

**BCG
CM.**

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SolidElectron[®]

The future of energy saving

www.bcgcm.com / www.solidelectron.com



INTRODUCTION

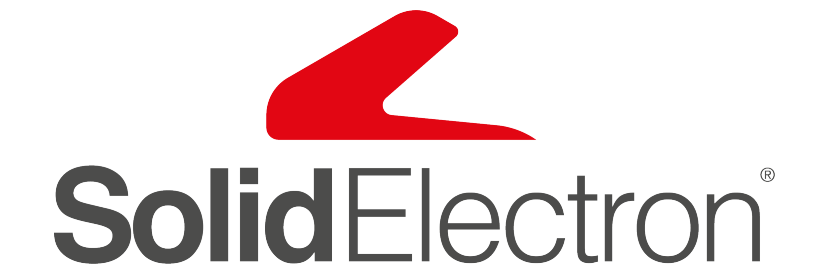
Overview

BCGCM, headquartered in the Kingdom of Bahrain, has been a trailblazer in the technology solutions sector since its inception in 2004. With a commitment to excellence, we specialize in identifying, structuring, and executing a wide array of innovative public and private market technology solutions tailored for both corporations and governments.

Core Competencies

As a dynamic technology solution provider and energy-saving consultancy firm, BCGCM excels in several key areas:

- **Quality Management:** We implement robust quality management systems that ensure our clients meet and exceed industry standards.
- **Operations Excellence:** Our expertise in streamlining operations enables organizations to enhance efficiency and maximize productivity.
- **Business Process Optimization:** We work closely with clients to refine their processes, ensuring that they are both effective and efficient.



Philosophy

At BCGCM, our unwavering philosophy is centered on empowering companies with the tools and resources necessary to unlock their full potential. We believe that with the right support, organizations can achieve sustainable growth and operational excellence.

Strategic Partnerships

In our continuous quest to provide unmatched services, BCGCM has partnered with Solid Electron, an industry leader in energy efficiency solutions. Together, we aim to deliver exclusive energy-saving services to the markets of Bahrain and Saudi Arabia. Our focus is on introducing advanced pump monitoring and energy-saving applications that promise to revolutionize energy consumption in these regions.

Our Mission

BCGCM is dedicated to fostering innovation and sustainability within the technological landscape. By leveraging our partnerships and expertise, we strive to create solutions that not only meet the immediate needs of our clients but also contribute to a more sustainable and energy-efficient future.

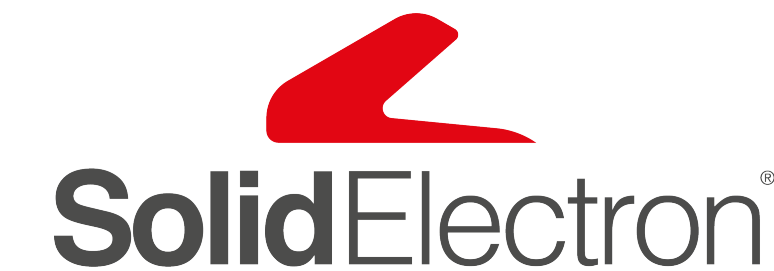
Contact Us

For more information about our services and how we can help your organization thrive, please reach out to us at info@bcgcm.com. Let us partner with you to drive innovation and efficiency in your operations.

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Reduce Your Energy Costs Without Investment

Solid Electron's Proven Pump Efficiency Solutions

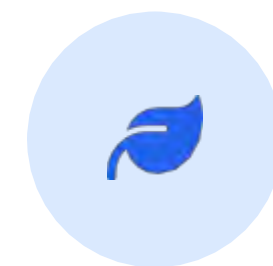
Welcome to Solid Electron. Today, we'll show you how to reduce one of your business's largest expense items—energy costs—without any upfront investment, while maximizing your operational efficiency.



