



Providing sustainable solutions

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# Embedded Networks and Smart Grid

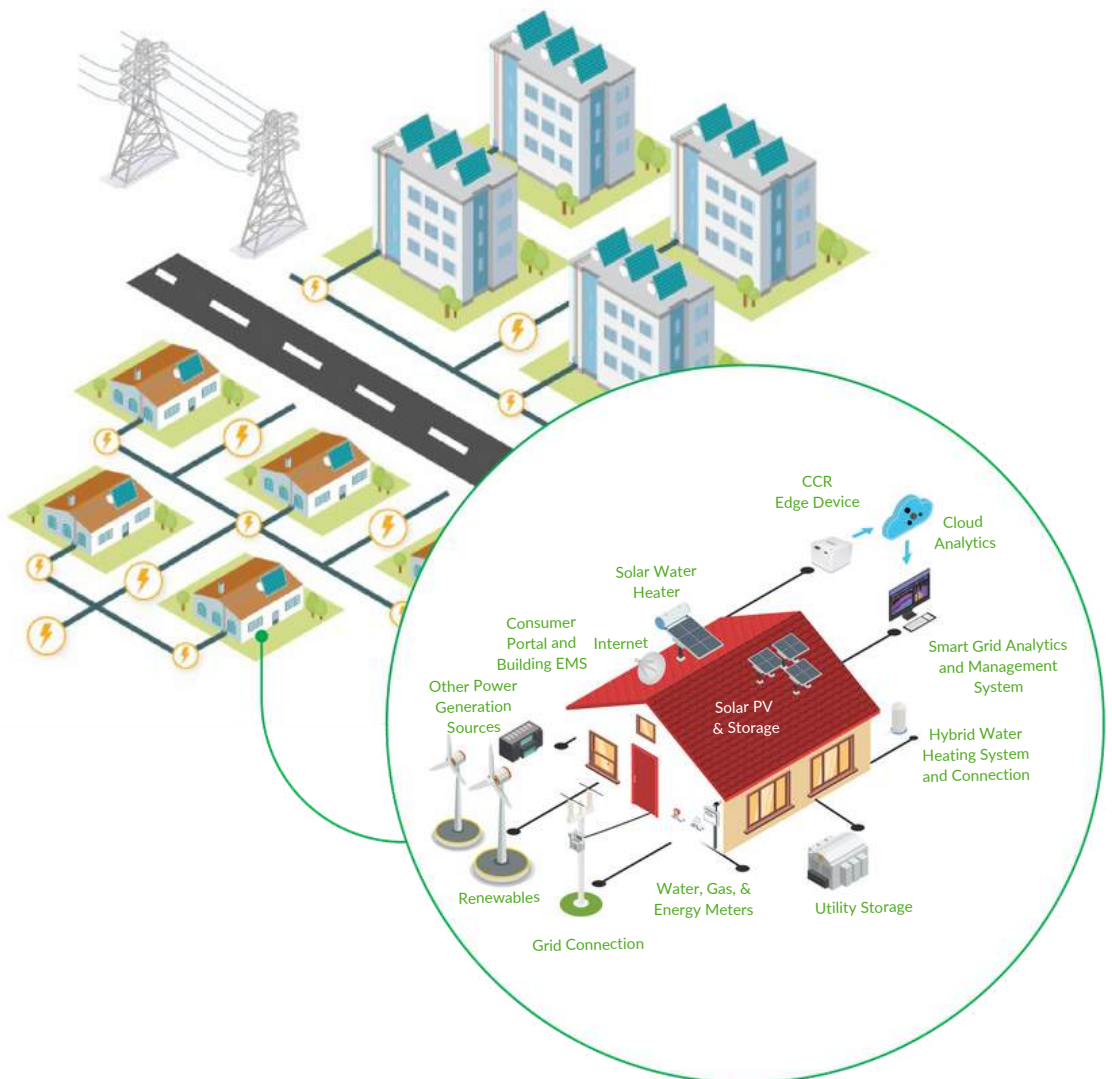
Energy Sustainability Simplified

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## Local Energy Grid With Sub-Metering

A local energy grid with submetering for multi-tenant commercial properties is an innovative energy management system designed to optimise electricity usage, enhance sustainability, and provide precise energy consumption insights for each tenant. They are especially beneficial in multi-tenanted commercial properties, but can also be used in domestic situations where warranted.

The smart grid integrates advanced technologies to monitor, control, and distribute electricity more efficiently across multiple tenants within a property. See Key Features on next page for further details about how it works.



# The Benefits

## Cost Savings



**Reduced Energy Costs:** By optimising energy use and encouraging efficient practices, both property managers and tenants can see significant reductions in energy costs. The ability to track and manage energy consumption helps avoid unnecessary usage, leading to direct savings.

**Demand Response Capabilities:** The smart grid can automatically adjust energy use during peak demand periods, taking advantage of lower rates and further reducing costs.

