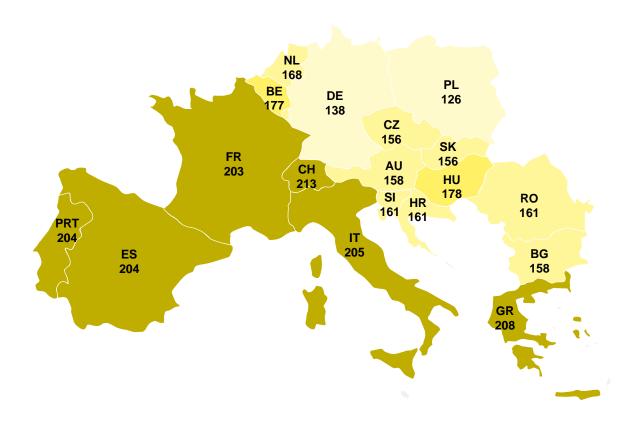


# Operations are being impacted all across Europe as a result of electricity price increase, mostly due to climate-related policies and generation capacity shortage

## Day-ahead market average prices across Europe for 8 February 2022 (EUR / MWh)



Source: European Power Market Operators, EY analysis

euro / MWh							
100	125	150	175	200+			

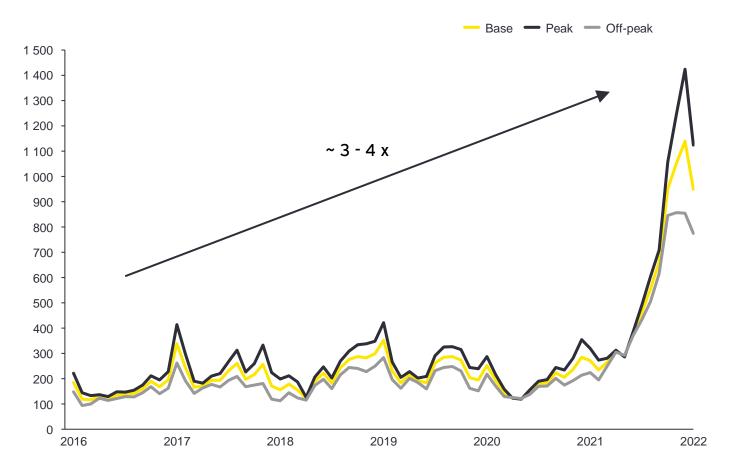
### **Comments**

- ▶ Wholesale power prices have significantly increased over last few months.
- High prices have been driven by a "perfect storm" of factors:
  - High gas prices
  - High CO2 prices
  - Low wind output
  - Plant outages and closures
- **EU emission reduction target increase**: at least 55% for 2030, up from 40% previously.
- ► CO2 price increased from approx. 5 to 96 EUR in the last 4 years and we expect the EU Green Deal commitment to continue this trend on medium-long term.



# Recent day-ahead market prices exceeded 1,000 RON / MWh, up more than 3 times compared to similar period during 2016 – 2020 timeframe

## Romania day-ahead market average prices (2016-2021, RON / MWh)



Source: OPCOM reports, EY analysis

### Comments

- Electricity price increase: on short-medium term al local level we expect higher electricity price compared to previous years average and a high price volatility due to a number of factors such as:
  - ▶ low energy system interconnectivity with other countries;
  - planned shutdown for refurbishment of one of the nuclear reactors;
  - Complexul Energetic Oltenia restructuring and decommissioning plan
- ► Electricity imports increase: Romania became a net electricity importer in 2019 and 2020 (a change from the traditional net exporter position)

Note: Recent transactions on forward market closed at approx. RON 900 for 2022, RON 850 for 2023 and 550 RON for 2024



## Industry-wide solutions are available for reducing energy costs and EY holds necessary expertise for successful implementation

**Power Purchase Agreements**(Physical or Virtual)



Electricity Generation (on-site or off-site)

