

#### Smart Meters Can Be Hacked: Security Experts | NBC Dallas-Fort Worth

"We anticipate there will be about \$200 to \$300 a year savings just from the knowledge that consumers gain from these meters," Peters said.

Instead of waiting for a monthly power bill to arrive to track your usage, a wireless device -- sold separately -- could read the smart meter constantly.

Future rates may vary by time of day to reflect peak demand periods and future appliances will communicate with the digital meter.

"They will also be able to decide, 'When's the best time to run the air conditioner? When's the best time to run the washer or dryer?'" Peters said.

Smart meters offer several advantages for power companies. Constant monitoring allows more accurate power generation and distribution.

"Every 15 minutes, Oncor will be reading a meter," Peters said. "In the past, we've done once a month."

And the meters approved for Texas give companies the ability to remotely connect and disconnect customers.

But that also poses a security concern, experts say. If the company can remotely disconnect service through a smart meter, a hacker could do so, too.

"That person drives through the alley way of a neighborhood, sends that command to every meter and disconnects all those residents from power," Thornton said.

Or the sabotage could occur from the power company's computer.

"They can get in the server, and then it's the broadcast effect. They can go to multiple meters and do the same thing," Nair said.

Usage information that would be stored in the meter could also permit a hacker to see inside a home. Data on the times of day when less electricity is used could offer a burglar better knowledge about when to stage a break-in.

"You'll be able to measure a lot more than just overall power usage," Thornton said.

Oncor said it is installing multiple layers of security to guard against all of these threats.

"We are designing a comprehensive system that has both human and technological protection for the consumer," Peters said. "And the interaction between the meter and the house is secure, so there's no opportunity for anyone else to observe your data."

But the meters are already being installed, and experts argue utilities have not perfected protection yet.

"I would say we are in the early stages of incorporating serious security measures for these things," Nair said.

The researchers at SMU and other institutions are working to find weak spots in hopes companies will pay them to guard against those threats.

"Just like the bank would do, if you have better security, you can attract more customers," Nair said.

More Information:

- Oncor offers additional information on the new meters and the installation schedule on its Web site. Click here to read more.
- A conference was recently held in Las Vegas in on the security issues. Click here to read more.
- SMU HACNet 's Web site can be found at: http://hacnet.smu.edu/

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**1** <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>5</sup>



Carol Peters | Suku Nair | ONCOR International Ltd.



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# 4 COMMENTS

# MIKEBURTENSHAW

None of our information is safe. 7:45 PM, 9.20.09

#### ANONYMOUS

I am glad I am not an ONCOR customer, then... :(

Mr. Burtenshaw, you are totally right on ... :(

8:49 PM, 9.20.09

#### ANONYMOUS

Doesn't matter if your an ONCOR customer or not. ONCOR maintains the lines so everyone is getting the new meters and paying for them and the ones they bought that don't work. Isn't regulation nice.

9:57 PM, 9.20.09

#### RICHARD

Well, of course it can be hacked. It's a networked computer system.

10:17 PM, 9.20.09

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