisis

OUR RESILIENCE

Refineries kept working, adapting to new supply needs, ensuring:

- **Reliable transport** (critical personnel transport and essential goods delivery without disruptions)
- Supply to the EU **industrial value chain** (petrochemical feedstocks)
- **Security of supply** of critical goods (strategic reserves of 90 days refinery products)

Despite the crisis and the unexpected and challenging conditions, the EU refining industry showed **FLEXIBILITY** and **ASSISTED the EU governments** to overcome the Covid-19 crisis, even whilst experiencing a very difficult financial situation.



Our response to the European Union recovery plan : a call for a climate-neutral, resilient and socially just economy

Exceptional and temporary measures are needed to keep the EU refining sector competitive and resilient

The exit strategy should give adequate consideration to the following interdependent objectives :

- 1. Facilitating the economic recovery of the EU refinery industry so that it can keep being resilient to future challenges and shocks.
- 2. Enabling its low-carbon transition in line with the EU ambition of a climate neutral economy by 2050.

In order to remain **resilient** we must be kept **competitive**



Our response to the European Union recovery plan : a call for a climate-neutral, resilient and socially just economy

Our Requests from the EU Recovery Plan:

- > Strategic sector: Recognise Refining's key role in ensuring the resilience of the EU economy
- Transition to low C: Enable the repurposing of conventional refining plants into low-carbon products ena energy hubs, in line with the EU's 2050 climate-neutrality ambition
- > Employees support: Encourage Member States to make support programs available for employees displaced
- > Create the markets for low carbon fuels, i.e. by promoting them through public procurement
- Competitiveness: Ensure protection from carbon leakage risk and unfair competition from outside of the EU until consistency on carbon pricing and ambition is achieved.
- Competitiveness: Mitigate the risk of future under-allocation in the second sub-trading period of ETS phase 4 by taking into account that 2020 is not a representative year to establish the reference historical activity level.



An EU industrial strategy that supports the industry throughout the transition to climate neutrality (HLG EIIs master plan)





Green Deal & EU Industrial Strategy



An EU industrial strategy underpinning the EU Green Deal

Policy recommendations from the HLG EIIs Industrial Transformation Master Plan (Nov.2019):

- Regulatory Support: Adopt holistic regulatory measures for the uptake of low-carbon fuels that are instrumental to the climate neutrality.
- Investor security: Secure investors' access to economic stimulus and policy incentives for transformative projects in refining assets and distribution systems to create a stable, predictable market for refinery products with progressively lower carbon footprint. We have to place it in EU not outside.
- Access to funds: Ensure that sustainable finance policies recognise the role of technologies that are instrumental to the energy transition (including CCS, CCU, hydrogen and others) and grant access to the funds dedicated to climate-related investments.
- Access to raw materials: Ensure refineries' access to affordable and sustainable energy and feedstocks.

We support the Green Deal's ambition for climate neutrality by 2050 and recommend to seize the opportunities to transform the EU refining industry **to achieve both climate neutrality and its resilience**

An EU industrial strategy underpinning the EU Green Deal

As pointed out in the EU Industrial Strategy (March 2020), the next years will be decisive to set the right enabling conditions for this transition.

WHY work with the Refining Sector to this end?

- ✓ Innovation is in our DNA
- ✓ We have the **expertise**
- ✓ We have the **high skilled personnel**
- ✓ We have the means to invest in these technologies
- ✓ We can produce these technologies in Europe, and then export them to third countries
- ✓ We create added value for other industries, the economy and the society.

WHAT do we suggest?

- Refineries should be fully recognised as part of the transition in all respects of policy and sustainable finance
- Major R&D&I programmes across all technological readiness levels, should be supported
- Collaborate with the Commission to create the markets for low carbon products and technologies.
- Keep the "Industrial Master Plan" as the key document for setting out the transition of Ells



Clean Fuels For All







Clean Fuels For All : a key contribution to the climate neutrality by 2050

On 15 June 2020, the EU refining industry set out an ambitious pathway for enabling **transport to contribute to EU's climate neutrality** ambition by 2050, based on **scale up of low-carbon-liquid fuels** supply and use, across several transport sectors:

- ✓ every drop of liquid fuel for road transport could be climate neutral by 2050
- emissions from fuels in the aviation and shipping sectors could be reduced by 50%
- ✓ an ambitious, but feasible proposal
- ✓ significant investment needs (around 450-600 billion euros by 2050)

Low-carbon liquid fuels have a strategic role to play in the transition to a climateneutral economy by 2050, in particular in sectors such as aviation, maritime and heavy-duty transport where no equivalent technological alternatives currently exist....

