cebyc®
Control Energy by Communication

Project Profile

MOELVEN®

About Moelven
People need quality rooms in which to live, work and enjoy their leisure time. Quality rooms mean a pleasant environment, which is practical, contributes to good health and life, is easy on the eye and inspiring. All of us use rooms and our perception of what constitutes a quality room varies and alters over time as our needs change. Moelven's task is to create quality rooms no matter what they are used for today or what they will be used for tomorrow.

The company is organized into three divisions: Timber, Wood and Building Systems. The group consists of 45 operational units in Norway, Sweden and Denmark. As of the beginning of 2009 there are 3,285 employees, of which 1,756 are based in Norway, 1,492 in Sweden, 27 in Denmark and 10 in other countries

Moelven has chosen Cebyc and Energinet for their energy- and waste management work in hard competition from Scandinavian competitors. The plan is that 21 of 33 factories shall be on the system during 2010.

It will be implemented energy efficiency measures and these measures will provide an annual energy result in approx. 70 GWh total of Moelven Norwegian companies.
In the first phase will be an energy monitoring system (EMS) is established.

With energy monitoring, we mean a systematic and periodic control of energy supply and energy, where energy use is compared with production volumes and any external factors such as the outdoor temperature. The system will most be adapted Moelven established reporting procedures.
Energy Tracking system to show how energy is used so that it can give us indications of savings potentials and document the savings generated by actions. A good energy

monitoring system not only takes into account the energy consumption in kWh, but also shows costs in Nkr (kroner).

Energy consumption

Moelven's products are primarily based on pine and spruce harvested from extensive forests in Sweden and Norway. When manufacturing sawn wood, the drying process is the step that is the most energy intensive. An average Group sawmill uses more than 75% of company-produced and purchased heat energy to heat offices and to dry sawn wood. Most of the heat energy needed for drying and heating is generated locally at Group plants by burning bark and chippings.

The production of wood-based building materials is less energy intensive than the production of building products using other materials.

Moelven´s plants comply with applicable concession terms and requirements with regard to emissions. The Group's units used approximately 250,000 solid cubic metres of biomass and 990, 000 litres of oil for energy production in 2008.

In addition to the Group's own heat production which totals approximately 450 GWh, Moelven purchases approximately 210 GWh in the form of electrical power to run plants and equipment.

Moelven is involved in technological as well as market developments in the bioenergy sector in both Norway and Sweden. Moelven is currently the preferred supplier of energy raw materials to industrial customers processing bioenergy products. Many of the Moelven plants in Norway and Sweden also supply bioenergy directly to external customers, primarily as district heating, but also as process steam to industries.

Energy savings set to increase

In 2007, Moelven launched a high-priority project aimed at achieving more effective use of energy resources and reducing energy consumption. The project, which is supported by the Norwegian government, covers all activities in all of the Norwegian business units. Approximately NOK 70 million will be invested in the newest available energy saving technology. An example of this is that we reduce internal consumption of bio fuels, thereby enabling a higher sale to customers.

The project means that Moelven's negative impact on the environment can be reduced even further and the Group's competitiveness increased.

Much of the work has already been done in Moelven's Swedish business units. Sweden's energy policy has encouraged industries to invest in environmentally sound projects for a number of years, which has generated greater profitability from the production of energy raw materials.

Energinet.no is the first energy management system which is in accordance with the DIN EN16001energy management standard.