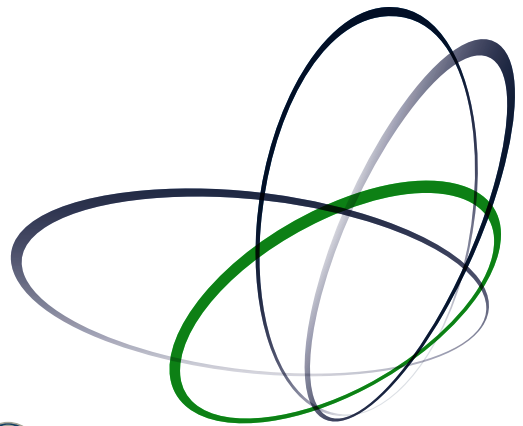


Markets Served



 **i-meter**[®]
Innovative Metering Solutions

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THE RITZ-CARLTON®
TORONTO



MGM RESORTS
INTERNATIONAL™



AIR CANADA CENTRE

BMO  FIELD.



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Inspiring Innovation and Discovery



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WINNIPEG
AIRPORTS AUTHORITY



optima dch global

SIEMENS



Banner Health

Residential

Apartments, condominium corporations, townhouses, gated communities, assisted living facilities

The landlords who pay utility bills face a real financial risk. Rising energy costs often outpace increases in rents or condominium fees, and tenants who pay a pre-set fee for electricity have no incentive to turn off the lights.

Electric meters from Intellimeter will identify exactly where energy is consumed – delivering the powerful information that can encourage conservation, guide energy-efficient renovations, and allocate utility costs based on use.


Whether you are measuring kilowatt-hours for billing, planning Time of Use strategies, or digging deeper into the data, there is an innovative metering solution for you.

Features and benefits


- **Uncover new revenue** – Improve your bottom line by billing tenants for the power they consume, using revenue-grade meters approved Measurement Canada and meeting ANSI revenue standards.
- **Identify energy savings that are right for you** – Earn energy incentives, secure points for LEED ratings, and help tenants realize savings from their individual conservation efforts.
- **Enhance Building Automation Systems** – Control energy across an entire building or in a single unit.
- **Choose your billing system** – Intellimeter’s open platform will support the software of your choice. You are not locked into a proprietary system.
- **Save space** – Intellimeter’s compact, modular meters can be embedded inside existing Distribution Panels (DP), using far less space than traditional socket-based meters.
- **Install with ease** – Every meter is shipped with complete engineering drawings, connection diagrams and installation instructions. Our Current Transformers also have built-in safety features to protect installers.
- **Reduce maintenance costs** – Every meter is based on an electronic design, so there are no moving parts to wear out.
- **Enjoy a quick ROI** – Use the data to build informed energy strategies that deliver quick returns on investments. You can even eliminate all of a meter’s up-front costs through a No Capital Cost program.

SPECIAL NEEDS HOUSING


David Street – Kitchener, Ontario

Overview:	A Government application for low-income subsidized housing	
Problem:	Required Energy Cost Management due to power consumption	
Solution:	Consisted of two phases 1) Building retrofit 2) New building application, with an expansion on phase 1's solution. Installed M3 series meters in the retrofitted building and expanded in the building with i-meter™ 636.	
Benefits:	Increase cost and energy management due to energy monitoring	
Property Management:	Housing Services Corporation	


Gordon Street Housing Project – Fergus, Ontario

Overview:	A Government application for low-income subsidized housing	
Problem:	Required Energy Monitoring system with billing capabilities implemented during construction stages of the building	
Solution:	Installation of i-meter™ 636, with the ability for tenant billing	
Benefits:	Energy Cost Management system installed. First installation for the region of Wellington County Increase awareness of energy consumption by the new tenants	
Engineer:	M&E Engineering	

Richgrove Senior Centre – Etobicoke, Toronto

Overview:	Senior center	
Problem:	Requires meters for the evolving needs of the building and the ability for the developer to control energy usage	
Solution:	i-meter™ 636	
Benefits:	The metering solution allows the developer to control energy usage in support of the green initiatives and evolve depending on their needs	
Property Management:	Minto Group	

Taunton Mills – Whitby, Ontario

Overview:	Retirement housing with long term care facility built in	
Problem:	Requires metering for evolving needs and implementation of energy cost management	
Solution:	M3 Series meters	
Benefits:	Reduction in energy costs due to implementation of energy management systems	
Engineer:	M&E Engineering	

CONDOMINIUMS

Minto Midtown Quantum 1 and 2 – Toronto, Ontario

Overview: Residential and Commercial Building
Problem: Required ability to meter electric vehicle charging, water, gas, and BTU's. Did not have the ability for third-party billing.
Solution: M3 and TX2005 meters
Benefits: Capability to meter water, gas, BTU and electric vehicle charging stations. Implemented the ability to perform third party billing services.
Engineer: Hidi Rae Consulting Engineers
Property Management: Minto Group



Chapman Mills – Barrhaven –Ottawa, Ontario

Overview: Two residential rental buildings
Problem: Required energy cost allocation, water, gas, and BTU metering and the ability for consolidated utility billing
Solution: i-meter™ 636
Benefits: Ability for energy cost allocation. Installation was completed successfully to show the advantages of coordinated sub-metering in contrast to segmented utility metering.
Property Management: Minto Group



