

***ELECTRONIL***

INTEGRATED POWER SOLUTIONS

FOR WATER TREATMENT FACILITIES

We are nearly 30 years in the Egyptian markets, and only getting better. For the last two decades, we have engineered and shaped the future, redefining what power means to people's lives, careers and lifestyles.

# POWER IS WHAT WE DO

## WHY ELECTRONIL!

We are a group of fearless thinkers, driven to empower people all over the nation – with reliable, revolutionary generators, power systems and power solutions.

We exist for one reason: **to move you forward.**

لدينا ما يقرب من ٣٠ عاماً من الخبرة في الأسواق المصرية،  
ونعمل في تقدم دائم. على مدار العقود الزمنية الماضية، قمنا  
بتصميم وصياغة المستقبل، وإعادة صياغة المعنى الحقيقي  
للطاقة الكهربائية لحياة عملائنا وأعمالهم وأنماط حياتهم.

# WE WHAT WE DO

## لماذا تختار منتجات إلكتروني!

نحن مجموعة من المفكرين لا يخافون الابتكار، مدفوعون بشغف  
تمكين عملائنا في جميع أنحاء البلاد - بمحطات توليد طاقة  
إعتمادية وموثوقة، بالإضافة إلى أنظمة وحلول متكاملة للطاقة.

نعمل بجهد لسبب واحد: للحفاظ على تقدمكم.

# OUR STORY

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A Magnificent force in power solutions since 1995, ELECTRONIL™ POWER SOLUTIONS is committed to reliable, intelligent products, advanced engineering and responsive after-sale support.

Over the years, we have amplified our well-known reputation to be a leader known for its premium range of generator-sets and control systems. Together, with building on the legacy of a leading brand, to create one of the largest generator-set and control systems providers in Egypt—and continued an unwavering focus on reliable power systems and innovation.

We deliver integrated industrial power systems for emergency, prime and continuous applications throughout whole Egypt—from data centers and hospitals to water treatment and hospitality facilities. With a deep understanding of your industry, we excel in designing customized power systems that simplify your most complex challenges.



# من نحن

تُعد شركة إلكترونيك لحلول الطاقة المتكاملة قوة رائدة في مجالات حلول الطاقة الكهربائية منذ عام ١٩٩٥، ومنذ ذلك الحين ونحن نلتزم بإمداد عملائنا بمنتجات موثوقة وذكية ومتطورة هندسياً بالإضافة إلى دعم سريع الاستجابة لخدمة ما بعد البيع والصيانة.

على مر الأعوام، ضاعفنا من سمعتنا المعروفة لكوننا من أكبر الكيانات الرائدة والمعروفة بمنتجاتها المتميزة من وحدات توليد الطاقة الكهربائية وأنظمة التحكم والحماية والتشغيل. بالإضافة إلى، واستناداً إلى إرث علامة تجارية رائدة، قمنا بإنشاء واحد من أكبر مزودي الأسواق المصرية بأنظمة الطاقة المتكاملة وأنظمة تحكم وتشغيل وحماية إعتمادية وموثوقة على مستوى جمهورية مصر العربية - واستمر التركيز المستمر على إبتكار أنظمة طاقة متكاملة وموثوقة.

نقوم بتقديم أنظمة توليد طاقة صناعية متكاملة لتطبيقات الطوارئ والمحطات الرئيسية والطاقة المستمرة في جميع أنحاء جمهورية مصر العربية - من مراكز المعلومات والمستشفيات إلى محطات معالجة مياه الشرب والصرف الصحي والفنادق. بدراسة وفهم عميق لمجال عملك، نتميز في تصميم أنظمة طاقة متكاملة ومتخصصة والتي تعمل على تبسيط التحديات الأكثر تعقيداً التي يمكن أن تقابلك.



# TOTAL SYSTEM INTEGRATION

**Everything works together, Just as it should.**

A Power System is only as good as the parts that define it. That's why we engineer every detail down to the last bolt. From generators and power transfer switches to paralleling systems and switchgear and controllers, everything works together seamlessly. Because we design, engineer and test it that way.

