

**S1-07 “Sørøyetget’ A concept of distributed power generation combined with fish farming in the Arctic part of Norway”**

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Abstract

Sørøya is a dynamic coastal community in Northern Norway with fisheries and aquaculture as the main industries. A major challenge is the vulnerable electric supply infrastructure to this community and an increasing shortage of electric power and effect in Norway. The concept of “Sørøyetget” utilize the local hydro electric plants and added LNG driven co-generation modules to produce electric power and heat. The heat will be utilized in a new fish hatchery. More than 40 similar locations are identified along the coast of Norway.