Toy Factory Lofts – Toronto, Ontario

Overview: Retrofit of existing toy factory into commercial and residential building
Problem: Required separate billing for residential and commercial areas
Solution: M3 Series and TX2005 meters
Benefits: Able to monitor and bill tenants based fair usage
Property Management: Dash Property Management, Lanterra



Liberty Village – Toronto, Ontario

Overview: Various commercial buildings throughout Liberty Village in Toronto
Problem: Required various retrofits on commercial space for billing purposes. Metering solutions were required for water, gas, and electric consumption.
Solution: TX2005, water, and socket based meters
Benefits: Able to monitor energy consumption and bill tenants accordingly
Property Management: York Heritage Properties




Pantages Condos – Toronto, Ontario


Overview: Residential and Commercial building.
The building consists of residential, retail and hotel space.
Problem: Retrofit requiring use of existing metering
Solution: M3 series and TX2005 meters
Benefits: Interfaced with the existing pulse base metering
Engineer: Merber Corporation Consulting Engineers
Property Management: Simerra Property Management Inc.(FirstService Residential)




SOHO Hotel – Toronto, Ontario

Overview:	Ground lever commercial applications	
Problem:	Fair billing required for tenants for water and electric energy consumption (due to spa consumption)	
Solution:	TX2005, water and PT2K meters	
Benefits:	Improved energy cost allocation. Hot water recirculation of hot/cold water in kitchen. Separation of billing for desired tenants.	


Mansions on George – Cobourg, Ontario

Overview:	Old school house retrofitted into a residential building.	
Problem:	Tenant billing required, lack of space for metering system.	
Solution:	i-meter™ 636	
Benefits:	Incorporated metering solution into power distribution panel allowing for tenant billing to occur.	


1415 Lawrence Avenue – Toronto, Ontario

Problem:	Requires metering solution for limited space requirement to allow tenant billing. The metering solution should work with retrofitted building and the new building.	
Solution:	M3 series meters	
Benefits:	Metering solution for energy monitoring and tenant billing	

Bloor Walk – Toronto, Ontario

Overview:	Heritage building with expanded residential tower	
Problem:	Preserve heritage and implement metering solution for fair tenant billing.	
Solution:	M3 series meters	
Benefits:	Able to install metering solution and incorporate billing option	

Bogart Pond – Newmarket, Ontario

Overview:	Multi-tenant residential building	
Problem:	Requires tenant billing capabilities and metering solution to be implemented with challenging design and space limitations	
Solution:	M3 series meters	
Benefits:	Metering solution implemented to allow tenant billing capabilities	
Property Management:	Forrest Group	

Carpet Factory – Toronto, Ontario

Overview: Commercial Retrofit
Problem: Requires electrical metering solution built into existing infrastructure.
Solution: Socket based, expanded with TX2005 meters.
Property Management: York Heritage Properties



Elgin Bay – Orillia, Ontario

Overview: Condominium application
Problem: Required metering to monitor and bill tenants for electrical consumption. Needs to have the capabilities for possible future marina installations
Solution: M3 Series
Benefits: Able to bill tenants due to metering solution provided. The metering solution is expandable for any future marina installations.
Property Management: Brookefield Residential Services



Europa – Toronto, Ontario

Overview: Residential/ commercial building
Problem: Required space limited metering solution during late stage of construction process.
Solution: M3 Series
Benefits: Provided a metering solution that allows for tenant billing.
Property Management: Beaverhall and Graywood Home Developments



Harbour Walk – Cobourg, Ontario

Overview: Multi-phase low-rise condominium, consisting of multiphase construction.
Problem: Required electric and gas metering built into independent buildings to tie together as one consolidated system.
Solution: i-meter™ 636 and M3 Series Meters
Benefits: Built as 3 phases. Phase 1 & 2 tied together the metering from separate independent buildings. Phase 3 installed metering solutions into independent buildings with one system
Property Management: Mutual Development Group



Old Thornhill Village – Toronto, Ontario

Overview: Townhouse Condominium
Problem: Wished to eliminate a costly and unsightly solution that was suggested by the local utility company. Required metering solution to bill tenants for electrical use.
Solution: M3 Series
Benefits: Installed electrical metering solution in basement parking lot and enabled centralized meter installation and eliminated porch metering solution provided by the utility company.



Panoramic Point – Orillia, Ontario

Overview: Condominium
Problem: Required tenant billing ability
Solution: M3 Series
Benefits: Installed revenue grade metering solution that can be used for tenant billing



Tiger Lofts – Cambridge, Ontario

Overview: Residential Condominium
Problem: Factory retrofit with tenant billing capabilities and commercial metering.
Solution: M3 Series
Benefits: Implemented metering and billing solution in garage of the factory.
Property Management: Lancer Developments



MISCELLANEOUS

Pilgrims Rest Campground – Lakefield, Ontario

Overview: Campground
Problem: Requires central metering solution with the ability for a manual read and the potential for future expansion for an automated read.
Solution: TX2005 with RF technology
Benefits: Camp was rewired with central distribution panels and has the ability for future automated reading with RF technology.



