

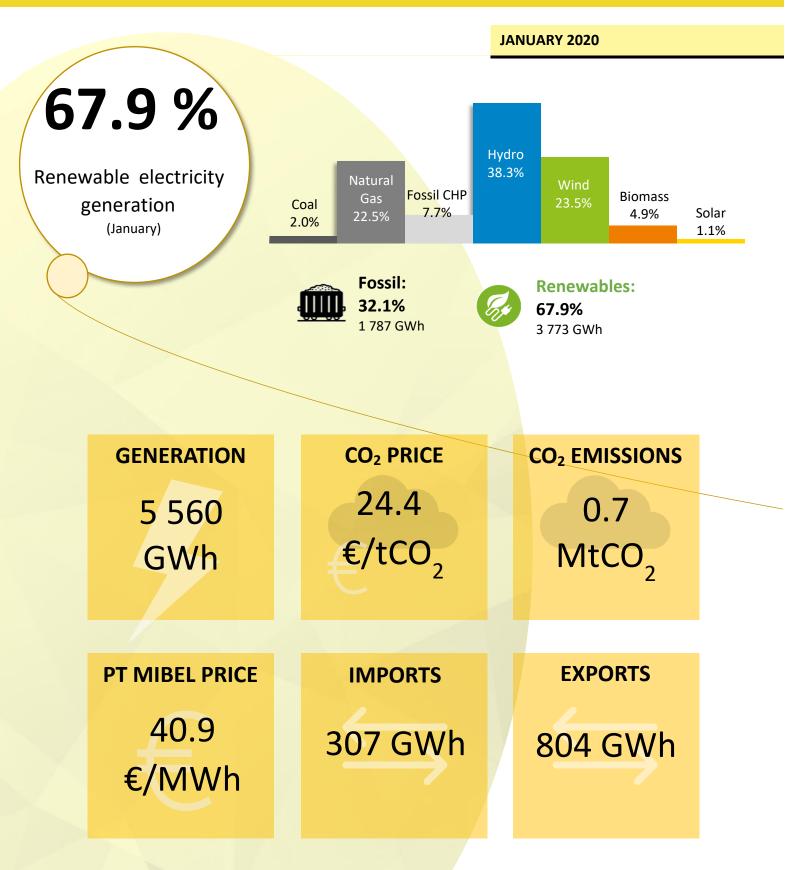
# PORTUGUESE RENEWABLE ELECTRICITY REPORT

**JANUARY 2020** 





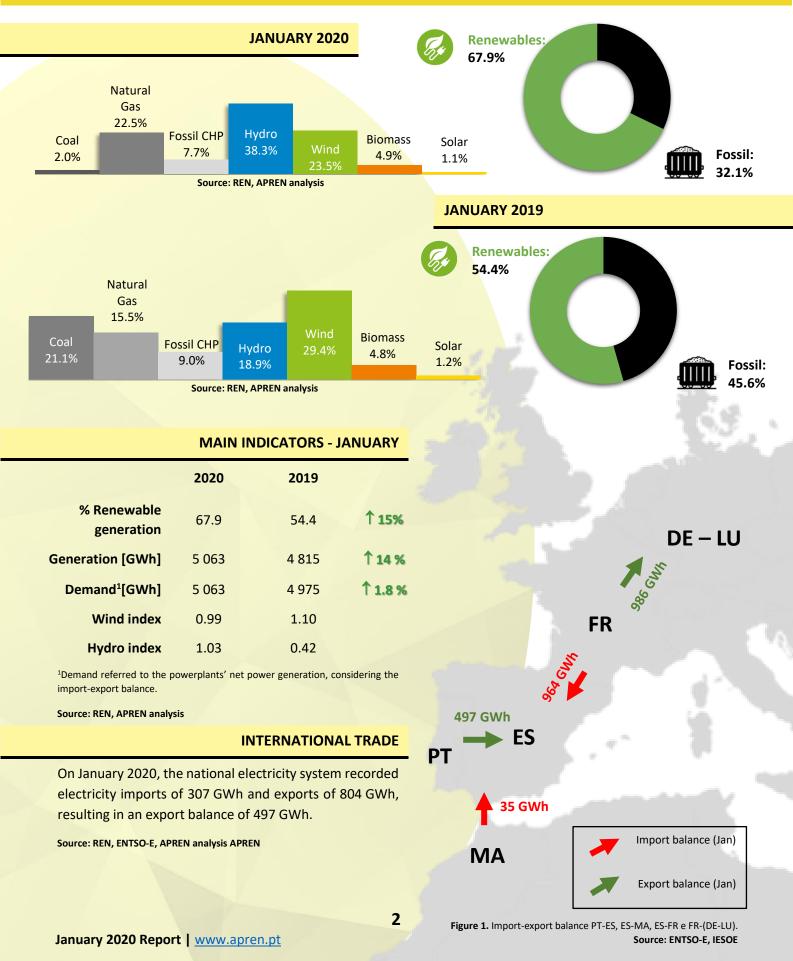
### **EXECUTIVE SUMMARY**



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## **ELECTRICITY GENERATION: MAINLAND PORTUGAL**





#### **ELECTRICITY MARKET**

On January 2020 there was an average electricity market price within the Iberian Electricity Market (MIBEL) in Portugal of 40,9 €/MWh<sup>2</sup>, a significative reduction of 35 % in comparison to the same period of 2019.

