Microsoft Power Platform   PBILab

Power BI

# Microsoft Power BI in Energy

Shape the future of energy using
real-time data analytics and insights

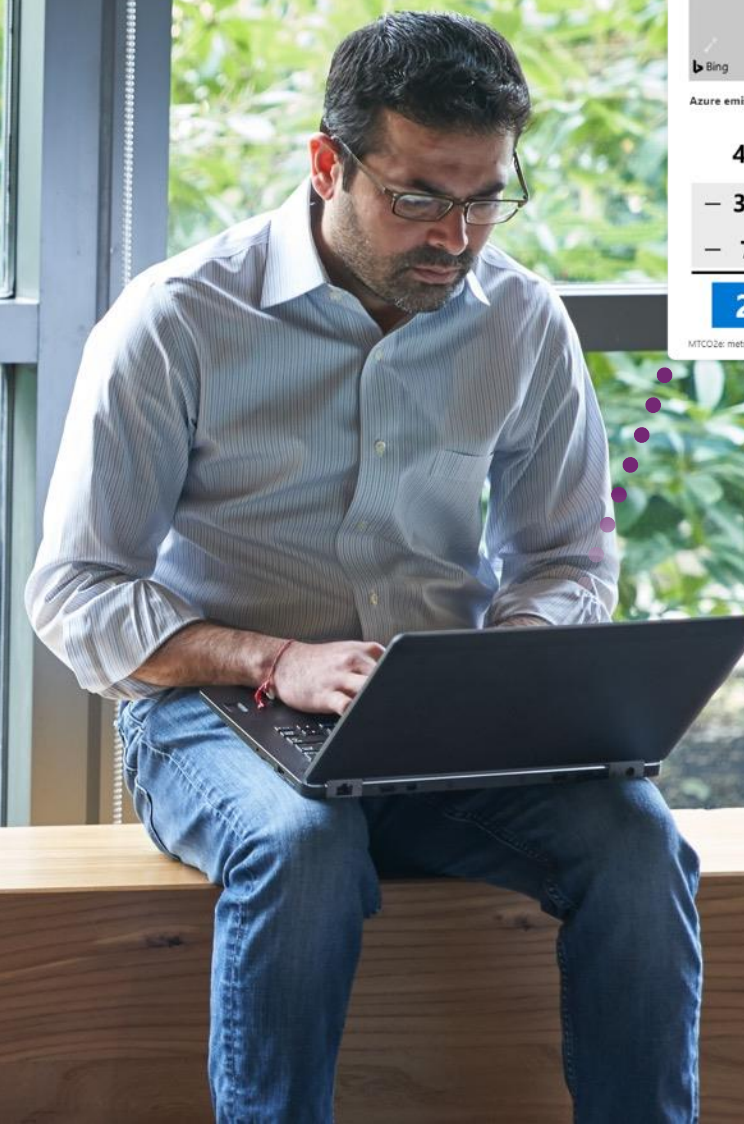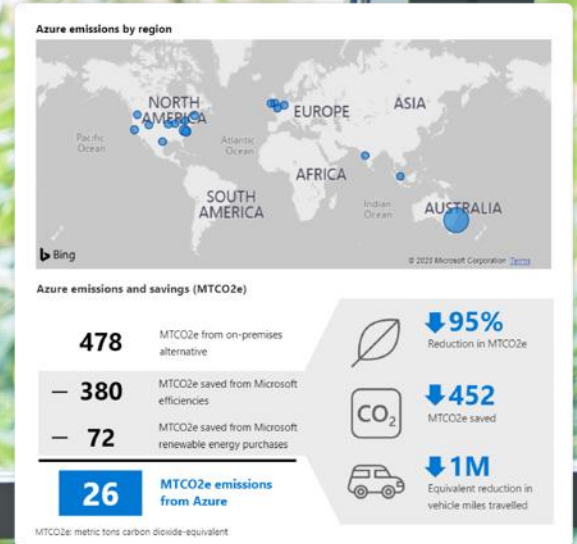**PBI Lab Inc.**
pbilab.com
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# Shaping the future of energy in real-time

Climate change is here, and industries and consumers around the world are mobilizing to meet it at scale. Energy leaders have an opportunity to become environment change agents to meet the needs of tomorrow and deliver strategies essential to business continuity.

Shaping the future of energy relies on a real-time data approach that **minimizes risk, reduces cost, and generates insights at every stage of delivery** to provide a unique competitive advantage.

