

**APPROVED MINUTES - SPECIAL BOARD MEETING
PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF OAK PARK
HELD ON THURSDAY, OCTOBER 11, 2012 AT 8:00 P.M.
IN THE COUNCIL CHAMBERS OF OAK PARK VILLAGE HALL**

I. CALL TO ORDER

President Pope called the meeting to order at 8:16 p.m.

II. ROLL CALL

PRESENT: Trustees Brewer, Hedges, Salzman and Tucker; President Pope
ABSENT: Trustees Johnson and Lueck

III. AGENDA APPROVAL

It was moved and seconded to approve the agenda for the meeting. A voice vote was taken and the agenda was approved as presented.

IV. PUBLIC COMMENT

There was no public comment.

**V. PRESENTATION OF AN OAK PARK RESIDENTIAL SMART COMMUNITIES PROJECT
AND CONSIDERATION OF A MEMORANDUM OF UNDERSTANDING
WITH THE ILLINOIS SMART COMMUNITIES COALITION
AND THE KOREAN SMART GRID INSTITUTE**

Sustainability Manager K.C. Poulos gave an overview of the project, a collaborative effort between technology companies from Korea and Illinois, and gave backgrounds of each of the scheduled speakers.

Mike McMahon, Vice-President of Smart Grid Technology at Com Ed, spoke about Com Ed's plans for smart grid, specifically the test bed. He discussed the aging infrastructure and solutions made possible by smart grid. Mr. McMahon also gave instructions regarding how to apply for participation in the test bed.

Andrew Barbeau, President of the Institute for Sustainable Energy Development, gave a history of how Oak Park entered into partnership with the Korean entities. Oak Park was identified as a favored area for doing these projects, particularly because of its population and the existing smart grid development and test bed that was being set up in the Com Ed region. He spoke about the potential cost savings for customers.

Ms. Poulos stated that Oak Park received 20,000 smart meters installed at residences and businesses as well as the utility's first smart substation. These installations are referred to as "on ramp" or "access points" for additional smart grid technologies. She discussed some of the improvements homeowners have already received from the use of smart meters, such as increased energy efficiency and fewer or shorter power outages.

Mr. Barbeau spoke about the technology implementation. Phase one includes a new advanced metering infrastructure (AMI) demonstration similar to, but with more enhancements than the one that Com Ed has completed. The second phase will include installation of solar panels and battery backup for 200 homes in the region around the smart substation. These will be transmitted and controlled by a network operating center (NOC), which is essentially a server that allows these homes to participate in demand response activities and also to provide enhanced information to Village Hall for emergency issues, outage incidents and other information. The third phase includes expansion of solar panels and battery backup as well as a commercial project.

Bob Greenlee, Legal Counsel from the Illinois Science and Technology Coalition, discussed the Memorandum of Understanding for the Smart City USA Project. He gave details of each phase as well as projected timelines. Sources of funding were discussed. President Pope noted that the value of these systems that would be implemented in the selected residents' homes is approximately \$20,000 to \$30,000 each.

Trustee Hedges asked how the test residences will be chosen. Ms. Poulos stated that each house must have a south-facing roof space that could accommodate 10 to 20 solar panels. There also cannot be any tree canopy in the way of any part of the roof at any time of the year. She added that if there is a large amount of interest, a lottery system will be used.

Trustee Hedges expressed concern regarding operational responsibilities at Village Hall related to the NOC and noted that if power goes out during non-working hours, there is no way of knowing that this must be reported. President Pope suggested that perhaps there would be an automated notification structure that communicates directly with Com Ed.

Trustee Salzman indicated that the funding noted under Phase 2 of the project requires that 50% be contributed by the Korean entities and 50% by Illinois entities. He asked if those sources have been identified. Ms. Poulos stated that she has spoken with the Illinois Department of Commerce and Economic Opportunity and continues to identify other sources as well.

Trustee Salzman asked for more details regarding the demand response process. Mr. Greenlee explained that two or three times during the peak demand summer months PJM, the organization that coordinates the movement of electricity, will try to avoid the cost of bringing more plants online and pass the savings back to those who participated in the process by reducing energy consumption and switching to stored solar energy. He also explained how and when notification to customers will occur.

Bruce Hamilton, President of Smart Grid Network, discussed his background. His company's headquarters is located on the Illinois Institute of Technology campus. It is also the location of the first working micro grid, which includes wind, solar, energy storage, energy efficiency, demand response, real-time information, micro grid monitoring and electric vehicle charging. The micro grid can also operate independently from the grid. He gave a history of how his firm helped forge the collaborative and spoke about other members on their team.

Ms. Poulos summarized the presentation.

Trustee Tucker asked if all of the equipment to be installed on residents' homes is UL-approved. Mr. McMahon stated that they are not, as Underwriters Laboratories is a consumer

products organization. Commercial and industrial equipment, such as smart meters, are tested to ANSI standards, an industrial testing protocol. He added that everything inside the house, such as in-home devices or monitors, transmitters, etc., will most likely be UL-certified, as these are consumer products.

President Pope noted that Oak Park was selected from 288 locations around the world to do this project. He thanked all who are involved for their work in giving the Village this opportunity.

ADJOURN

It was moved and seconded to adjourn. A voice vote was taken and the motion was approved. The meeting adjourned at 10:11 P.M. Thursday, October 11, 2012.

SUBMITTED AND RECORDED IN THE OFFICE OF:

By: MaryAnn Schoenneman
Interim Deputy Village Clerk

Teresa Powell, Village Clerk