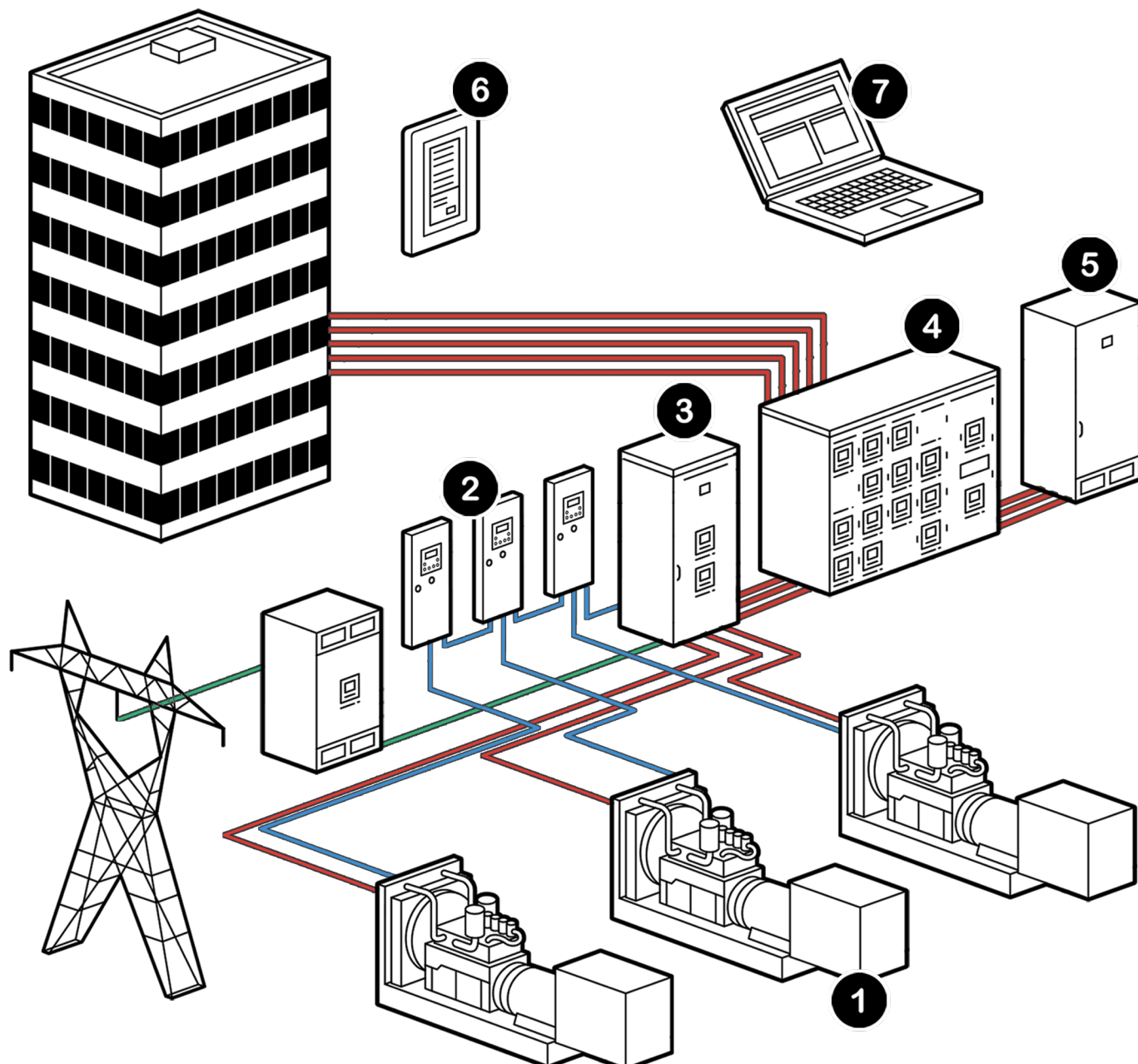
That's the **ELECTRONIL** difference.

