

# EcoGate



Advancing gate economics

Need to make gate improvements but worried you don't have the power capacity for new gate equipment? EcoGate lets you move forward with what you already have.



It's all about connections





# Move your gate **FORWARD**

Everyone gains from improvements at airport gates. Yet many gate equipment upgrades require power infrastructure changes that are too costly to justify. This means delayed progress at the gate and missed opportunities.

We believe the traditional way of thinking about GSE is past its prime. That is why we developed a whole new approach called EcoGate.

Moving beyond individual units, EcoGate integrates GSE equipment into a system. An ecosystem, where new efficiencies emerge as units work together to share power and work smarter. A system that enables airports to make improvements they could not make affordably before.

## GSE as an intelligent system

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EcoGate is a high-efficiency system of ITW GSE ground support units that work together intelligently.

The technologies behind EcoGate include, most importantly, ITW GSE's Intelligent Power Management (IPM) solution, embedded in the 3500 PCA. Other EcoGate enablers include stepless compressor control via VFD technologies, power sharing between other units, and

Beyond efficiency, EcoGate enables:

- Easier GSE operation and less risk of human error
- Lower equipment installation costs
- Further electrification for better environmental performance
- Modern infrastructure planning based on a microgrid approach

For airlines and airports, all this contributes to greater profitability. And because EcoGate eliminates the biggest obstacle to progress – the need for expensive new or upgraded infrastructure – you can start now and reap the benefits sooner.

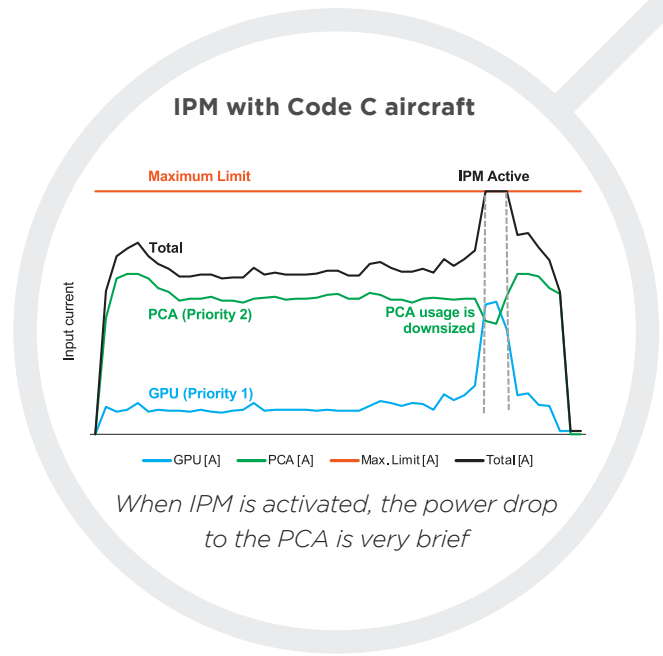
Automated Aircraft Type Detection using VDGS or BMS solutions.

Working together, these technologies transform existing terminal gates into truly modern systems, while future-proofing new facilities from Day One. And the EcoGate journey has only just begun, with more EcoGate-enabled units and deeper integration still to come.

# IPM – the brains behind EcoGate

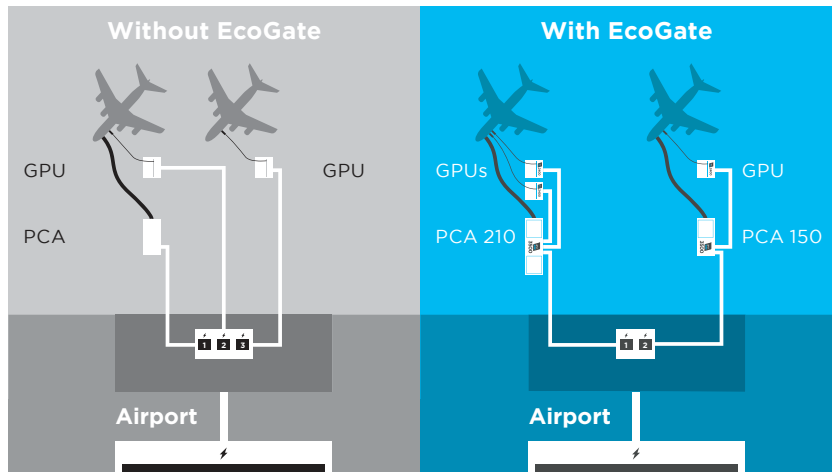
In our experience, most PCA units and GPUs operate with 35–50% surplus capacity. To take advantage of this capacity, we developed IPM, a key EcoGate technology that allocates power dynamically to prioritize the needs of the GPU without exceeding your total power capacity.

