



São Paulo - Brazil - May - 22<sup>nd</sup> to 24<sup>th</sup> - 2013

# Acc4<sup>th</sup>mic

## INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“INTEGRATING CLEANER PRODUCTION INTO SUSTAINABILITY STRATEGIES”

### **Integrated Energy por Management of Buildings Using Computer Network Protocol SNMP for the Integration of Clean Production and Sustainability**

SANTOS, F. S.<sup>a,b\*</sup> CAGNON, J. A.<sup>b</sup> SILVA, E. C. G.<sup>a,b</sup>

*a. IFSP Instituto Federal de Ciência, Educação e Tecnologia de São Paulo – Birigui SP.*

*b. Universidade Estadual Paulista “Julio de Mesquita Filho” Faculdade de Ciência Agrônômicas – Botucatu SP.*

*\*fsergio.santos@gmail.com*

---

#### **Abstract**

Energy consumption is a constant concern for the generation and consumer, and to reconcile with cost productivity is always a task that requires long periods of study to learn how to use it rationally. It's pretty a consensus that the survival of the planet requires profound changes in industrial society, changing patterns of technological production, consumption habits and even cultural roots. It is also consensus that the transformation of the construction supply chain is crucial in this process. Sustainability is now the main driver of technological innovation in all sectors, including construction. Companies and professionals that position themselves at the forefront will get major benefits. Sustainability is now a key point in the development concept. Sustainable development ensures that present needs are found without, however, compromising the ability of future generations to satisfy their needs. This term is closely linked to two concepts: energy and the environment. So the better management of energy resources with consumer demand, the better their productivity. In order to collaborate with the process of energy management, the technology employed in this context can use the SNMP protocol, developed for equipment management of computer networks, switches, routers, servers and workstations. To this end, they will use the same infrastructure of a network of computers: in place of traditional equipment, enter the motors, generators, lamps.

**Keywords:** *Home automation, Energy, Sustainability, Management, SNMP protocol.*

---

---

“INTEGRATING CLEANER PRODUCTION INTO SUSTAINABILITY STRATEGIES”

São Paulo – Brazil – May 22<sup>nd</sup> to 24<sup>th</sup> - 2013