Camp n' Class – Stony Plain, Alberta

Overview: Campground location for large RV's with the desire for extended periods of stay, with central electrical distribution
Problem: Various locations for electrical metering throughout the park
Solution: i-meter™ 636
Benefits: Ability to read the Meter Display Unit (MDU). Automated for central meter reading at park office with the option for future computer automation with web-based billing



Wyndance Homes – Uxbridge, Ontario

Overview: Golf Course facility and residential development
Problem: Required greater ground water management systems
Solution: Radio controlled residential irrigation solution
Benefits: Enabled residential construction on a shared golf course property



Commercial

Airports, malls, retail space, office towers, arenas, cellular towers

Commercial properties are more sophisticated than ever. Today's airports, plazas, office towers or arenas often have multiple tenants, and every one of them can present unique energy needs.

Electric meters from Intellimeter give property managers the accurate data needed to manage utility costs, recover revenue, earn energy incentives, and increase efficiencies.

The data supports endless possibilities. Individual tenants can be billed for the electricity they use. Advanced Building Automation Systems can re-route cool air from an unoccupied suite instead of activating another chiller. Real-time readings can support preventive maintenance strategies or show how a new lighting system affects other electronics.


Whether your property has commercial, retail or residential tenants – or a combination of them – there is an innovative metering solution for you.

Features and benefits


- **Uncover new revenue** – Improve your bottom line by billing tenants for the power they consume, using revenue-grade meters approved Measurement Canada and meeting ANSI revenue standards.
 - **Identify energy savings that are right for you** – Earn energy incentives, secure points for LEED ratings, and help tenants realize savings from their individual conservation efforts.
 - **Monitor system performance** – Accurately measure voltage, current, power factor, frequency, power quality and Total Harmonic Distortion – online and in real time.
 - **Enhance Building Automation Systems** – Control energy across an entire building or in a single unit.
 - **Choose your billing system** – Intellimeter's open platform will support the software of your choice. You are not locked into a proprietary system.
 - **Save space** – Intellimeter's compact, modular meters can be embedded inside existing Distribution Panels (DP), using far less space than traditional socket-based meters.
 - **Install with ease** – Every meter is shipped with complete engineering drawings, connection diagrams and installation instructions. Our Current Transformers also have built-in safety features to protect installers.
 - **Reduce maintenance costs** – Every meter is based on an electronic design, so there are no moving parts to wear out.
 - **Support preventive maintenance programs** – Use real-time data to schedule preventive maintenance activities.
- Manage assets** – Enhance your asset management programs to better monitor equipment performance and schedule replacement.

AIRPORTS


Vancouver International Airport (YVR)

Overview:	Intellimeter has provided Vancouver International Airport with a variety of services/products throughout the airport for 3 generations	
Problem:	The airport requires the ability for tenant billing, facility management, water, gas and electric metering	
Solution:	Upgraded IMA meter to M3 Series metering solution	
Benefits:	Provided the flexibility to address evolving and/or changing tenant metering requirements without the needing additional meters. Integrated the new solution with the existing computer network to facilitate communication between buildings and remote facilities throughout the airport. The airport is able to meter the hotel located onsite as well.	
Property Management:	Vancouver Airports Authority	


Toronto Pearson Airport (YYZ)

Overview:	International Airport with a variety of vendors located onsite	
Problem:	Requires meter upgrade for tenant billing and facility management. Use existing network and include radar tower in metering.	
Solution:	i-meter™ 636 and M3 series meters	
Benefits:	Installed water, gas and electrical metering with a solution that provides the flexibility for evolving or changing tenants without the need to change the current meters. Integrated the new metering system and RF technology with the existing computer network allowing for communication from multiple different buildings and remote locations, such as the radar tower.	
Engineer:	Mulvey and Banani	
Property Management:	Greater Toronto Airport Authority	

Oshawa Municipal Airport (YOO)


Overview:	Municipal Airport with commercial and private tenants	
Problem:	Need metering system to allow for cost allocation for hangar consumption.	
Solution:	TX2005 and Socket based meters with manual read application.	
Benefits:	Cost allocation for airport slips, depending on lighting, bay doors.	

Winnipeg James Armstrong Richardson International Airport (YWG)


Overview:	Commercial Retail Tenants	
Problem:	Billing for energy consumption	
Solution:	M3 Series	
Benefits:	Cost allocation for tenants	

MALLS


Westmount Shopping Centre – London, Ontario

Overview:	Retail shopping mall	
Problem:	Had unreliable and problematic existing metering system for water, gas, and electrical consumption	
Solution:	i-meter™ 636	
Benefits:	We were able to use existing infrastructure to facilitate the replacement of the previous system, reducing costs for installation. The mall now has a more reliable system for third party billing.	
Property Management:	Bentall Kennedy LP	


10 Dundas East – Toronto, Ontario

Overview:	Retail, office, and entertainment complex	
Problem:	Require third party billing and monitoring for food court, theatre and university spacing. Had issues metering the signage's energy consumption	
Solution:	IM5 and P trackers	
Benefits:	Installed electric, water, and gas metering with third party billing application	
Property Management:	Bentall Kennedy	