There were registered 91 non-consecutive hours where renewable electricity generation was enough to meet the demand in Mainland Portugal, which were characterized by an average MIBEL price of 35.9 €/MWh.

<sup>2</sup>Arithmetic average of the hourly prices

Source: OMIE, APREN analysis

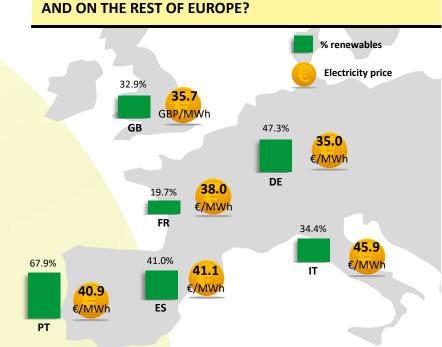
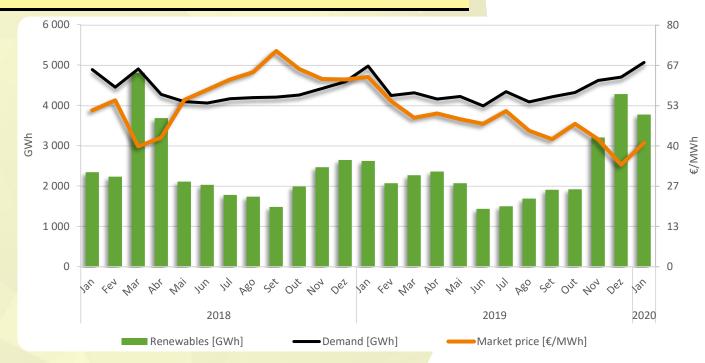


Figure 2. Renewable electricity generation share and average hourly electricity market price, in January 2020. Source: REN, Fraunhofer, REE, Terna, National Grid, ENTSO-E, APREN analysis



#### **RENEWABLE GENERATION, DEMAND AND MIBEL PRICE**

Figure 3. Market price, electricity demand and renewable electricity generation (Jan-2018 to Jan-2020). Source: OMIE, REN, APREN analysis

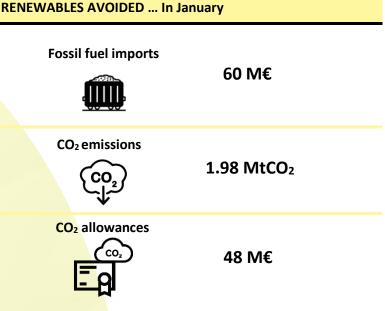


### **POWER SECTOR EMISSIONS**

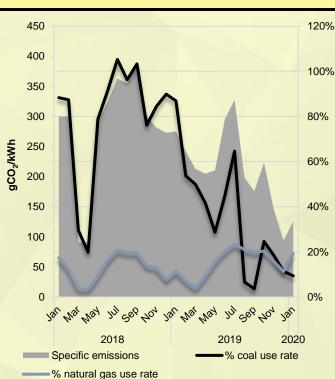
The table aside identifies the savings achieved on January 2020 on fossil fuel imports,  $CO_2$  emissions and  $CO_2$  emission allowances, as result of the renewable electricity generation.

During the first month of the year, the European market for  $CO_2$  allowances (EU-ETS) recorded an average hourly price of  $24.4 \notin/tCO_2$ , a 4.3% increase in comparison to the same period of 2019.

#### Source: SendeCO2







**SPECIFIC EMISSIONS AND CO2 ALLOWANCES PRICE** 

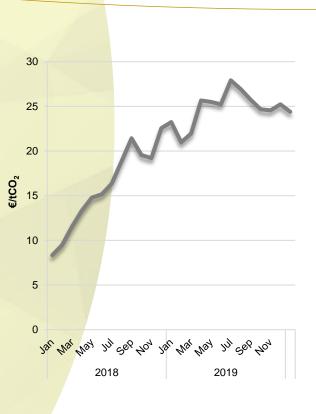


Figure 5. CO<sub>2</sub> allowances price (Jan-2018 to Jan-2020). Source: SendeCO2.

Figure 4. Specific emissions from the power sector in Mainland Portugal,

% useage rate of coal and natural gas power plants (Jan-2018 to Jan-2020).

Source: REN, DGEG, ERSE, APREN analysis.

