CASE STUDY

apollo + MLPCARE MEDICALPARK liv HOSPITAL

How Did MLP Care Make the Energy of Its 38 Hospitals Measurable?



apollo + MLPCARE

In the work led by the MLP Care energy team:

Verified facility-level gains from on-site generation, tariff optimization and IoT sub-metering



Modules used:

finwise optiwise

About MLP Care

MLP Care operates a hospital network across Türkiye under the **Medical Park, Liv Hospital, VM Medical Park and İstinye University Faculty of Medicine** brands. Energy needs in healthcare differ from other sectors. Hospitals run at the same intensity day and night, and critical units such as intensive care cannot tolerate any interruption.

This creates two problems. The first is **not seeing where consumption occurs**. The bill arrives as a single line, while decisions need to be made inside the facility. The second is cost leaking through **independent items** such as tariff, contract power and reactive penalties.

The MLP Care energy team runs this work with Apollo to monitor 38 facilities on a single platform, allocate bills through IoT sub-metering on critical loads, restructure supply and tariff terms, and reflect self-generation across the portfolio. **All results below are the outcome of decisions owned by the team.** The report covers **October 2025 – September 2026**.

~$3.45 Million

VERIFIED TOTAL FINANCIAL BENEFIT (₺171.46M)

38 Facilities

FACILITIES MONITORED ON A SINGLE PLATFORM

ⓘ Statistically meaningful efficiency measurement is possible at 28 facilities

Sector and operating model

Healthcare / Hospital Network

Nationwide monitoring scope

38 active facilities

Reporting period

Oct 2025 – Sep 2026

Collaboration status

Ongoing

Challenges & Solutions

01 Not Knowing Where Consumption Occurs Inside the Facility

A hospital bill arrives as a single item for the entire facility. Data center, climate control, imaging and common area consumption all disappear into the same figure. Without knowing what each load consumes, costs cannot be assigned to a unit and improvements cannot be prioritized.

IoT Sub-Metering and Bill Allocation in the Data Center

The MLP Care technical team installed IoT meters on critical loads. The single-line bill can now be allocated by load based on actual consumption share. Cost is no longer assigned to the facility, but to the source inside it.

02 Cost Leakage in Supply and Tariff Terms

Supply price, tariff class and terms indexed to the market clearing price (PTF) were separate items. Each quietly affected the bill, yet none appeared side by side in a single report.

PTF and Tariff Optimization

The team's management of the market clearing price (PTF) delivered **$240,383 (₺11.94M)** over the period, and tariff optimization delivered **$202,375 (₺10.05M)** in gains. Both were achieved without reducing consumption, purely by restructuring purchasing terms.

03 Hidden Losses in Contract Power and Reactive Penalties

Contract power (term) settings had not been reviewed facility by facility for years. Reactive power penalties were only noticed when the bill arrived. Unless tracked at facility level, both stayed invisible across the portfolio.

Facility-Level Term Adjustment and Penalty Prevention

With active compensation tracking by field teams, **$54,129 (₺2.69M) in reactive penalties was avoided.** Contract power optimization, run facility by facility, delivered **$150,767 (₺7.49M) across the 13 facilities where an advantage arose.** This item is not included in the total financial benefit and is reported separately.

04 No Way to Measure Efficiency or Compare Facilities

Consumption alone does not mean efficiency. Unless normalized for variables such as temperature, occupancy and floor area, one hospital cannot be compared with another. There was no indicator showing which facility was truly improving.

R^2-Based Benchmark and AI Recommendation Engine

Across **28 facilities** that meet the R^2 > 0.75 condition, meaning they show modelable consumption behavior, actions taken by facility teams delivered a **2.3% efficiency gain** over the period. Its financial equivalent is **$400,922 (₺19.92M)**, reported separately.

Results | Coverage and Data Quality

38 active facilities | October 2025 – September 2026
Source: Apollo portal coverage and data flow reports

38
Active facilities monitored on a single platform

28
Facilities passing the $R^2 > 0.75$ benchmark

2.3%
Efficiency gain measured over the period

IoT
Sub-metering and bill allocation in the data center

The finer the measurement, the wider the decision space.