Oriental Centre – Toronto, Ontario

Overview:	Hong Kong Style shopping centre	
Problem:	Requires retail tenant billing and energy monitoring.	
Solution:	ENG-16-8	
Benefits:	Installed Electronic monitoring and billing abilities for the property management company	
Property Management:		

Splendid China Mall – Scarborough, Ontario


Overview:	Hong Kong Style shopping centre	
Problem:	Requires retail tenant billing and energy monitoring.	
Solution:	M3 Series	
Benefits:	Energy cost allocation and tenant billing	
Property Management:	Duka Property Management Inc	

Vaughn Mills Mall – Vaughn, Ontario

Overview:	Shopping mal	
Problem:	Requires tenant billing	
Solution:	M3 Series	
Benefits:	Energy cost allocation and tenant billing	
Property Management:	Ivanhoe Cambridge	


RETAIL SPACE

Distillery District – Toronto, Ontario


Overview:	Pre-existing industrial plant designated as a heritage site. The plant was converted to commercial space for shops and vendors. Consists of 15 buildings	
Problem:	Required office and tenant metering for cost analysis	
Solution:	M3 series and BTU meters for air conditioning	
Benefits:	Ability for energy cost allocation as well as cost analysis.	
Property Management:	Dundee Realty	

OFFICE TOWERS


Liberty Centre – 3500 Steeles, Toronto, Ontario

Overview:	High profile corporate tenants	
Problem:	Requires a metering system for sensitive banking sector equipment	
Solution:	Intellimeter Legacy Meters with power line technology	
Benefits:	Cost allocation and energy monitoring.	
Property Management:	Liberty Centre Management	


55/105/155 Commerce Valley Drive – Markham, Ontario

Overview:	High-Profile corporate tenants	
Problem:	Need to monitor energy consumption	
Solution:	Eng -16, IM5	
Benefits:	Able to monitor energy consumption	
Engineer:	Lapas Consulting Engineers Ltd.	
Property Management:	Northam Properties	


RBC Centre – Toronto, Ontario

Overview:	Cadillac Fairview developed projects	
Problem:	Desire to show energy consumption	
Solution:	TX 2005 tied into p-tracker data records	
Benefits:	Provided Cadillac Fairview with the ability to view energy consumption	
Property Management:	Cadillac Fairview	


TELUS Tower – 25 York Street, Toronto, Ontario

Overview:	Commercial Tenants	
Problem:	Needs LEED certification and to have the metering system tie into BMO management for tenant billing.	
Solution:	M3 and WM5	
Benefits:	Received LEED points towards LEED certification. Able to measure energy consumption and bill tenants for use.	
Engineer:	Mulvey and Banani	
Property Management:	Menkes	


Offices – 35 McCaul Street, Toronto

Overview:	Retrofit current commercial and office space	
Problem:	CT location, need to be able tenant meter/bill and provide the ability to expand on upper levels.	
Solution:	TX2005 and M3 Series	
Benefits:	Able to meter and bill multiple commercial offices and tenants and tie into CT's located in main distribution switchboard. The meters installed enabled expansion on upper levels for subdivided tenant areas	


RBC – 315/325 Front St, Toronto

Overview:	RBC data Centre	
Problem:	Required tenant and energy monitoring systems	
Solution:	62 WM5 meters with Modbus Monitoring System	
Benefits:	Subdivided the energy bill between the two tenants and installed the meters for energy monitoring and analysis. Combined revenue class tenant metering and Modbus based energy monitoring into one system for simplistic energy monitoring and analysis.	


Metro Toronto Centre (Wellington/King) – Toronto

Overview:	Commercial office and retail tower	
Problem:	Requires commercial tenant metering for the office and retail space. 600 Volt delta and 120/208 volt power distribution	
Solution:	i-meter™ 636 modules with data loggers. Modbus for dual revenue class tenant metering and advanced energy monitoring.	

Richmond Adelaide Centre – Toronto

Overview:	Commercial office and retail tower	
Problem:	Requires commercial tenant metering for the office and retail space; 600 V delta and 120/208V power distribution	
Solution:	i-meter™ 636 modules with data loggers and MODBUS for dual revenue class tenant metering and advanced energy monitoring	
Benefits:	Able to monitor desired energy consumption and billing tenants according to energy consumption	
Engineer:	Mulvey and Banani	
Property Management:	Oxford Properties Group	

Dundee Place – Toronto, Ontario

Overview:	Office and retail space	
Problem:	Required the ability to meter tenant use and bill accordingly	
Solution:	i-meter™ 636 modules with data loggers. Modbus for dual revenue class tenant metering and advanced energy monitoring.	
Benefits:	Able to monitor consumption and bill the tenants fairly according to usage	

Daimler Chrysler Building – Windsor, Ontario

Overview:	Commercial office space
Problem:	Better energy management and tenant billing ability
Solution:	TX2005 and PT2K meter
Benefit:	Tenant billing built in with increased energy management and monitoring abilities



ARENAS

Air Canada Centre – Toronto, Ontario

Overview:	Entertainment complex with office tower and food concessions throughout
Problem:	Energy monitoring and vendor billing capabilities
Solution:	Legacy Intellimeter 1 Power Line Technology
Benefits:	Metering solution provided for water, gas, electric, and BTU (heating/cooling loads) using power line carrier technology. Tenant billing and billing management service capabilities
Engineer:	Mulvey and Banani
Property Management:	Maple Leaf Sports and Entertainment Ltd.