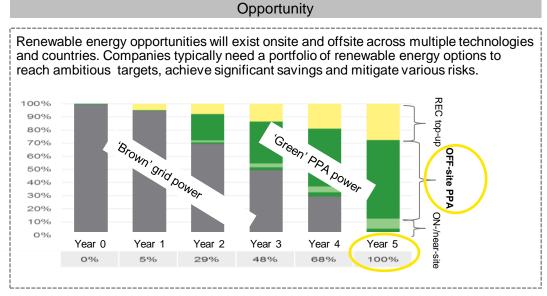


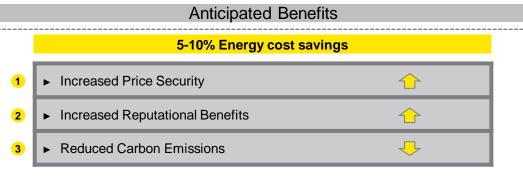


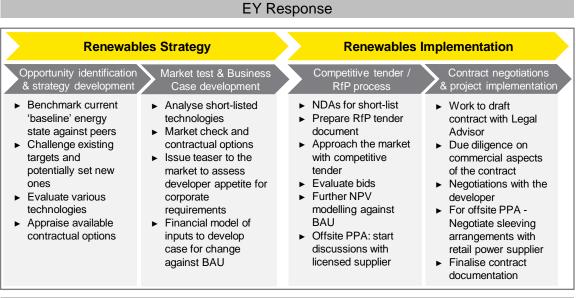
# EY can provide market-leading assistance for PPAs in order to deliver long-term cost savings at the same time as meeting ambitious renewables targets...

### Client challenge

## How do I meet renewable energy targets and still reduce energy costs?





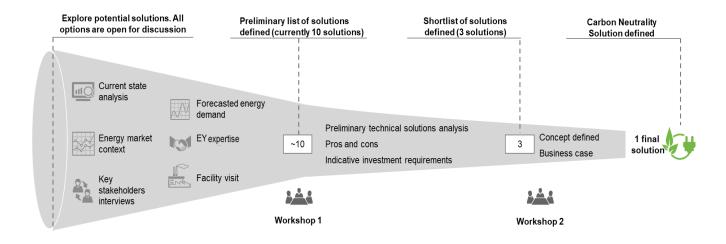






## ...and EY can assist through a process of selecting the cost effective Energy solution

## Solution selection process



### Comments

- Initial assessment will be conducted in order to:
  - analyse current state and market context;
  - confirm forecasted energy demand;
  - explore potential solutions for cost reduction and/or reaching carbon neutrality.
- ▶ A **preliminary list of solutions** will be presented and discussed during the first workshop.
- ► The second stage of the project will include the **preliminary technical analysis** of the solutions, the associated **pros** and **cons** and the **indicative investment requirements**.
- ► A second workshop will be organized in order to present and discuss the **shortlist of solutions**.
- ► The **carbon neutrality solution** will be reached based on the shortlist's concept and business case definition.



## Different options can be explored for financing an energy project

## Main approaches

		✓ Pros	× Cons
	Own financing	High benefits	High CAPEX and effort
**** *EU* ****	Co-financed through EU Funds	Highest benefits thanks to non-reimbursable financing	Longer implementation time and higher bureaucracy
ESCO Intergy Service Company	Financed / Co-financed by an Energy Service Company (ESCO)	Low effort and risk sharing approach	Lower benefit

#### Comments

- ➤ 3 main approaches were identified for implementing a carbon neutrality solution, each with associated benefits and constraints.
- Maximum benefits can be reached by implementing the solution with own funds, yet this also implies high CAPEX and effort.
- ▶ Risk and effort can be minimized in an ESCO-type approach, although benefits will also be reduced.
- ► EU funding can prove a viable alternative in order to reach higher benefits, but longer implementation time and higher bureaucracy need to be navigated.



# EU Funds totaling over EUR 15 B will facilitate the transition to low-carbon economy by 2030 in Romania



Recovery and Resilience Facility
Status: launch planned during 2022 (energy)
Value: EUR 1.6 B energy component



Sustainable Development Operational Programme Value: EUR 0.6 B energy component covering energy efficiency, GHG reduction and other



Modernisation Fund
Status: launch planned during 2022
Value: EUR 14 B (dependent on CO2 price)



Innovation Fund
Status: recurrent annual calls
Value: EUR 10 B (estimated)

