

Title (en)  
MAXIMIZING ENERGY SAVINGS BY UTILIZING CONSERVATION VOLTAGE REDUCTION WITH ADAPTIVE VOLTAGE CONTROL AND PEAK DEMAND REDUCTION AT POINT OF USE

Title (de)  
MAXIMIERUNG DER ENERGIEEINSPARUNG DURCH NUTZUNG DER ERHALTUNGSSPANNUNGSREDUKTION MIT ADAPTIVER SPANNUNGSREGELUNG UND REDUZIERUNG DES SPITZENBEDARFS AN EINER NUTZUNGSSTELLE

Title (fr)  
MAXIMISATION D'ÉCONOMIES D'ÉNERGIE PAR UTILISATION D'UNE RÉDUCTION DE TENSION DE CONSERVATION À L'AIDE D'UNE COMMANDE DE TENSION ADAPTATIVE ET D'UNE RÉDUCTION DE LA DEMANDE DE POINTE AU POINT D'UTILISATION

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Application  
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Abstract (en)  
[origin: WO2018073719A1] In the present legacy electrical power generation and distribution system, the power quality delivered to end consumers is being degraded by a number of disruptive technologies and legislative impacts; especially with the rapidly increasing myriad of privately owned and operated domestic and commercial distributed energy generation (DEG) devices connected at any point across a low voltage (LV) distribution network. The present invention bypasses this increasing critical DEG problem by offering a solution comprising an energy processing unit (EPU) that is installed at the customer's electrical power point of use (POU). And because of the controlled tightly voltage regulated output of the EPU, significant energy savings can be achieved through dynamic voltage control, utilizing the CVR effect, reduced reactive power demand, and reduced or eliminated peak demand billings.

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