BMO Field – Toronto, Ontario

Overview:	Sports field with grand stands and vendors
Problem:	Retrofit with space limitations with manual read for billing purposes
Solution:	i-meter™ 636
Benefits:	Installed meters to monitor vendor located in stands and lighting usage. Able to bill vendors according to consumption.
Engineer:	Mulvey and Banani



Joy Ride Bike Park – Markham, Ontario

Overview:	Indoor bike park
Problem:	Required the ability to bill multiple tenants and expand for new tenants after installation. Include the potential to meter gas for rooftop heating units. Require the meter to be installed with limited space.
Solution:	i-meter™ 636
Benefits:	Subdivided the tenant energy consumption for billing purposes. Installed meters in limited space that are capable of including new tenants and rooftop heating units



Stratford Agriplex – Stratford Rotary Complex – Stratford, Ontario

Overview: Multiple tenants located within complex
Problem: Require revenue grade meters to bill multiple tenants and future expansion
Solution: TX2005
Benefits: Able to monitor energy consumption per tenant.
Metering system is designed for easy expansion for accommodation of potential new tenants.



Ontario Place – Toronto

Overview: Large area consisting of various retail vendors. Includes restaurants, a nightclub, fast food kiosks, a theatre and an outdoor stadium.
Problem: Meters are scattered throughout the park, wasting valuable time when meter readings are required.
Solution: TX2005
Benefits: Meters are located throughout the property but are equipped with remote displays for convenient readings at a centralized location.



SportsWorld – Kitchener, Ontario

Overview: Commercial vendor and Office Space
Problem: Require revenue grade metering for billing. Metering system that allows for future expansion
Solution: TX2005
Benefits: Metering system designed with flexibility for future expansion. Revenue-grade meters installed for accurate tenant billing.



HOTELS

Monte Carlo Inn

Overview: Commercial hotel with restaurant
Problem: Require the ability to meter and bill commercial tenants
Solution: TX2005
Benefits: Able to bill and meter with precision for tenant billing.



Hazelton Hotel – Toronto

Overview: Mixed-use building consisting of both hotel and residential space
Problem: BTU and gas metering required and the ability to meter for billing purposes
Solution: M3 series meters
Benefits: Able to charge hotel and residential tenants based on consumption for BTU and gas



Trump – Hawaii

Overview:	Mixed-use building consisting of both hotel and residential space
Problem:	Requires the ability to bill residential space and hotel according to consumption
Solution:	i-meter™ 636
Benefits:	Able to accurately meter and bill tenants according to consumption



Ritz Carleton – Toronto

Overview:	Mixed-use building consisting of both hotel and residential space
Problem:	Requires the ability to bill residential space and hotel according to consumption
Solution:	M3 series meters
Benefits:	Able to accurately meter and bill tenants according to consumption.
Engineer:	Hidi Rae



Red Leaves Resort – Muskoka, Ontario

Overview:	Commercial & Condominium Resort with vendor operations throughout the resort (Spa, restaurants, and gift shops)
Problem:	Submetering throughout the resort in two phases. Phase 1- vendor operations, Phase 2- individual suite metering for condominium units
Solution:	i-meter™ 636 and TX2005 meters
Benefits:	Ability to monitor and measure vendor and individual condominium suite's energy usages




Atlantis Casino – Bahamas

Overview:	Commercial retrofit of casino with vendors located within property
Problem:	Require revenue grade metering for billing.
Solution:	Socket based metering system
Benefits:	Revenue grade metering install using socket based metering systems.




FAST FOOD CHAINS

McDonalds


Overview:	Fast food restaurant with various applications to monitor in one facility	
Problem:	Required a solution for energy management and metering, with remote access.	
Solution:	i-meter™ 636	
Benefits:	Provide individual metering of electrical, water, and gas for the landlord. Supplied McDonald's with an energy information management solution (pilot project) as an online application with web accessibility.	
Success Story:	Intellimeter was able to help capture energy data from various types of kitchen equipment and appliances; including an electric deep fryer, walk in freezer and general lighting.	

Tim Horton's and Pizza Pizza

Overview:	Franchise buildings	
Problem:	Require energy management and electrical, water and gas metering for billing purposes.	
Solution:	TX2005	
Benefits:	Installed revenue-grade metering allowing landlord to bill accurately for water, gas and electrical consumption. Provided franchise energy management.	


MISCELLANEOUS CHAINS

Wind Mobile

Overview:	Located in commercial building space	
Problem:	Energy consumption is billed separately.	
Solution:	TX2005 and Socket-based meters	
Benefits:	Able to monitor cellular tower energy consumption. Installed metering solution as a precautionary measure for accurate billing by building owner.	

CASINOS

Casino Niagara – Niagara Fall, Ontario

Overview:	Casino Operations with various operations and vendors throughout the building	
Problem:	Required the ability to bill independent vendors and better manage and monitor operations.	
Solution:	i-meter™ 636	
Benefits:	Now has the ability for Certified vendor billing options. Has the ability for monitoring energy usage of key operations for energy management.	