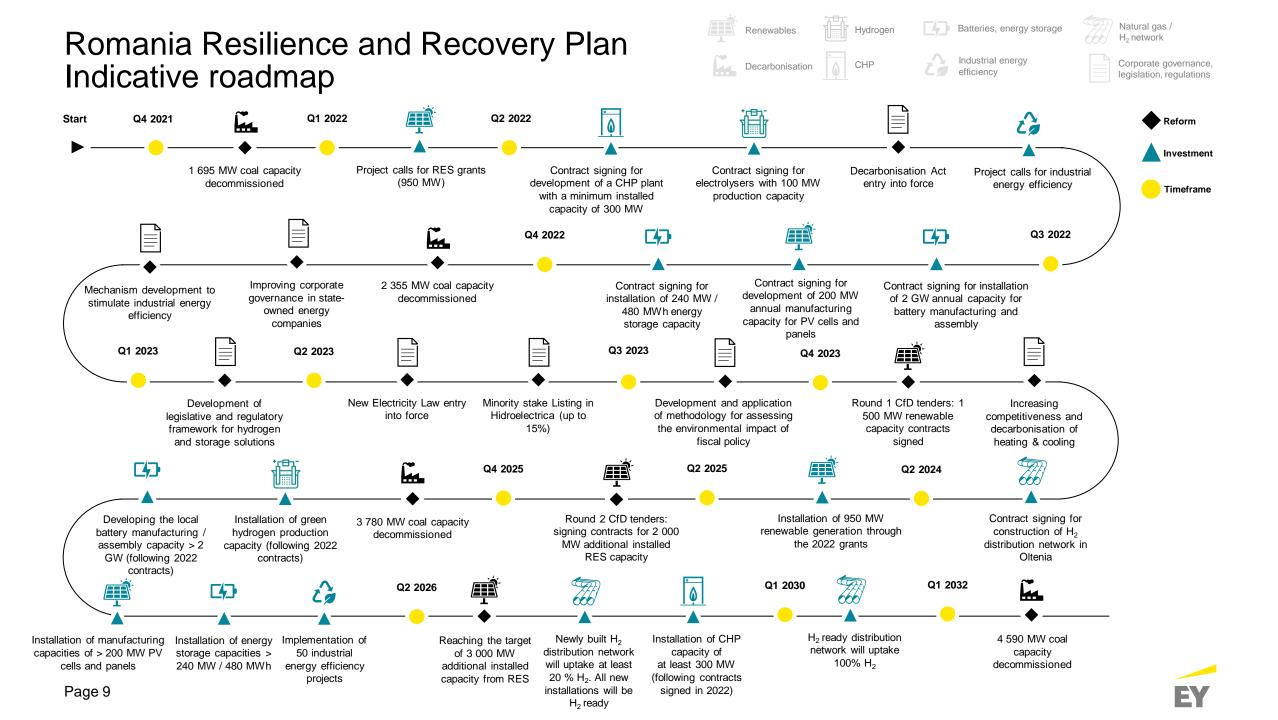


Just Transition Operational Programme
Status: launch planned during 2022
Value: EUR 1.95 B



Status: launched Value: EUR 5.8 B (energy component)





# We are providing our clients with end-to-end services for preparing, funding and implementing energy projects

## **Identify**

## **Concept & Feasibility**

## **Grant Application**

## **Implementation**

## **Call for proposals**

- Monitor relevant policies and governance of EU Funding Programmes
- Assistance in communication and strategic alignment between clients and key stakeholders
- 3 Identify EU funding opportunities for the client's investment priorities

- Preliminary analysis of eligibility & other funding conditions
- Define project concept / adapt it to the funding conditions
- Prepare supporting documentation e.g.:
  - Feasibility studies
  - Cost-benefit analyses
  - Environmental studies
  - Other supporting documentation

- Prepare and submit the funding application
  - Funding application
  - Project budget, financial and operational capacity
  - Administrative forms
  - Complete / revise supporting documentation to ensure alignment with guidelines
  - Other activities as per call guidelines (e.g. state aid)
- Assistance during the project evaluation period
  - Administrative and technicaleconomic evaluation
  - Support in grant agreement negotiations and sign-off

- Support in implementation
  - Prepare detailed project plan
  - Procurement and contract management
  - Assistance in project execution
  - Project Financial Management
  - Elaborate and submit the reimbursement requests
  - Support in communication with Managing Authorities



### Save time...

... by addressing all needs and challenges related to an EU-funded project with EY as single point of contact



### Save effort...

... by having EY to contract and coordinate the work of all the necessary contractors, in all phases