# Challenges

# Building a future-proof strategy for tomorrow

Enhance energy efficiency and reliability to deliver greater value for stakeholders

Meet consumer demand for renewables with data driving new discoveries in energy solutions

Address workforce skill gaps while empowering a next-generation, data-driven culture

Expand energy insights beyond production to improve grid performance and lessen impact

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Solutions

# How Power BI can help

## Operate for the future

- Increase investment effectiveness
- Reduce emissions
- Transition to predictive strategies

## Transition to clean

- Enable intelligent energy management
- Identify greenhouse emission trends
- Increase renewable energy shares

## Transform your workforce

- Collaborate at scale with digital tools
- Meet regulation and compliance standards
- Enhance security and control user access

## Reimagine energy

- Accelerate energy initiatives with insights
- Increase speed-to-market strategies
- Build a data culture for future-proof intelligence

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# Operate for the future

Transform operations with digital insights that uncover opportunities for greater recovery, efficiency, and reduced OPEX and CAPEX.

### Increase investment effectiveness across the value chain

Dive deeper into operational insights with real-time visibility in Power BI. Connect AI and IoT-enhanced processes for robust modeling. Visualize actionable insights that empower increased investment effectiveness from end-to-end.

### Discover emission-reduction opportunities for improved sustainability

Derive rich analytics from remote IoT tracking processes to allow for shifting sustainability and invest in greater renewable energy sources. Discover opportunities for reducing emissions with interactive, real-time Power BI reporting and dashboards.

### Transition from reactive to predictive strategies

Build predictive analytics into your strategy with Power BI. Transform from reactive to data-driven decision making, empowering your team to enhance critical equipment and resource management throughout the organization.

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**Building sustainable, data-driven solutions with Power BI**

"We used to have 1,000 SSRS reports... Now we have one standard report, which can be sent to everyone. We use row-level security so when a customer signs in they only see their data. Our board absolutely loves Power BI!"

Sharon Matthews,
Reporting and
Analytics Manager
Veolia

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# Transform your workforce

**Collaborate at scale with digital tools to empower frontline workers to uncover solutions in real-time wherever they go.**

### Empower employees for collaborative decision-making

Eliminate intelligence bottlenecks with real-time access to valuable insights. Improve employee efficiency in the field using collaborative Power BI reports and dashboards that can be easily shared in Microsoft Teams for uninterrupted decision-making.

### Reinforce regulatory and compliance requirements

Reach new levels of safety and security with oversight from Microsoft Information Protection and Microsoft Cloud App Security. Leverage advanced protection to ensure governance requirements are met when sharing outside your organization.

### Control user access for enhanced security

Modify access for trusted users to improve analytics accessibility and control. Protect data in Power BI while enabling frontline workers to reach performance goals, ensuring their unified data, relationships, and processes follow compliance best practices.

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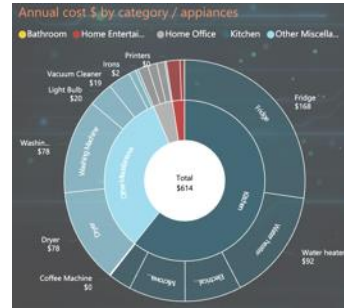**Improving business intelligence through Power BI Pro insights**

"We've now put Power BI across the organization... We have Power BI solutions with an analyst in Australia and the chief exec[utive] all using the same report all the way through with row level security. We've got digital dashboards on our executives' walls with Surface Hubs."

Tim Depledge,
BI Transformation Manager
BP

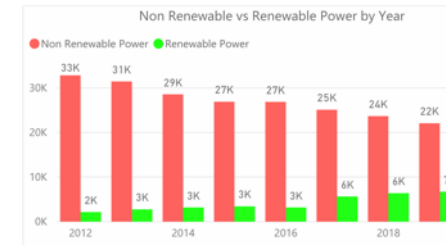bp

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# Explore Power BI reporting and dashboards

Start with pre-built data stories and customize to acquire key value insights for your company
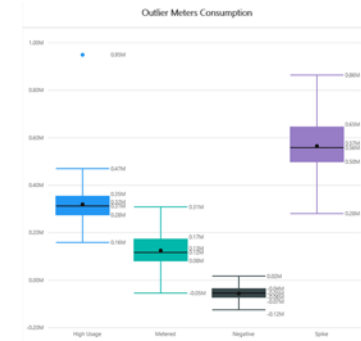


## Calculate and analyze electricity consumption

Estimate and analyze energy needs, costs, and average minutes used per day by home appliances.



