

BUELE CAPITAL

BUSINESS & INVESTMENT S.A.S.

TIER 1

Billed Electrical Diagnostic Report

From the utility bill to a structured technical decision

EL ELÉCTRICO

Industrial Electrical Financial Risk Analysis

Public anonymized case study

Prepared for demonstration purposes

1. Executive Summary

The audited period records a total bill of **\$7,726.49**. A **\$696.66** power-factor penalty is identified, associated with a reported PF of **0.8389**, together with billable demand of **360.04 kW**. The economic magnitude and technical nature of these charges justify escalation to TIER 2 to locate internal causes and quantify a solution.

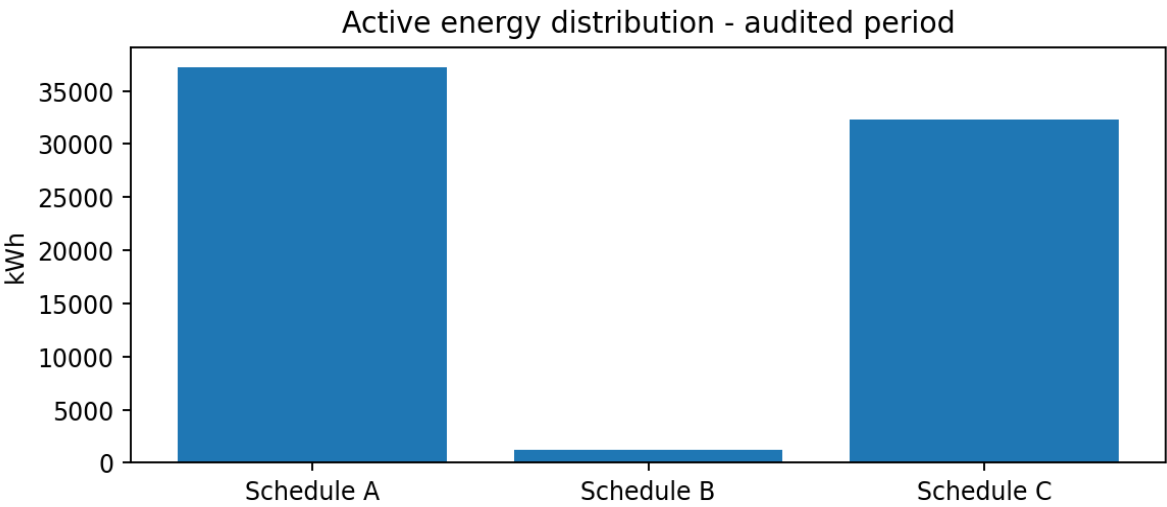
BILL	PF	PENALTY	DEMAND
\$7,726.49	0.8389	\$696.66	360.04 kW

2. Preliminary verdict

STATUS: ECONOMIC AND TECHNICAL ANOMALY DETECTED. The penalty represents approximately 9.5% of the electric-service and public-lighting value for the period. If an equivalent charge were repeated for 12 months, the simple reference impact would be approximately \$8,359.92 per year. This is a reference projection, not a confirmed historical loss.

3. Technical breakdown and consumption behavior

Parameter	Value	Unit	TIER 1 reading
Active energy	70,766	kWh	Period consumption
Reactive energy	45,615	kVARh	Relevant PF indicator
Power factor	0.8389	cos ϕ	Bill applies penalty
Billable demand	360.04	kW	Demand charge identified
Demand charge	\$988.53	USD	Significant component
PF penalty	\$696.66	USD	Critical alert
Third-party collections	\$428.40	USD	Not pure electricity use



Period reading: Schedule A 37,257 kWh | Schedule B 1,195 kWh | Schedule C 32,314 kWh. A six-month numeric history is not reconstructed because the available image only allows the current period to be read with certainty.

4. Conclusions and escalation matrix

Analyst's verdict

The bill presents a material economic signal: a \$696.66 power-factor penalty in a single period, together with billable demand of 360.04 kW. TIER 1 confirms that a cost exists that warrants technical investigation, but it does not yet attribute the cause to motors, transformers, operating schedules or lack of reactive compensation without field measurements.

Finding	Evidence	Decision	Next action
PF penalty	\$696.66 / PF 0.8389	ESCALATE	Measure PF/reactive power by load/sector
Demand	360.04 kW / \$988.53	ESCALATE	Record peaks, simultaneity and schedules
Third parties	\$428.40	ADMINISTRATIVE	Separate from pure electricity cost
Tariff / voltage	Validation pending	VERIFY	Confirm category and voltage

ANOMALY DETECTED - ESCALATION RECOMMENDED

Recommended next step: TIER 2 - Business Energy Optimization. TIER 1 is a documentary billing diagnosis and does not replace field measurements.