Energy Efficiency



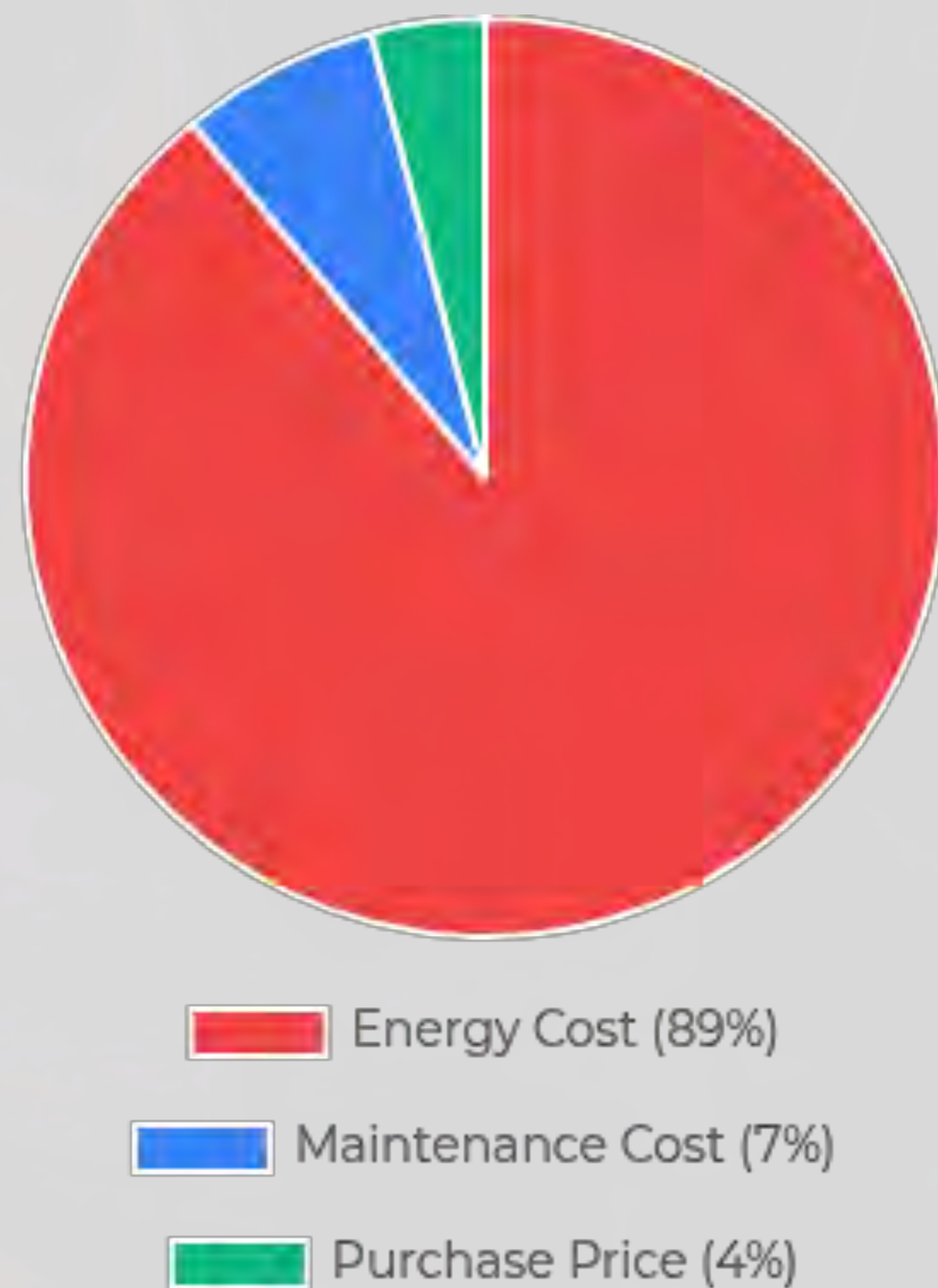
Water Conservation



Carbon Reduction

»Sustainable energy efficiency for a sustainable World«

What Your Pump Systems Really Cost



The most common mistake organizations make is choosing the cheapest pump to reduce investment costs. However:

-  **Only 4%** of a pump's lifetime cost is the purchase price
-  **7%** goes to maintenance costs
-  An overwhelming **89%** is energy cost

 Did you know?
22% of all electricity produced worldwide is consumed by pumps alone.

At Solid Electron, we target this largest cost component to deliver maximum savings.

Zero Risk, Guaranteed Savings, Shared Gains



Our Performance Partnership Model

A unique business model that eliminates risk while guaranteeing results

Performance Partnership Since 2017

How It Works:

-  **Zero Initial Investment**
All project investment costs are covered by Solid Electron. No financial burden for you.
-  **Complete Operational Support**
All operational responsibilities, maintenance, and repair costs are our responsibility.
-  **Shared Efficiency Gains**
We share the gains from electricity efficiency at pre-agreed rates. You simply gain.




METIRIUS

Autonomous Water Management Device

-  Industrial control panel for water and pumping process (Industry 4.0)
-  Optimizes water control systems based on field instrument data
-  PLC or industrial computer-based flexible control unit
-  Seamlessly integrates with all field instruments environments

 **predixi**
ADVANCED SCADA GATEWAY



Advanced SCADA Software

-  Cloud-based management of complex water transfer systems
-  Real-time communication with Metirius and field devices
-  Remote monitoring of field measurements with minimal intervention
-  Advanced analytics and reporting capabilities

