World’s first electric hybrid forest harvester is made in Finland

FinnMetko 2012 forestry fair begun a new era in the fuel efficiency of forest harvesters when a Finnish manufacturer ProSilva Oyj presented an electric hybrid forest harvester, ProSilva 910EH.

The first machine was handed to the customer, Jari Päivärinta CEO of JP Konetyö Oyj on Friday the 31st of August.

An electric hybrid forest harvester shows a very effective reduction in exhaust emissions and fuel consumption by downsizing the 155 Kw 6-cylinder engine to a 60 Kw 4-cylinder without any loss of harvesting power. ProSilva 910EH is a so-called parallel hybrid machine. In other words the electric generator/motor and energy reservoirs are being used to cover the very high peak power demands of a forest harvester thus allowing the smaller engine to work continuously at optimal load level. Elforest Ab who has a long experience in building electric hybrid forwarders and vehicles has delivered the electric hybrid powerpac.

ProSilva 910EH is a medium sized 4-wheeled machine suitable for thinning, final felling and energy wood harvesting.

The machine is also prepared for installation of ProSilva’s track units especially developed for harvesting on soft or sensitive ground thus allowing the machine to work year round. All machines are built according customer order and can be equipped for work from energy wood harvesting to final felling. Different harvester heads are installed to suit customer’s needs and cranes delivered by Kesla Oyj are chosen accordingly.

In average about 40% of ProSilva’s production is exported. Currently most important export market is Latin America and also in FinnMetko a noticeable sales agreement for forest harvesters to Chile was signed.

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A forest machine manufacturing company ProSilva Oyj from Ruovesi is privately owned. The company has 15 employees and the owners have experience in forestry business for 30 years. In total almost 200 forest machines have been made.