...but we need the **right policy framework**

53

To conclude....



- There will be no return to business as usual for the fuels industry
- **Dual challenge for the sector (cost of transition & lower demand** for our products)
- Many implications for us and for those who work around us (employees, customers, services, communities)

A socially "just transition" for the EU refining and marketing industry means

FOR US

- ✓ Keep our business growing and transforming
- ✓ Secure the high skilled and well paid jobs, direct and indirect
- Remain a major contributor for national economies and employment

FOR OTHERS

- Survival of a long chain of retail suppliers, industrial and commercial customers, as well as SMEs
- ✓ Prosperous communities and regions around our refineries
- ✓ Industrial clusters that underpin a strong and sustainable economy & society

NO ONE LEFT BEHIND



HELLENIC

Radosław Żydok, Director of the Department of Regulatory and Strategic Analysis, KGHM

Insights from the Polish Copper and Silver industry





Layers of possibilities

KGHM Polska Miedź - copper muscle of the Polish Just Transition

Brussels, July 2020



Key information about the KGHM Group

KGHM Group in brief

702.000 tonnes One of the world's largest producers of Fully integrated company with complete of copper production and 1417 tonnes of copper and silver with nearly 60 years of chain of extraction and processing of silver production in 2019 experience in mining and metallurgy valuable natural resources A stable and competitive position in a key An organization with strong values-based Member of the prestigious indices Respect sector for Index & FTSE4Good published by the WSE roots, focused on corporate social the global economy and ISF* responsibility - copper mining and processing

*In 2018 KGHM joined the **FTSE4Good** index. Being a member of the FTSE4Good index series confirms KGHM's efforts in the field of environmental protection, social responsibility and corporate governance. KGHM perceives joining the FTSE4Good index as an award for its solid performance in complying with demanding ESG standards.

LSE - London Stock Exchange; WSE - Warsaw Stock Exchange

Important player on the global copper and silver markets



Among world's biggest copper and silver producers

Energy transformation in KGHM

Energy consumer and producer

KGHM - no. 1 electricity consumer in Poland, 2,8 TWh.

20-25% comes from own sources, rest from the market

Two gas-steam CHP plants in Polkowice and Głogów, each with a capacity of **42 MWe** (electric), **40 MWt** (thermal). Built 2011-2016, cost: **EUR 170 million**

KGHM's CHP plants **operate for 11 months during the year**, reaching an **efficiency level** of **80%**

The **electricity** produced is **100% used for** KGHM's **own needs** on-site

100% of the produced **heat energy** is transferred **to the heating systems** of Polkowice, Lubin and Głogów (**165,000 inhabitants** in total)

Trail towards green copper

Ecology as one of four **strategic directions** for KGHM's development

Our objective is to ensure a supply of **green energy** for safety and climate neutrality reasons

By the end of 2030, **up to 50%** of KGHM's annual demand (1,6 TWh) will be covered by **own energy sources**

There will be a considerable share of **renewable energy** (300 MW) from **solar and wind projects**

Energetics development program

First photovoltaic projects

66

What can the money change?

The method and cost of financing will significantly affect the **economical feasibility** (NPV) of new investments

To achieve the strategic goal, **different approaches are being considered** – from increased gas usage, through gas/PV/wind mix to RES only with existing gas-steam blocks gradual withdrawal

Estimated CAPEX differs from 100 m€ (low reduction of CO2 emissions) up to 670 m€ (approx. 1 Mt CO2 annually reduction)

As the energy produced in Poland emits approx. 0,8 t CO2/MWh, the support for such investments will **firmly contribute to decarbonisation**

Why cash and not debt?