## Power generation and demand analysis

Get rich insights on the impact of shifting energy production from polluting, non-renewable energy sources to clean, renewable energy sources.
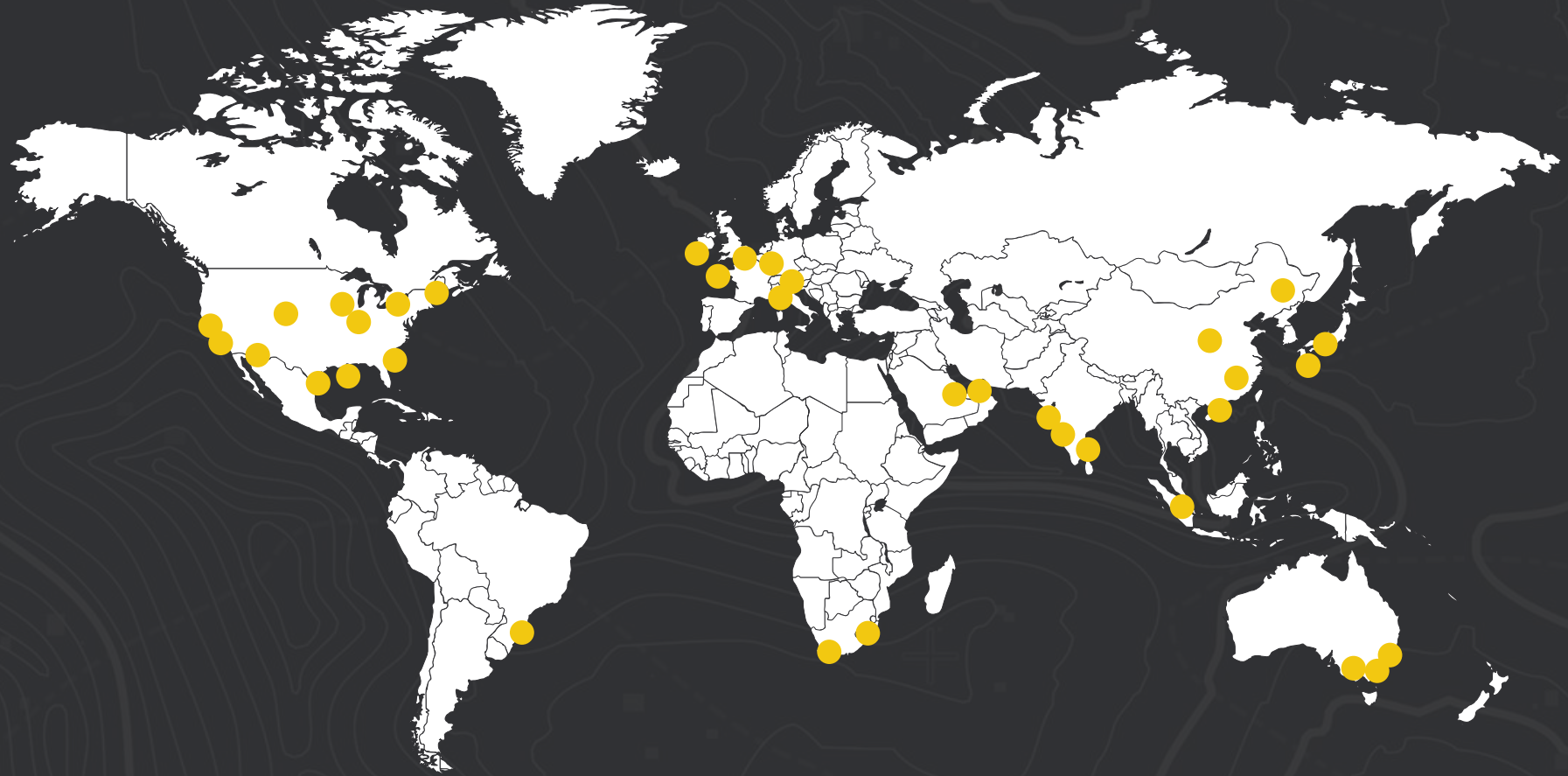


## Water, gas, and utilities consumption and distribution insights

Generate insights from existing energy distribution and consumption data to facilitate actions for conservation and consumer awareness.

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# Secure

Better protect Power BI data with Microsoft Information Protection and Microsoft Cloud App Security, one of the most trusted choices in the world.

**44** Languages

**40** Primary and backup datacenters worldwide

**National Clouds** US Government, China & Germany

ISO 27001 Information Security Management System Certified

CESI China GB 18030

HIPAA

PCI Security Standards Council

European Commission

CSA cloud security alliance®

FedRAMP

irap®

Bundesamt für Sicherheit in der Informationstechnik

W3C® (WCAG) 2.1

# 4 ways

to shape sustainability in real-time with analytics and insights

Learn more  >



**Operate for the future**
Transform operations to improve energy recovery and efficiency.

**Transition to clean**
Identify opportunities in real-time to meet increasing sustainability demands.

**Reimagine energy**
Accelerate sustainable speed-to-market initiatives with future-proof delivery.

**Transform your workforce**
Empower frontline employees to collaborate remotely and at scale.

Microsoft Power Platform

# Get started with Power BI

Create a data-driven culture throughout your organization with collaborative and interactive data visualizations.

Try for Free

Walk through the extensive and powerful capabilities of Power BI with self-paced courses for every level.

Start Learning

Learn how Microsoft is empowering transformation in the energy industry.

Explore Energy Solutions

Connect, learn and discuss best practices with business intelligence experts from a variety of industries.

Join the Community

Register for upcoming live webinar events and watch recorded sessions on-demand.

Watch Webinars

Take your data to the next level with the best tips and tricks from our Power BI experts.

Get the Latest Insights

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