490 kW Hydroelectric Power Plant



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490 kW Hydroelectric Power Plant

An analysis of the operational parameters and technical ledger outlines an active small-scale hydroelectric power plant located in the **Lazio Region**, characterized by long-term subsidized remuneration and an extended concession horizon.

1. Technical Profile & Concession Framework

- **Location & Administrative Region:** Lazio Region
- **Operating Status:** Active and grid-connected (attivo).
- **Plant Classification:** Hydroelectric (run-of-river).
- **Capacity & Hydraulic Parameters:**
  - **Maximum Electrical Capacity:0.49 MW (490 kW)**.
  - **Hydraulic Head:2.20 m**.
- **Regulatory Framework & Timeline:**
  - **Incentive Feed-in Tariff:** Fixed subsidized tariff of **€205.86 / MWh** (equivalent to **€0.20586 / kWh**).
  - **Tariff Expiration Date:December 26, 2038** (over 12 years of guaranteed feed-in revenue remaining).
  - **Water Derivation Concession Expiration:January 31, 2048** (over 21 years of remaining concession validity).

2. Key Operational & Financial Metrics

Parameter	Value	Description / Derivation
Installed / Maximum Capacity	**490 kW (0.49 MW)**	Peak nominal power output
Gross Hydraulic Head	**2.20 m**	Low-head run-of-river configuration
Average Annual Output	**2,000,000 kWh/year (2.00 GWh)**	Normalized baseline production
Equivalent Full-Load Hours	**4,082 hours/year**	Calculated on 490 kW maximum capacity
Feed-in Tariff (GSE)	**€205.86 / MWh (€0.20586 / kWh)**	Guaranteed feed-in tariff
Annual Electricity Turnover	**ca. €400,000 / year**	Reported annual revenue (~€411,720 at full tariff)
Guaranteed Tariff Horizon	**Through Dec 26, 2038**	~12 years of protected pricing
Concession Expiration	**Through Jan 31, 2048**	~21+ years of residual concession lifespan

3. Investment & Commercial Highlights

1. **Guaranteed Revenue Stream (2026–2038):**
   - The asset operates under a fixed feed-in tariff of **€205.86 / MWh** through **December 2038**, sheltering cash flows from power market volatility for more than a decade.
   - With an average volume of 2.00 GWh/year, the facility generates approximately **€400,000 to €412,000 in gross annual revenues**.

TARGET PRICE
EUR 4,900,000

GROSS REVENUE
EUR 450,000

EBITDA
EUR 390,000

BUSINESS TYPE
Renewable Energy - Hydropower

COUNTRY
Italy

BUSINESS ID
L#20261221

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2. **Residual Commercial Upside Post-Tariff (2039–2048):**
    - Following tariff expiry in December 2038, the plant retains **over 9 years of active concession rights** through January 2048.
    - During this secondary phase, generation can be sold into the merchant wholesale market (PUN / market parity) or contracted via corporate Power Purchase Agreements (PPAs) on a fully depreciated asset base.

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