



# SWEET Call 1-2020: EDGE

## Deliverable report

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<b>Deliverable name</b>	Muttsee Business Plan
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## Summary

This deliverable is related to a non-public business plan of solar renewable energy production plan for the Muttsee reservoir dam. The corresponding Innosuisse project is up and running and all technical details are available from the corresponding proposal and plan. The corresponding business plan has been developed between Axpo, IWB and Denner, the business partners signed a power purchase agreement for the project. The part that concerns SWEET-EDGE research has been formulated as the financial part of the Innosuisse project.



## **1 Introduction**

The leading idea of the EDGE project is to promote de-centralized installations of renewable energy sources such that specific landscape characteristics (Alps, Midlands, Cities) are optimally respected and such that local to regional demand is best served. Generally, in mountain regions, more energy is produced than consumed. Also in a fully renewable Switzerland, models predict that energy needs to be transferred from mountains to cities. In this context, Alpine PV is very valuable for winter electricity production. While a current focus is on large free-standing installations, installations on existing infrastructure are more compatible with aspects of landscape protection and acceptance. Therefore, the Muttsee installation is seen to be an important test-case of benefitting from existing carrying and electric infrastructure.

## **2 Deliverable content**

The Financial Plan of Muttsee has two aspects. First, the plan behind the installation itself, which is not public and has as a core element the power purchase agreement between ISW, Denner and Axpo. This is in place and has allowed the Muttsee installation and secures its operation. The second part is with respect to research and analysis done in the accompanying Innosuisse project. There, fundamentally the finances for the research part, executed by a PhD student (Yaël Frischholz), have been proposed and approved. The financial plan is consistent with the technical plan, which is subject of a separate deliverable.

## **3 Conclusion**

The business plan "Muttsee" has been formulated i) for the installation as an infrastructure business plan between Axpo, IWB and Denner and (for the research) as a separate Innosuisse project but within the framework of SWEET-EDGE. With the installation of the Muttsee high-Alpine plant, the project has started successfully and allows to systematically investigate the behaviour of a real production plant in the high-Alpine environment. It will give valuable insight into potential pitfalls of such installations and a sound basis for aspects to be considered in similar such installations in future.

## **4 References**

## **5 Appendix**