Copper price **volatility** and the constant need to **sustain production through investments** leads to a significant increase in the KGHM's debt during economic slowdown

Struggle with **increasing costs** (environmental standards & investments) and **strong competition** from outside Europe

EKP 2002

EZB EKT EKP 2002

ECB EZB EKT EKP

Credit agreements with banks set **upper debt limits** (so-called **covenants**)

In this situation **we reduce our dependence** on loans and try **not** to increase current **debt**

We would also welcome other ways of financing our investments without **burdening the balance sheet**

Polish potential for coal-to-copper mining transformation

Lower Silesia Copper Basin

- Our copper ore deposits are located in Lower Silesia, southwestern Poland
- The area is **approx. 550 km2**, situated 80 km west of Wrocław and 70 km north of Wałbrzych (one of the traditional coal centres)
- The main cities of the district are Lubin (73,000), Głogów (69,000), Polkowice (23,000) and Legnica (100,000)
- More than **34,000 people employed** in the KGHM Group, the vast majority of them (about 31 500) in Poland
- Basing on Polish deposits (one of the largest in the world), we can continue production for at least 30-40 years

Sustainable & Responsible Raw Materials - role of Polish deposits

- Climate-neutral Europe **only** possible with sufficient amount of **non-ferrous metals**
- The growing deficit of European extraction makes EU dependent on uncertain and high carbon footprint imports
- Meanwhile the current crisis presents an historic opportunity to improve Europe's strategic autonomy in raw materials
- The situation could be resolved by the resources of KGHM located in Poland

Support for KGHM will also **help the region**, which is still partly **affected by the end of coal exploration**

For several decades, coal mining has been **the most important industry** of Wałbrzych and its surroundings (**Lower Silesian Coal Basin**). Lower Silesia is close to Upper Silesia, the most coal-dependent region in Poland

This means better than in other regions **availability of qualified personnel** who could now take up employment in **copper mining**

It's much easier to train coal miner to work in copper mine than in other sectors. Such employment would be **the best fulfillment of the Just Transition idea**



Regulatory support: all **EU policies** affecting raw material companies should be **subjected to the main objective of decarbonisation** with **sustainable & responsible European raw materials**

Financial support for **creating new jobs** in the non-ferrous metals sector in Europe – **investments in mining infrastructure**, shafts and conveyor belts, underground machines

Faster and less complicated administrative proceedings:

mining license, environmental and water permits, spatial development plans









Thank you for your attention!

Radosław Żydok Director of Regulatory & Strategic Analysis Department Radoslaw.Zydok@kghm.com

Anders Wijkman, Honorary President of the Club of Rome, Chairman of the Swedish Association of Recycling Industries and Chairman of the Governing Board of EIT Climate-KIC

The role of circular economy and low-carbon innovations in the just transition



Judith Kirton-Darling, Deputy General Secretary of industriAll

A just transition for workers in carbon-intensive sectors



Planning the just transition in carbon-intensive regions: identifying the challenges and finding solutions

1 July 2020





Just Transition is an existential demand

COVID 19 Crisis (Spring 2020 economic forecast)





Note: Largest peak-to-trough GDP declines since 1921 (peacetime years only), based on annual data, 1921-51 EA12 excl. LU, 1952-84 EA19 excl. EE, LT, LV, and SK, and since 1985 EA19. Source: Maddison Project Database, 2018, www.ggdc.net/maddison

Decarbonisation challenge

Map 1: Location of 'at-risk' jobs in the EU

Share of employment in sectors expected to decline (lhs) and expected to transform (rhs)



Source: Bruegel based on EC (2018) and Eurostat SBS.

Note: As defined by the European Commission (2018), the sectors expected to decline are 1) mining of coal and lignite, 2) extraction of crude petroleum and 3) natural gas, and the sectors expected to transform are 1) the manufacture of chemicals and chemical products, 2) the manufacture of other non-metallic mineral products, 3) the manufacture of basic metals and 4) the manufacture of motor vehicles, trailers and semi-trailers.



The Just Transiton has gained momentum

- ✓ EU Green Deal EU actions and policies should pull together to help the EU achieve a successful and just transition towards a sustainable future.
- \checkmark Just Transition Mechanism and Just Transition Fund
- ✓ Industrial Strategy
- ✓ Launch of the Just Transition Platform



Just Transition – a trade union concept

- 1. Rights and participation
- 2. Sustainable industrial policies
- 3. Proactive well-funded labour market policies
- 4. Social protection



Just Transition Platform

Specific attention must be put on:

- Synergies between the EU Industrial Strategy (incl. industrial ecosystems, IPCEI) and the Platform
- Transformation of transport and the automotive sector
- Employment dimension Stronger role of DG EMPL in the Just Transition Platform
- Positive engagement of workforce is not an optional extra but will determine the success of the strategy



16:15 – 17:00 Support from Commission to the transformation of carbon intensive industries and regions