Casino Rama – Rama, Ontario

Overview: Casino with independent vendors located on premise

Problem: Require key operation energy management and the ability to meter vendors. Wish to receive LEED certification

Solution: TX2005

Benefits: Received LEED points from installation. Able to bill vendors accurately and manage energy for key operations of the casino



OTHER

Toronto Port Lands

Overview: Multiple commercial, marina facilities, and a recycling plant

Problem: Require tenant billing

Solution: TX2005 and socket based meters

Benefits: Able to monitor energy consumption with revenue grade metering and bill according to fair energy consumption



Pinewood Toronto Studios – Toronto

Overview: Film studio

Problem: Tenant billing

Solution: M3 Series

Benefits: Billing according to energy consumption.



Delta Bingo – Downsview Bingo Hall – Toronto

Overview: Government building and bingo facility

Problem: Require revenue metering for water, gas and electric metering.

Solution: TX2005 and embedded i-meter™ 636

Benefits: Accurate billing for energy consumption with automated and remote-billing services included.



Institutional/Government

Hospitals, healthcare facilities, government offices, schools, correctional facilities, military bases

Property managers play a key role in managing the budgets for any institution or government department. After all, wasteful overhead expenses erode the funds that could be used to deliver public services.

Electric meters from Intellimeter will identify exactly where energy is consumed – delivering the powerful data that can encourage conservation, guide energy-efficient renovations, and even lower utility bills. That is when data transforms into intelligence.

The possibilities are endless. Revenue-grade meters can be used to recover costs from individual vendors like a cafeteria or gift shop inside a multi-tenant building. In-depth data can support accurate forecasts and budgets. The budgets can even be allocated based on the way electricity is actually used, whether it is feeding a high-tech machine, server farm or an office.

No matter how many stakeholders you support, there is an innovative metering solution for you.

Features and benefits

- **Make informed business decisions** – Use the data to allocate energy costs, recover revenue, set budgets, and generate in-depth reports for every stakeholder.
- **Identify the energy savings that are right for you** – Earn energy incentives, secure points for LEED ratings, and help stakeholders realize savings from their individual conservation efforts.
- **Track system performance** – Accurately measure voltage, current, power factor, frequency, power quality and Total Harmonic Distortion – online and in real time.
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- **Reduce maintenance costs** – Every meter is based on an electronic design, so there are no moving parts to wear out.

HOSPITALS

St Joseph – Hamilton, Ontario

Overview:	Medical facility
Problem:	Required to meet LEED standards
Solution:	i-meter™ MF12 (Formerly z-meter)
Benefits:	LEED Points received.
Engineer:	Mulvey and Banani



South Lake Health Centre – Newmarket, Ontario

Overview:	Hospital with multiple food and retail vendors located throughout the hospital
Problem:	Requires revenue grade metering for billing purposes.
Solution:	TX2005
Benefits:	Installed revenue grade metering with remote servicing for tenant billing ability. Utilized the hospitals existing hospital computer network for communication with meters.



Sick Kids

Overview:	Hospital with food and retail vendors located within facility
Problem:	Revenue metering for billing of food and retail vendors.
Solution:	TX2005
Benefits:	Integrated the revenue grade metering into existing hospital computer network for meter communications.



HEALTH CENTRES

Taunton Health Centre – Oshawa, Ontario

Overview:	Medical office space.
Problem:	Submetering and fair billing practices for various medical practitioners
Solution:	TX2005
Benefits:	Able to bill medical practitioners according to energy consumption. Equipped the building for future expansion when required. Built in automation for future remote meter reading (not currently activated)




One Elizabeth Street Medical Centre – Orangeville, Ontario

Overview:	Medical office space
Problem:	Individual tenant energy billing.
Solution:	i-meter™ 636 and TX2005
Benefits:	Revenue grade metering for billing of medical practitioners with the potential for remote metering services and tenant billing




Springdale Medical Centre – Brampton, Ontario

Overview:	Medical Office Space	
Problem:	Require the ability bill tenants.	
Solution:	i-meter™ 636	
Benefits:	Installed units into GE distribution panels. They are now able to bill medical practitioners fairly according to energy consumption	


GOVERNMENT OFFICES

Peel Police – Brampton, Ontario


Overview:	Police headquarters for the region of Peel	
Problem:	Desired LEED certification, and energy monitoring capabilities	
Solution:	TX2005 meters pulse output.	
Benefits:	Received LEED points towards their LEED certification. The metering system captured the police radio system antenna from a different location and integrated it with the metering system for energy monitoring.	

SCHOOLS

U of T –Mining Education – Toronto

Overview:	Mining Educational Building for University of Toronto.	
Problem:	Conservation tool needed to educate students on energy conservation, alternative energy generation (solar panels), energy management.	
Solution:	i-meter™ 636 with Mango software integration with MODBUS TRU protocol integration.	
Benefits:	Educational tool, used as a competition for graduate students to conserve energy. It created an educational program that is designed to teach energy management and alternative energy generation (solar) to graduate students. The solar panel monitoring system illustrated the input power to feed common area loads and the decrease on normal power usage.	

