

ALPUA



AKTIIVINEN • SISUKAS • YHTEISÖLLINEN

Active

Persistent

Communal

Example ALPUA

Contryside village of 400 inhabitants in Northern
Ostrobothnia



- Two old school buildings, now used for private kindergarten and other business purposes
- Total area about 700 m²
- Heat demand 200.000 kWh
- Electricity consumption 32.000 – 50.000 kWh
- Oil heating has been replaced by CHP unit providing 100 kW heat and 40 kW electricity
 - Partly funded by EU + national and private sources
 - Wood chip consumption 700-800 m³
 - Self-contained for heat and electricity, excess electricity sold out
 - Wood (chips) from local forest owners by local entrepreneur
 - VAT legislation must be taking into account in building and operation
 - High investment cost
 - Need for maintenance
 - Another suitable solution could be ground heat pumps + solar panels for electricity