Hosted in the 3500 PCA, IPM continuously monitors how much power your GPU and other connected units require. If a unit experiences a sudden increase in power consumption that risks overloading the supply, IPM temporarily “borrows” power from the PCA. The borrowing is so brief, there is no perceptible loss of comfort for passengers and crews. And the gate’s total power capacity is never exceeded.



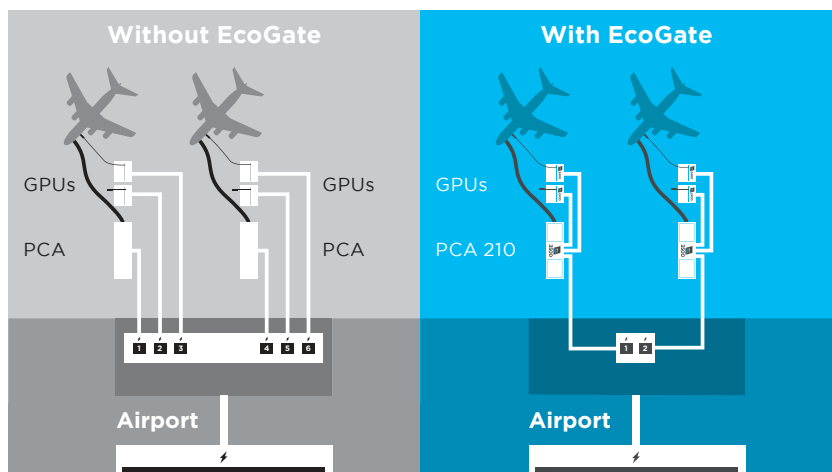
## The EcoGate difference – existing gates

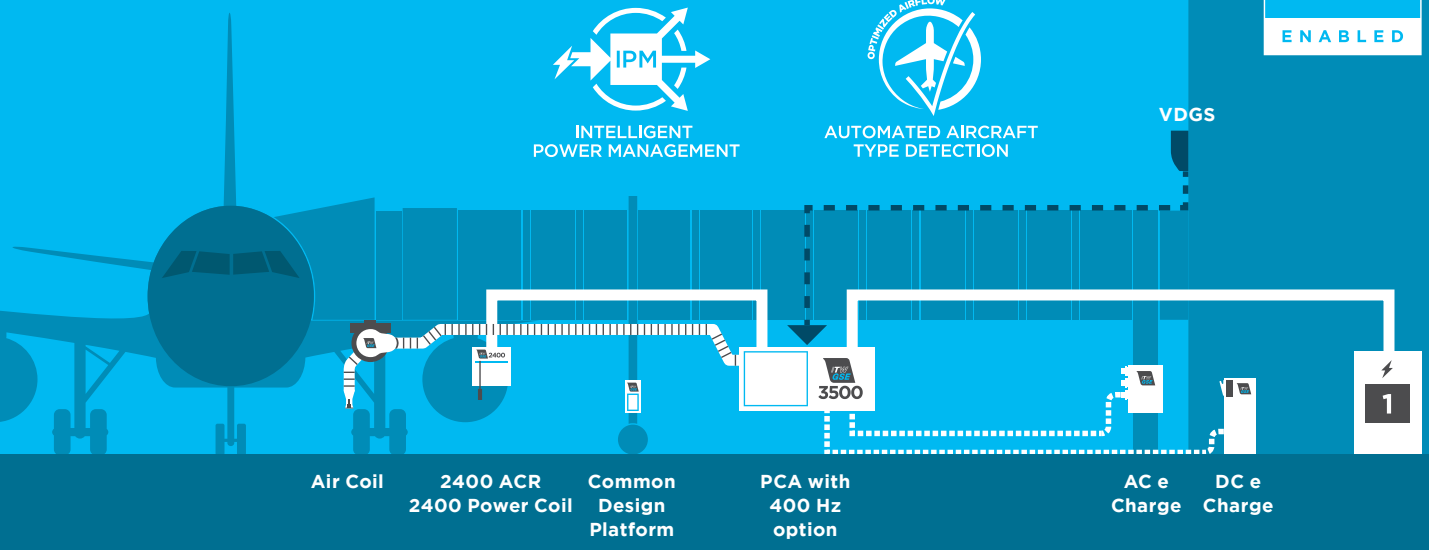
At existing Code C-E installations, EcoGate means just 1 power line from the terminal, plus more GPUs.



## The EcoGate difference – new installations

Including EcoGate in this new Mars F gate design reduces power lines from the terminal from 3 to 1 per gate.





*Your entire EcoGate system is powered by the 3500 PCA, which requires only a single power line from your main power supply*

## EcoGate starts with the 3500 PCA



The ITW GSE 3500 PCA is the centerpiece of your EcoGate installation. The 3500 hosts the IPM control system, VFD technologies and AATD capabilities at the system's core.