Peter Berkowitz, Head of Unit, Smart and sustainable growth, DG REGIO - Support through the Just Transition Fund and Cohesion Policy, European Commission

Roman Doubrava, Deputy Head of Unit, Land Use and Finance for Innovation, DG CLIMA, European Commission - Support from the Modernisation and Innovation Fund

Peter Handley, Head of Unit, Energy intensive industries and raw materials, DG GROW, European Commission -Strategy for Energy Intensive Industries



Peter Berkowitz, Head of Unit, Smart and sustainable growth, DG REGIO, European Commission

Support through the Just Transition Fund and Cohesion Policy





Support for Just Transition

Peter Berkowitz, Directorate General For Regional and Urban Policy EUROPEAN COMMISSION

#EUbudget, #EUSolidarity, #StrongerTogether

Just Transition Mechanism

at least EUR 160 billion investments

to support and finance regions most exposed to transition challenges in all Member States



> Adoption of a territorial just transition plan enables access to all three pillars of JTM

- Investments under pillars two and three of JTM need to benefit territories identified in the territorial just transition plans adopted by COM – without the obligation for projects to be located in these territories
- Pillars two and three of JTM have a wider thematic scope than JTF

Scope of the Just Transition Fund



Stronger focus in scope of intervention than other cohesion policy programmes

- Economic diversification and reconversion
- Re-skilling and job seeking assistance for workers
- Support to climate transition and environmental sustainability incl. circular economy

Eligibility scope - consistent with ERDF and Cohesion Fund proposal

• Production, processing, distribution, storage or combustion of fossil fuels excluded from support

Limited additional eligibility – to be justified in territorial just transition plans

- Productive investments in large enterprises: if needed to offset job losses
- Investments reducing GHG emissions from ETS activities: if needed to preserve jobs

! Each operation must contribute to the implementation of the territorial just transition plans

The Just Transition Platform







Roman Doubrava, Deputy Head of Unit, Land Use and Finance for Innovation, DG CLIMA, European Commission

Support from the Modernisation and Innovation Fund





Innovation Fund Modernisation Fund

Roman Doubrava DG CLIMA 01/07/2020

Innovation Fund Objectives



Key features

Basics

Volume of at least EUR 10 billion until 2030 (at EUR 20 carbon price)	Support of up to 60% of additional costs related to innovative technology	Renewable energy CCS and CCU Industry Storage
Financed from the revenues of the EU Emissions Trading System	Support of additional capital <u>and</u> operating costs (up to 10 years)	First call for large-scale projects (>€7.5M CAPEX) in mid-2020 with a volume of EUR 1 billion
Single applicant or consortium	Project start possible after application for first stage	Project has to be implemented in EU-27, Norway or Iceland

European Commission

Selection process





Basics

Payments upon milestones



European Commission

First-stage award criteria



Second-stage award criteria



European Commission

Synergies with other Funds





Calendar



Modernisation Fund - basics

- Support for modernisation of energy systems and just transition in 10 beneficiary Member States
- Consistent with the aims of the ETS Directive, the objectives of the Energy Union framework and of the long-term objectives in the Paris Agreement
- Size: 2% of total quantity of allowances
- Additional allowances can be transferred to the MF: Article 10c and Article 10(2)(b) of the ETS Directive.
- Auctioning of allowances on common auction platform and in equal shares for each year (2021 to 2030)



Priority investments – min 70% of the resources of the Fund





MODERNISATION FUND

How does the financing process work?

EU Member State submits the investment proposal

The European Investment Bank confirms priority status

PRIORITY INVESTMENT

NON-PRIORITY INVESTMENT

The European Investment Bank assesses proposal

The Investment Committee votes

The European Commission takes disbursement decision

The European Investment Bank disburses funds

EU Member State implements investment and reports to the European Commission

ean nission

STATE AID CLEARANCE

Next steps

June	Member States vote on the Implementing Act in the Climate Change Committee
July	Implementing Act Adopted by the Commission
Q3 2020	Establishment of the Investment Committee
Q4 2020	Investment Committee first meeting
Q1 2021	Start of operations



THANK YOU!

Check DG CLIMA Website https://ec.europa.eu/clima/polici es/innovation-fund_en

https://ec.europa.eu/clima/policies /budget/modernisation-fund_en

Peter Handley, Head of Unit, Energy intensive industries and raw materials, DG GROW, European Commission

Strategy for Energy Intensive Industries



Thank you



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