## Precise Energy Monitoring and Billing



**Accurate Billing:** Submetering ensures that each tenant is billed precisely for their actual energy usage, eliminating disputes and promoting fairness. This transparency encourages tenants to be more mindful of their energy consumption.

**Individual Accountability:** With detailed usage data, tenants can take responsibility for their energy use, leading to more conscious and potentially reduced energy consumption.

## Enhanced Energy Efficiency



**Optimised Energy Use:** The smart grid's ability to monitor and control energy distribution in real-time helps identify and eliminate inefficiencies. Property managers can manage to reduce energy waste, particularly during off-peak hours.

**Data-Driven Insights:** The system provides valuable data on energy consumption patterns, helping property managers and tenants to identify opportunities for energy-saving measures and improvements.

## Sustainability and Environmental Impact



**Integration of Renewable Energy:** The smart grid can seamlessly incorporate renewable energy sources, such as solar panels, reducing reliance on non-renewable energy and lowering the property's carbon footprint.

**Support for Sustainability Goals:** The system's ability to optimise energy use and integrate clean energy will contribute to achieve broader sustainability goals, helping properties achieve green certifications and appeal to environmentally conscious tenants.

## Improved Local Grid Reliability and Resilience



**Real-Time Monitoring and Control:** The smart grid's real-time monitoring capabilities enhance the reliability of energy distribution, ensuring a consistent power supply and reduced risk of outages or disruptions.

**Resilient Energy Supply:** With the ability to integrate energy storage solutions, the system can maintain power during grid outages, providing a more resilient energy supply for critical operations.

## Better Tenant Experience and Satisfaction



**Transparency and Control:** Tenants gain access to real-time data on their energy use, allowing them to make informed decisions and set personal energy-saving goals. This level of control can lead to higher tenant satisfaction.

**Customised Energy Solutions:** The system's flexibility allows tailored energy solutions for different tenants, accommodating their specific needs and preferences.

## Future-Proofing the Property



**Scalability:** The smart grid infrastructure is designed to be scalable, making it easy to expand or upgrade as the property grows or as new technologies emerge. This future-proofs the investment and ensures long-term relevance.

**Adaptability:** As energy regulations and standards evolve, the system can be adapted to comply with new requirements, keeping the property up-to-date and compliant.

## Increased Property Value and Marketability



**Appeal to Eco-Conscious Tenants:** Properties with advanced energy management systems and sustainability features are more attractive to tenants who prioritise environmental responsibility.

**Higher Property Value:** Enhanced energy efficiency, reduced operating costs, and modern amenities such as smart grids can increase the overall value and marketability of the property.

# Key Features

## Smart Energy Distribution:

The smart grid intelligently manages the flow of electricity, balancing demand and supply in real-time. By utilising data from sensors and smart meters, the system can dynamically allocate power where it's needed most, reducing waste and ensuring reliable energy delivery to all tenants.



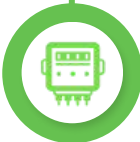
## Real-Time Data:

With real-time data provided by the smart grid and submetering, property managers can identify inefficiencies, peak usage times, and potential areas for energy conservation. By implementing demand response strategies and optimising energy usage, tenants can experience significant cost savings on their electricity bills.



## Submetering for Individual Tenants:

Submetering allows for the precise measurement of energy consumption by each tenant within the commercial property. Each tenant is equipped with a smart meter that records their electricity usage separately, providing accurate billing and promoting accountability. This transparency encourages tenants to adopt more energy-efficient practices, as they are directly aware of their consumption patterns.



## Integration with Renewable Energy Systems:

The local smart grid is designed to seamlessly integrate renewable energy sources, such as solar panels, into the property's energy mix. By prioritising the use of clean energy, the system reduces the carbon footprint of the building and supports sustainability goals. Excess energy generated can be stored in batteries or fed back into the grid, further enhancing the property's green credentials.



## Easy to Use:

Tenants benefit from greater control over their energy usage through a user-friendly interface that provides real-time data and insights. This transparency fosters a more proactive approach to energy management, where tenants can set goals, track progress, and make informed decisions about their energy consumption.



## Scalable for Future Growth:

The smart grid infrastructure is scalable, making it adaptable to future expansions or changes in the property's energy needs. As new technologies emerge, the system can be upgraded to incorporate additional features, ensuring long-term value and relevance.



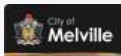
## Want to Make the Investment?

By incorporating submetering within a local smart grid, multi-tenant commercial properties can achieve higher energy efficiency, lower costs, and support broader sustainability initiatives. This advanced energy management solution not only benefits the property owners and managers but also empowers tenants to take charge of their energy use, fostering a collaborative effort towards a greener future.

## Want to Know More?

Contact us for no-obligation discussion about how a local energy grid can benefit your commercial property.

## A Few of Our Clients for Embedded Networks and Smart Grids



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