U of T – Scarborough Campus – Toronto

Overview:	Retrofit residence townhouse style building.	
Problem:	Metering for energy conservation and management.	
Solution:	Socket based meters (Intella series meters) with RF technology with central collection and processing.	
Benefits:	Ability to measure the effect of the retrofit hot water tanks, lighting, and window film conservation efforts.	

McMaster University

Overview: Monitor health facility of the university
Problem: Required tenant-billing application
Solution: i-meter™ 636 and TX2005
Benefits: Able to charge tenants according to consumption.



Brock University Residence (Schmon Parkway) – St. Catharines, Ontario

Overview: Residence for Brock University students
Problem: Required centralized metering for water and electricity, with the ability for remote billing services.
Solution: Embedded i-meter™ 636, specialized PT2K data logger with pulse filters for water metering data collection
Benefits: Centralized metering for electricity and water for easy readings. Has the ability to utilities remote billing services.



George Brown College

Overview: Large retail space
Problem: Energy monitoring and tenant billing application
Solution: i-meter™ 636 and TX2005
Benefits: Energy consumption monitoring and revenue grade metering for billing of tenants.



Memorial University – St. John's, Newfoundland

Overview: Food Vendors
Problem: Independent billing for food vendors
Solution: ABB A meters and IMS meters
Benefits: Integrated the provided meters and data logging with university computer system. Provided a management billing solution



Lambton College – Sustainability House – Sarnia, Ontario

Overview: Facility for demonstrations of energy management and alternative energy's.
Problem: Lacking key tools for education demonstrations of effective energy management and alternative energy sources.
Solution: TX 2005
Benefits: Provides a clear measurement and demonstration of the Sustainability House solar panel's energy generation and performance for educational purposes. Shows the overall effect of alternative energy and energy management.



Sir Sanford Fleming College – Peterborough, Ontario

Overview:	Educational facility
Problem:	Energy management and educational potential.
Solution:	i-meter™ 636 with MODBUS output.
Benefits:	Communicated with building automation system. Provides the ability educate students on the potential energy management and sustainability.



Good Shepherd School – Port Perry, Ontario

Overview:	School with built in daycare facility
Problem:	Revenue billing application and metering solution.
Solution:	TX2005
Benefits:	Able to charge daycare for energy consumption



Other Schools

- University of California, Berkeley
- University of Illinois
- Harvard University
- Ryerson University

CORRECTIONAL FACILITIES

Joyceville Penitentiary – Kingston, Ontario

Overview:	Penitentiary
Problem:	Required metering for water, gas, and electric to segregate workshop and inmate living quarters.
Solution:	Intellimeter Legacy meters
Benefits:	Installed power line technology to meter energy consumption (water, electric and gas) and separate workshops and inmate living quarters for energy monitoring. Detected a water leak in a system with the water monitoring system.




Kingston Penitentiary – Kingston, Ontario

Overview:	Penitentiary for convicts
Problem:	Required metering for water, gas, and electric to segregate workshop and inmate living quarters.
Solution:	Intellimeter Legacy meters
Benefits:	Installed power line technology to meter energy consumption (water, electric and gas) and separate workshops and inmate living quarters for energy monitoring




OTHER


Olympic Podium – Vancouver, British Columbia

Overview:	Podium for the 2010 Olympic games	
Problem:	Energy cost allocation	
Solution:	TX2005	
Benefits:	Able to accurately monitor the energy costs for the podium	

Petite De Grat Wharf – Cape Breton, Nova Scotia

Overview:	Government Wharf	
Problem:	Required energy monitoring and billing abilities.	
Solution:	M3 Series Meters and RF technology	
Benefits:	The RF technology used in this government wharf marine application provided remote data collection for energy usage data on ships in port as well as their billing information	

SunEdison Solar – Toronto

Overview:	Solar panel	
Problem:	Monitor energy generated from solar panels.	
Solution:	Equipped and adapted metering provided by customer with Modbus solution	
Benefits:	Integrated metering and Modbus into their current system software for monitoring energy from the solar panels and the grid interaction.	

Utilities

Power generation, renewable energy, power distribution, sub metering, energy reselling and rebilling

The demands on local power grids continue to rise.

Just one pair of re-charging electric vehicles will consume as much electricity as two central air conditioners. Residents continue to fill their homes with a growing catalogue of electronic products. And power is being generated by a growing number of stakeholders who are using everything from traditional energy sources to renewable options such as wind farms or rooftop solar arrays.

Electric meters from Intellimeter generate highly accurate data for the strategies which help conserve energy, protect a utility's valuable assets, and build a sustainable system. And utilities can use the detailed street-level information to determine real-time energy needs, rather than relying on historic trends.

Whether you are metering residential units at a street level, installing revenue-grade meters in a multi-residential building, or integrating alternative energy sources, there is an innovative metering solution for you.

Features and benefits

- **Prepare for the future** – Collect the data needed for Time of Use billing or Smart Grid enhancements.
- **Choose your billing system** – Intellimeter's open platform will support the software of your choice. You are not locked into a proprietary system.
- **Track system performance** – Accurately measure voltage, current, power factor, frequency, power quality and Total Harmonic Distortion – online and in real time.
- **Install with ease** – Every meter is shipped with complete engineering drawings, connection diagrams and installation instructions. Our Current Transformers also have built-in safety features to protect installers.
- **Reduce maintenance costs** – Every meter is based on an electronic design, so there are no moving parts to wear out.

