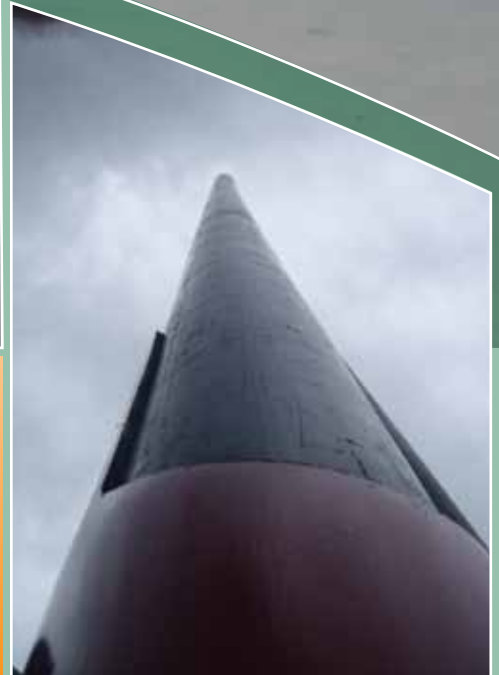




# Eco-Pole

The Environmentally-Friendly Power Pole



Eco-Pole (Miljøstolpen), the environmentally-friendly power pole, is ready for market.

The Advantages of Eco-Pole:

1. Meets Norwegian statutory requirements.
2. Non-toxic. No creosote or hazardous waste.
3. Lightweight, with about 40 percent wood.
4. Woodpecker-damage secure. Prevents major damage and danger due to weakened poles.
5. Long life; does not rot.
6. Standardized dimensions and fasteners.
7. Prevents deforestation.
8. Can be supplied in many lengths and dimensions.
9. No drilling required.
10. Not energized.
11. UV resistant.



## Guiding system

The Eco-Pole features a completely new mounting/assembly system.

The guiding system is designed for easy installation and replacement by hand, crane, or especially by helicopter, as tested by one of Norway's most experienced helicopter pilots.

This guiding system will revolutionize the installation of poles in the future as the mounts can be set up in advance. Installation time will be significantly shorter and costs lowered.

When the pole is in place, it is easy to attach the pole permanently, using the guiding pipe. Equipment can be attached to the top of the pole before installation. The helicopter can finish the job in one operation, making it more cost-effective.

The Eco-Pole's cylindrical shape makes installation much easier, less costly, and safer.





## “The Magic Hat”



The Magic Hat is set on top of the Eco-Pole by the technician or with a rod from the ground.

Large or small objects are easily hoisted to the top of the pole with this tool, by hand or with a lift.

The Magic Hat weighs approx. two kg and is foolproof; it cannot fall down or jam. A safety line can go through this hat.

## The Aluminum Lift

The lift is six meters long, weighs about thirty kg and can be divided into three parts of two meters each, making it easy to transport and quick to assemble.

It attaches to the guiding system with a pallet strap and uses steel wire if the pole is heavy. The aluminum lift is easily operated by hand with its own hoist apparatus.

The device can also be attached to a clamp on a pole, and can then hoist up and down heavy weights, such as insulators, traverse rods, etc, using the Magic Hat.



## Replacement and Maintenance



There is an important relationship between maintenance and replacement. Good maintenance is essential for the high supply reliability we have in Norway. But, powerlines cannot be prevented from aging. Sooner or later they must be replaced, as the component life is limited. So maintenance and replacement of powerlines is done continuously. The greater workload due to an aging network and increased power consumption provides a future challenge.



To maintain security of supply and to avoid problems with power balance, utility producers set aside significant funds each year for effective management, operations, maintenance, modernization and expansion of facilities.

Transmission networks are expensive. The average cost per kWh transported decreases with increasing use of the network until the capacity nears overload. This means that it is not profitable for communities to build parallel transmission lines if there is sufficient capacity in existing ones.

Source: Energy Norway

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