% useage rate

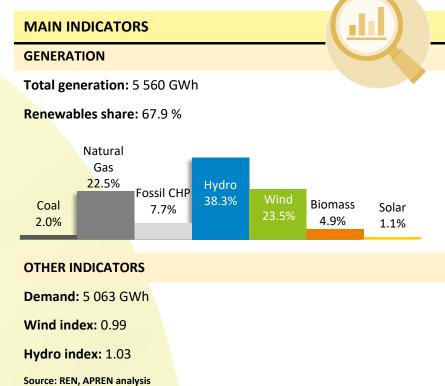


### **MONTHLY ANALYSIS: JANUARY**

From January 19<sup>th</sup> to 21<sup>st</sup>, the total renewable electricity generation was enough to supply the electricity demand in Mainland Portugal, where wind power had a greater representativity, of 58% over the demand.

The table aside shows the main productivity indicators for renewable generation in January 2020.

Source: REN, APREN analysis



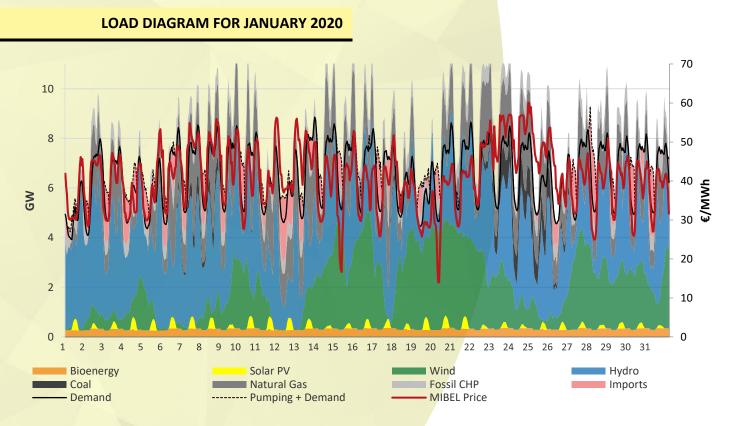


Figure 6. Load Diagram for Mainland Portugal (Jan-2020). Source: REN, APREN analysis.

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### **FINAL REMARKS**

#### **National legislation**



Within the scope of the Decree-Law No. 162/2019, which establishes the legal framework applicable to the renewable electricity generation for individual and collective self-consumption, the following were approved:

• The Inspection and Certification Regulation (ICR) and the Technical and Quality Regulation (TQR) through the Dispatch No. 4/2020 from February 3<sup>rd</sup>.

**European legislation** 



On January 15<sup>th</sup> the European Parliament (EP) agreed on the final wording of the Green Deal resolution, which advocates concrete measures to be applied by the European Commission and transposed by the Member States, which essentially follow:

- Green financing, which redirects investments towards sustainable technologies and business areas, finances long-term sustainable growth and contributes to the creation of a circular, low-carbon economy and resilient to climate change;
- A just transition mechanism to support regions and sectors that are most affected;
- Europe as a global leader.

#### **Relevant facts**

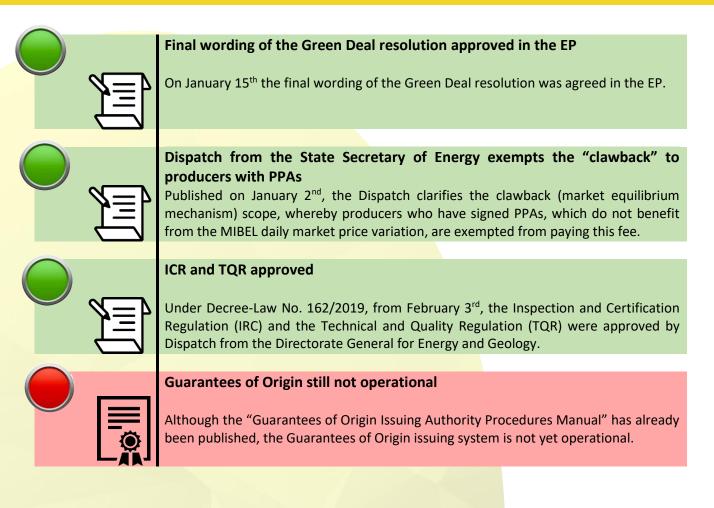


Concerning 2019 results, APREN points out that only 311 MW of renewable capacity were installed, of which 155 MW were from solar PV - 21 MW distributed and 134 MW centralized. This scenario falls short from the kick-off scenario from the National Energy and Climate Plan 2030, according to which Portugal will need around 540 MW of renewable capacity to meet the 2020 starting point.

According to DGEG, the normalized renewables share in the electricity demand for 2019 was only 52.9%, when Portugal has committed to 59.6% for 2020.



### **POLICY AND REGULATION**



#### Information available in:

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