Industrial

Manufacturers, assembly lines, warehouses

Power quality can influence productivity in any industrial or manufacturing application. For example, new electronics and Variable Frequency Drives can increase an AC motor's operating temperatures and shorten equipment life. That's when efficiencies are lost and operating costs begin to rise.

Challenges like these don't need to be accepted as a cost of doing business.

Highly accurate electric meters from Intellimeter deliver the powerful information that can guide valuable business decisions. It can show businesses where to focus energy conservation efforts, identify when equipment needs to be serviced, and help reduce peak demand.


Whether you oversee an entire manufacturing process, assembly line or warehouse – or want to monitor a specific piece of equipment -- there is an innovative metering solution to make a difference to your bottom line.

Features and benefits


- **Make informed business decisions** – Use accurate data to allocate energy costs, recover revenue, set budgets, and deliver in-depth reports to management.
- **Spot wasted energy** – Identify specific systems that are consuming more power than others.
- **Track system performance** – Accurately measure voltage, current, power factor, frequency, power quality and Total Harmonic Distortion – online and in real time. And deliver the data using your communications protocol of choice.
- **Support global enterprises** – Intellimeter's meters have been installed across North America, support projects from Pakistan to Dubai, and are ready to serve your enterprises around the world.
- **Customize your solutions** – Turn to Intellimeter's engineers for an innovative metering solution, customized to meet your specific goals.
- **Choose your billing system** – Intellimeter's open platform will support the software of your choice. You are not locked into a proprietary system.
- **Install with ease** – Every meter is shipped with complete engineering drawings, connection diagrams and installation instructions. Our Current Transformers also have built-in safety features to protect installers.
- **Reduce maintenance costs** – Every meter is based on an electronic design, so there are no moving parts to wear out.
- **Enjoy a quick ROI** – Recover your investment in less than 12 months. You can even eliminate all of a meter's up-front costs through a No Capital Cost program.

DATA CENTRES

National Security Agency Utah Data Center - Utah, USA


Overview:	Data storage facility (Megaproject)	
Problem:	Required monitoring of load demand and energy usage; tied into BAS	
Solution:	i-meter636 with MODBUS	
Benefits:	Integrated meters and data logging through highly secure building automation system (BAS)	
Partner:	Siemens USA	

RBC Data Centre - Toronto, Canada


Overview:	RBC Data Centre	
Problem:	Required tenant and energy monitoring systems	
Solution:	62 WM5 meters with Modbus Monitoring System	
Benefits:	Combined revenue class tenant metering and Modbus based energy monitoring into one system for simplistic energy monitoring and analysis	
Engineer:	MULVEY&BANANI	
Property Management:	Cadillac Fairview	

FACTORIES


ShawFlex - Toronto, Canada

Overview:	ShawFlex a ShawCor Company - Specialty wire and cable manufacturer	
Problem:	Required energy monitoring for cost allocation	
Solution:	Intellimeter legacy PTracker system	
Benefits:	Energy cost information used for cost analysis and cost allocation leading to a reduction in consumption	


Omstead Foods - Wheatley, Ontario, Canada

Overview:	Food processing factory	
Problem:	Required energy monitoring for cost allocation	
Solution:	i-meter™ 636	
Benefits:	Energy cost information used for cost analysis and cost allocation leading to a reduction in consumption	

Russel Metals - Burlington, Ontario, Canada


Overview:	Steel manufacturing factory	
Problem:	Required energy monitoring for cost allocation	
Solution:	Intellimeter legacy meters	
Benefits:	Energy cost information used for cost analysis and cost allocation leading to a reduction in consumption	

New Dominion Industrial Complex - Hamilton, Ontario, Canada

Overview:	One Of Hamilton's largest industrial redevelopment sites - The Old Dominion Glass Factory (23 Chapple Street)	
Problem:	Retrofit installation for a central metering system for multiple existing buildings	
Solution:	TX2005 with RF Technologies	
Benefits:	Modular meter assemblies for ease of tenant location reassignment	


LABORATORIES

Canadian Standards Association (CSA) - Toronto, Canada


Overview:	National testing laboratory	
Problem:	Identify and control inefficiencies in energy usage	
Solution:	i-meter™ 636 with PTLs	
Benefits:	Monitor energy usage for new equipment in laboratory as well as HVAC systems; ability to control energy costs, integrated meters with data logging	

WAREHOUSE

IBM Warehouse - Markham, Ontario, Canada


Overview:	IBM Warehouse at IBM Canada Headquarters	
Problem:	Cost allocation for leasing space within warehouse	
Solution:	i-meter™ 636 and TX2005	
Benefits:	Able to accurately monitor energy consumption in warehouse and allocate energy costs for tenants	


Royal Group Warehouse

Overview:	Warehouse	
Problem:	Always changing requiring variety of metering capabilities for water, gas and electric.	
Solution:	TX2005 with RF technology	
Benefits:	Modular meter assemblies for ease of location and reassignment.	

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