Just as important, the 3500 is the physical nexus of your EcoGate system - with a single power line from your main power source running to the 3500, and then multiple lines running from the 3500 to your other units. This saves you from having to deal with more power lines or having to install more power at all.



## Talk to us today!

Starting your EcoGate journey is easy. All you need is the ITW GSE 3500 PCA and one additional EcoGate-enabled unit. Talk to your ITW GSE contact to learn more.

# EcoGate at a glance

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## What it is

- New approach to gate installations that links GSE units together as an intelligent, high-efficiency system

## Why you need it

- EXISTING GATES
  - Lets you make improvements without adding power and other basic infrastructure
- NEW GATES
  - Mimimizes installation costs and complexity and future-proofs the gate design

## What it does

- Makes sure your GPU and other units always have the power they need without overloading your total power supply
- Optimizes supply of fresh air by detecting the exact aircraft type - not just category - as it approaches the gate
- In some circumstances, frees up power for other projects that may need it
- Helps airports and airlines reduce their carbon footprint by facilitating GSE electrification



## Bottom line

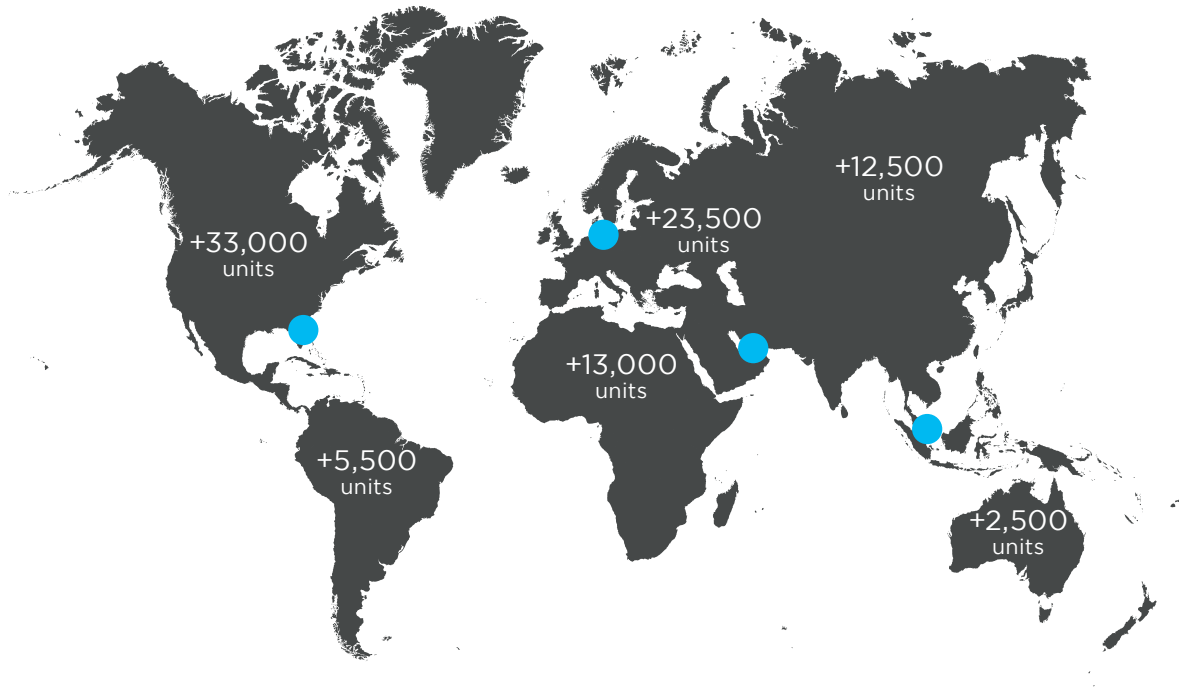
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**Improves profitability  
by reducing costs and  
ensuring customer  
satisfaction!**



# Experience you can count on

Thousands of projects completed in over 100 countries



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ITW GSE is a leading supplier of ground power units, pre-conditioned air units, cables and hoses, with roots stretching back nearly 100 years. From single-gate to complete-airport installations, our premium solutions are tailored to your exact needs.

As an ITW (Illinois Tool Works) company, we have a unique way of doing business. We focus on what we do best, and we strive to do it better than anyone else.

We share knowledge and learn from our customers. And we have the financial strength it takes to be dependable today and far into the future. We are motivated by your success.

In all areas of our business, we are committed to promoting a clean and safe environment.

ITW GSE is based in Odense, Denmark, and Palmetto, Florida, with additional offices in the UAE and Singapore.



### ITW GSE Americas United States

Production  
Sales  
After sales

### ITW GSE ApS Denmark

Production  
Sales  
After sales

### ITW GSE (Branch) United Arab Emirates

Sales  
After sales

### ITW GSE Asia Pacific Singapore

Sales  
After sales