

## Major northwest tower development benefits from Siemens embedded metering

### Apartments and condos

#### Power Distribution Solutions

##### Challenge

A design and engineering firm was tasked with building a large condo building in downtown Seattle, Washington that provided very little room for electrical equipment. So, how to get the required electrical equipment on each floor and tenant metering in the room the size of a closet?

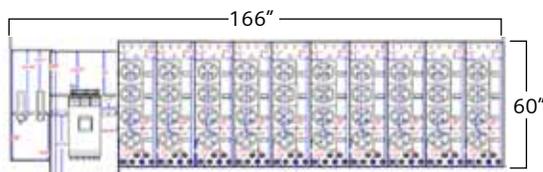
In the world of metropolitan condominium developments the cost per square foot can range from \$700 to \$1,000. In designing the building every square foot not used for a tenant, is money lost!

When looking at the traditional meter combo layouts, the designers ran into almost 14 feet of wall space being needed to provide traditional socket metering with the required electrical distribution equipment. This was an unacceptable approach for each floor when there were for 42 floors.

##### Solution

The Siemens engineers worked with the Siemens Grand Prairie, Texas manufacturing plant to design a totally new embedded metering solution that utilizes the IPS Switchboard design.

This design provided the compact electrical equipment and the tenant metering built right into the switchboard. Siemens worked with university engineers and consultants to define what the existing Siemens WinPM.Net system could do to help them with the solution.



Old style meter combo line up

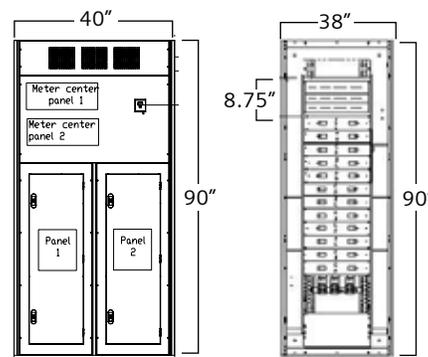
The unique embedded metering design utilized small metering grade CT's mounted on a rail that was attached the panel's inter rail structure. The metering compartments or "brains" were mounted in the top half of the IPS Switchgear, providing a complete self contained metering package.

With this design, all the contractor needed to do was install one communications wire daisy-chained to each IPS Switchboard. That's it! No installing 1,000's of CT wires, no running 100's of communications wires, no terminating all those CT's and all the setup, configuration was done by the Siemens OEM project engineers.

##### Results

The use of the embedded metering solution save the owners thousands of dollars by using less space. Also, Siemens OEM partner for the metering equipment provided the tenant billing service for the property management company, thus allowing them to out-source a task that could be very time consuming.

The contractor mentioned to the Siemens team that they were very impressed with the solution and would recommend this to any design engineer or owner!



New space saving embedded metering panels



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