Proven Success: Nigde Municipality Case Study

Turkey's First Revenue Sharing Model in Public Sector

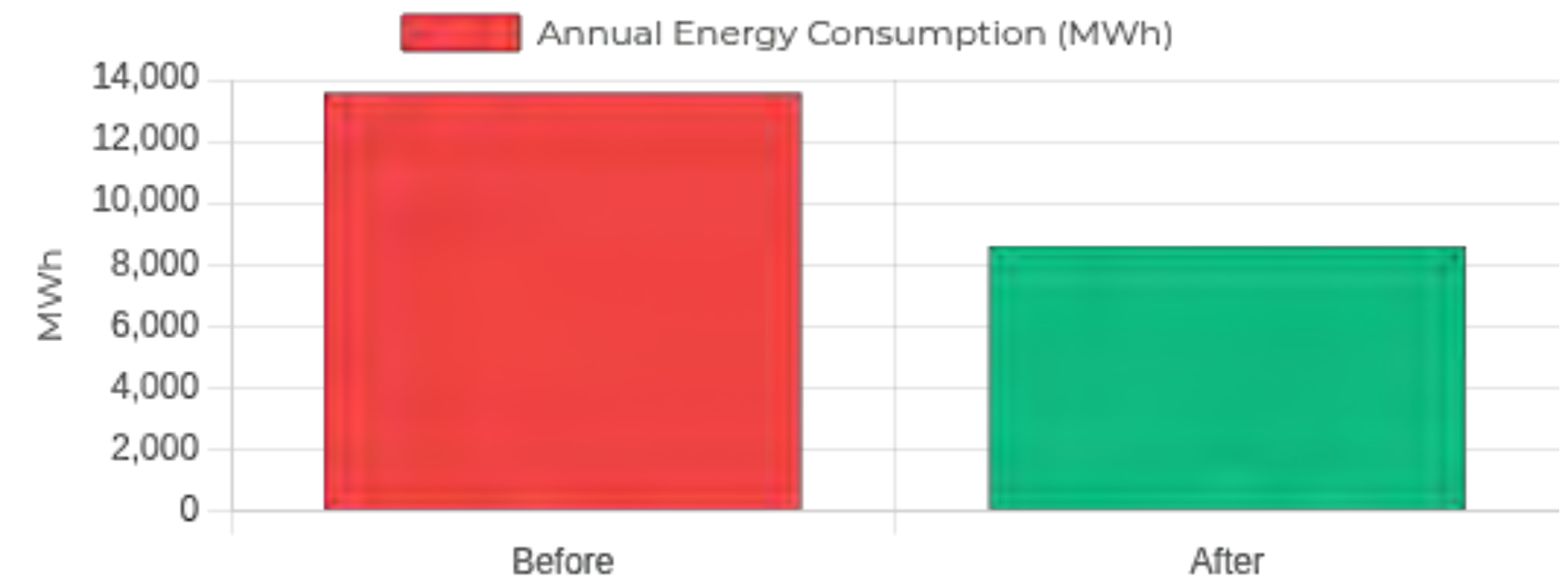


Measured Results



36.7%

Electricity Efficiency Increase



Project Scope



46
Wells



1
Pumping Station



9
Water Reservoirs



Since 2021
Operational

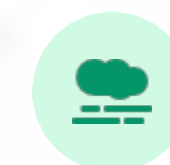
First Revenue Sharing Model in Turkish Public Sector



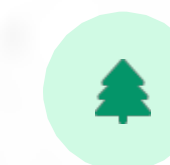
40,000 €
Monthly Savings



4,987 MWh
Annual Energy Saved



2,494 tons /annually
CO₂ Emissions Prevented



5,983 trees
Equivalent Preservation

Proven Success: Nigde Municipality Case Study

Turkey's First Revenue Sharing Model in Public Sector

BEFORE



AFTER



CONTROL ROOM



5 Steps to Efficiency

Comprehensive Approach to Water & Energy Efficiency

1



Energy Studies

Our expert teams analyze the energy consumption for each unit of water transfer in your facility.

First step: Baseline establishment

2



Mechanical Improvements

We make adjustments to all mechanical parameters that affect efficiency, such as check valves and other valves in the installation.

↑ 5-7% efficiency gain

3



Electrical Adjustments (METIRIUS)

With our Metirius panels, we ensure pumps operate at optimal efficiency. The use of frequency converters enables precise control.

↑ Additional 5-7% efficiency gain

4



Proper Motor-Pump Selection

If necessary, we incorporate the most suitable new technology motors and pumps for your facility into the system.

↑ Additional 10-30% efficiency gain



Lower Operating Expenses

Noticeable reduction in electricity bills from the very first month of implementation.



Zero Investment Risk

Access the latest technology without straining your budget or taking financial risks.



Increased Competitive Advantage

Gain market advantage by significantly reducing your production costs and resource usage.



Strong Sustainability Report

Meet environmental goals and ESG standards with measurable CO₂ reduction metrics and reporting.



Operational Excellence

Get infrastructure that is monitored, maintained, and optimized 24/7 by our expert team.



ESG Compliance

Support your Environmental, Social, and Governance initiatives with documented resource efficiency.



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