**Good news:** There is more, behind that power system, there is a team of dedicated engineers that focuses on every element-generators, power transfer switches, switchgears and control systems-to be sure that the system you get is the system you need. You will know that your project is supported by an expert team, customized to your exact needs, brought in on budget and on time.

***From spec to start-up to service, we do it all.***







## TOTAL SYSTEM INTEGRATION

1

### ED™ SERIES DIESEL GENERATOR SETS

Powered by Perkins, Volvo-Penta, Cummins or Baudouin Diesel Engines, 9 - 3000 kVA

5

### ELECTRONIL™ POWER FACTOR CORRECTION SYSTEMS

Up to 15 steps.

2

### ENCP™ 9.1 GENERATORS PARALLELING SYSTEM

2-32 generator set can be paralleled with automatic power management and automatic engine run-hour balancing.

6

### REMOTE ANNUNCIATOR

Optional remote system monitoring.

3

### ENCP™ 9.3/ENCP™ 6.x POWER TRANSFER SWITCH

Dedicated for parallel control systems, standard, bypass-isolation and service-entrance switch configurations.

7

### MONITORING SOFTWARE

Monitors generators and control systems from a PC and Smart Phones (Optional) Modbus or Ethernet.

4

### ELECTRONIL™ POWER DISTRIBUTION PANEL

Up to 6000 Amps.





# **DEMAND IS INCREASING— AND SO ARE REGULATIONS.**

## **Here's What You Need to Know.**

As water consumption doubles globally every 20 years, scarcity becomes an increasing concern, and individuals and municipalities are more focused than ever on using this resource wisely and efficiently for industrial, domestic and agricultural uses. That concern and new technologies are driving a rapid evolution in the reclamation and reuse of wastewater—and having a significant impact on the power systems needed to support water-treatment plants. In addition, countries are increasingly using water desalinization to transform seawater and brackish water sources into clean drinking water.









## Assessing Facility Needs

While most citizens take clean water for granted, a power outage could quickly jeopardize this essential resource. Reliable backup systems are critical to keep pumps and other key equipment running and avoid potential consumer safety issues.

Continuous power is also necessary to prevent flooding and discharge of untreated wastewater, which can lead to environmental issues and fines.

## Power Supply

Redundancy is an essential design feature for sanitary and wastewater treatment facilities to ensure continuous operation of equipment and to keep communities supplied with fresh, safe water. Though technology has improved, the desalinization process requires a great deal of energy to purify brackish and seawater.

## Response Time

Wastewater facilities and the extended infrastructure of pumping and lifting stations have power needs 24/7, so there is no time to wait for a response team. They need a service team that can provide timely emergency recovery no matter where the power system is installed. Remote monitoring can help increase response time, lower operating costs and help improve safety.



## POWER CONSIDERATIONS

Each facility has unique power needs based on its design, the amount of water being-processed and treatment methods. In addition, while some facilities look to backup power solely in the event of an outage, others use generators to offset the power supply needed during peak season especially during mid afternoon in summer.

All of these considerations can lead to a customized solution.



## BACKUP POWER CAN OFFSET PEAK OPERATIONS TOO.

Power Management Programs Can Help Reduce your Facility's Electrical Power Consumption During Periods of High Demand on the Power Utility.

All data provided in this document is non-binding. This data serves informational purposes only and is especially not guaranteed in any way. Depending upon the subsequent specific individual projects, the relevant data may be subject to changes and will be assessed and determined individually for each project. This will depend on the particular characteristics of each individual project, especially specific site and operational conditions.

Learn more at [electronil.com/water-treatment](https://electronil.com/water-treatment)

POWER GENERATORS | POWER TRANSFER SWITCHES | PARALLELING SYSTEMS | SWITCHGEARS | CONTROLS  
GENERATOR MAINTENANCE | SERVICE AGREEMENT | CONTROL SYSTEM UPGRADE | SPARE PARTS | CONSUMABLES

***ENGINEERING THE FUTURE SINCE 1995.***



***ELECTRONIL INTEGRATED POWER SOLUTIONS***

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