A single-line hospital bill does not show which load consumes what. With the IoT sub-metering set up by the MLP Care team, the same bill turned into **a cost table that can be allocated by load**. An item that is not measured cannot be managed. Once it is measured, it becomes a visible part of the budget.

Sustainable Development Goals

SDG 3
Energy continuity supports uninterrupted healthcare

SDG 7
Self-generation brought a clean energy share into the portfolio

SDG 9
IoT metering and bill integration built a digital infrastructure

SDG 12
Resource use made responsible across tariff, term and reactive items



Results | Financial

October 2025 – September 2026

Source: Apollo financial analysis, tariff and bill verification reports. USD figures at the CBRT rate of 26 Oct 2026 (1 USD = ₺49.67).

The finer the measurement, the wider the decision space.

Gain items were calculated independently. Each item was derived by comparing pre- and post-optimization conditions on the same consumption profile, so there is no double counting. **The contract power (term) advantage and the financial equivalent of energy efficiency are not included in the total financial benefit and are reported separately below.**

~$3.45M
Verified total financial benefit for the period (₺171.46M)

$2.95M
Benefit from self-generation (solar PV) (₺146.78M)

$240K
Gain from PTF management (₺11.94M)

$54K
Avoided reactive power penalties (₺2.69M)

Gain item	Period	Amount ($)
Self-generation (solar PV) advantage	Oct 2025 – Sep 2026	2,954,914
PTF advantage	Oct 2025 – Sep 2026	240,383
Tariff advantage	Oct 2025 – Sep 2026	202,375
Compensation: avoided reactive penalties	Oct 2025 – Sep 2026	54,129
Total financial benefit	–	**3,451,801**

Table 1: Gain items included in the total financial benefit (converted from TRY).

$150,767
Contract power (term) advantage
13 facilities where the advantage arose (₺7.49M)
not included in the total financial benefit

$400,922
Financial equivalent of energy efficiency
28 facilities meeting $R^2 > 0.75$ (₺19.92M)
2.3% gain, not included in the total financial benefit

The source of the gain is not the market, but the structure the team built.

The entire benefit comes from items such as self-generation, purchasing terms, tariff class, reactive compensation and facility efficiency that are **under MLP Care's own control**. Each is the result of decisions the team made and followed through. That is why it holds regardless of market direction and can be repeated.

Achievements

MLP Care achieved the following corporate results through its collaboration with Apollo:

$3.45M (₺171.46M) in verified financial benefit in Oct 2025 – Sep 2026, without curbing consumption.

Benefit breakdown: self-generation 85.6%, PTF 7.0%, tariff 5.9%, avoided reactive penalties 1.6%.

Self-generation delivered **$2.95M (₺146.78M) in benefit.** Clean energy turned into a financial result.

PTF management delivered **$240K (₺11.94M)**, tariff optimization **$202K (₺10.05M)**, both **without reducing consumption.**

Compensation tracking avoided $54K (₺2.69M) in reactive penalties. Contract power added **$151K (₺7.49M) at 13 facilities.**

38 facilities on one platform. At 28 facilities meeting $R^2 > 0.75$, a **2.3% efficiency gain** worth $401K (₺19.92M) was measured.

With the measurement and analytics layer built by Apollo, the MLP Care energy team delivered $3.45M (₺171.46M) in verified benefit across 38 facilities in October 2025 – September 2026. **A measurable, auditable and repeatable structure is now in place.**

About Apollo

Apollo, the world's first and only AI-supported, cloud-based digital energy management platform that addresses energy tracking and management end-to-end, was selected as the best among 79 companies in the Energy Sector Tech Project organized by the Energy Market Regulatory Authority (EPDK) and recognized as the Best Energy Technology.

Its AI technology, the world-first energy benchmarking feature, and the services it provides without infrastructure hardware costs make Apollo a leader, addressing all types of energy consumption of businesses under three main headings: financial analysis, efficiency analysis, and environmental impact analysis.

Under the Energy Consumption Financial Analysis, Apollo answers the question "How efficiently am I using my resources?" for facilities; under the efficiency analysis, it addresses the question "How efficiently am I using my energy?"; and under the Environmental Impact Analysis, it provides answers to the question "How sustainable can I be?" through advanced data analysis, identifying areas for improvement in energy consumption and offering actionable insights through its AI recommendation engine.

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