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# PWED

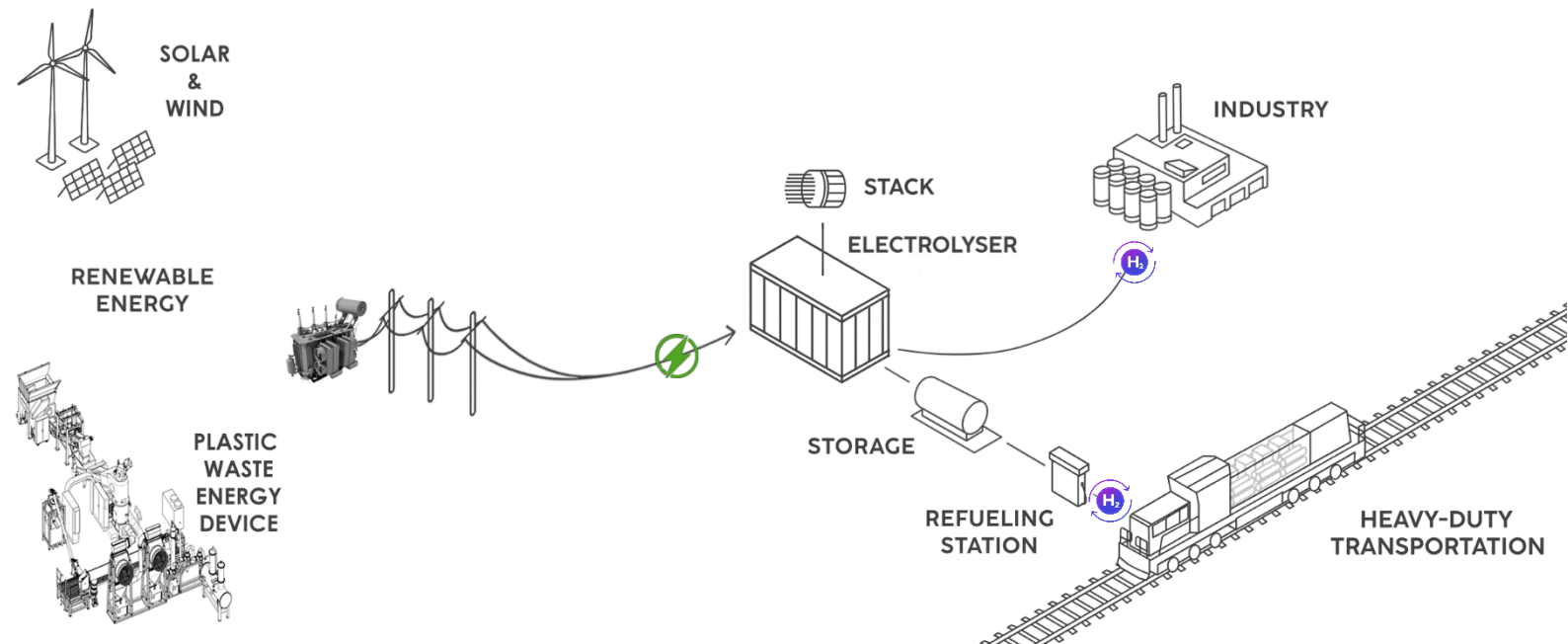
## PLASTIC WASTE ENERGY DEVICE

### CALCULATION OF DAILY EARNINGS FROM THE PWED SYSTEM

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<b>CALCULATION OF DAILY EARNINGS FROM THE PWED SYSTEM</b>			
1.	Consumption of plastic for 1 h	540	kg
2.	Consumption of plastic for 24 h	12.960	kg
3.	Electricity generation for 24 h <sup>1</sup>	42.000	kWh
4.	Production of coke granules in 24 h <sup>2</sup>	576	kg
5.	The price of a ton of coke on the EU market	375	€
6.	Daily earnings from the sale of coke	<b>216</b>	€
7.	Approximate cost <sup>3</sup> of waste plastic per 1,000 kg	100	€
8.	Approximate cost of waste plastic for 24 h	<b>1.296</b>	€
9.	Thermal <sup>4</sup> energy from PWED to 24 h	48.000	kWh
10.	Price of thermal energy per kWh (average)	0,1	€
11.	Earnings from the sale of thermal energy from PWED in 24 h	<b>4,800</b>	€
12.	Earnings from the sale of electricity to the public grid <sup>5</sup>	<b>6,300</b>	€
13.	Price of PWED system	10.500.000	€
14.	Daily cost of ownership of PWED systems <sup>6</sup> based 10 y	<b>2.919</b>	€
15.	Carbon loans from plastic processing <sup>7</sup>	26	CC/day
16.	The price of one carbon credit per day 12. 01. 2023.	93	€/CC
17.	Daily earnings from CC	<b>2.418</b>	€
18.	<b>Daily earnings from PWED (row 6 + row 11 + row 12 + row 17)</b>	<b>+ 13.734</b>	<b>€</b>
19.	<b>Total Daily Labor Cost PWED (row 8 + row 14)</b>	<b>-4.215</b>	<b>€</b>
20.	<b>Total daily income from PWED (row 18 – row 19)</b>	<b>= 9.519</b>	<b>€</b>

If electricity from PWED is used in the production of blue hydrogen the cost-effectiveness and justification of investing in the PWED system, with the only permanent solution for destroying waste plastics without creating emissions, is stringent.

When buying a larger number of PWED devices, the price is significantly more favorable and the whole calculation of economic justification is even more favorable.

<sup>1</sup> The PWED system generates 2,000 kW of electricity in one hour. Of these, 250 kWh is spent for its work (crushers, elevators, plastic melting, depolymerization, oil and gas synthesis). The net electricity it generates is 1,750 kWh. In 24 hours, PWED produces a net 42,000 kWh of energy.

<sup>2</sup> The PWED system produces 24 kg of coke granules in one hour, from impurities on waste plastic. In 24 hours, the PWED system produces 576 kg of coke granules.

<sup>3</sup> The approximate price for a tons of waste plastic on the market is €100.

<sup>4</sup> Thermal energy is calculated here at the price of use in public heats. Thermal energy can be converted into electricity with additional devices, and the output water is warm enough to heat food production systems in the aquaponic system, especially fast-growing tilapia fish that requires heat water from 25 to 27 degrees C.

<sup>5</sup> The price of MWh electricity on the stock exchange is 150 €. 42 MWh of electricity is produced per day.

<sup>6</sup> The daily cost of Ownership of PWED was calculated so that the price of the PWED system is divided by 3,600 days (10 year \* 360 days).

<sup>7</sup> Under EU rules for the permanent processing of plastics, the EU approves 2 CC per ton of permanently processed plastic. Which for PWED is 25.92 CC/day.