

PILOT SITE DESIGN

# SCHEINENDSVEN

VOIRSCHOT, THE NETHERLANDS



The site is situated in between nature (Kampina) and agriculture.

It is a constructed wetland consisting of 3 parallel ditches with inlets and a single outlet to the small waterway the Banisloop (A water BS100).

Water can be stored in the constructed wetland however in dry summers such as 2018 and 2019 water supply will be limited.

**Size:** 7.700 m<sup>2</sup>

**Peat soil:** sandy soil (Gooreerdgronden and Veldpotzool)

**Crop type:** Reed, cattail (small and large), alder, willow , yellow iris

**Water level:** fluctuating (storage possible)

**Climate:** Temperate

**Rainfall:** periods of drought and sometimes heavy rain

**Target CO<sub>2</sub> reduction:**  $0,77 \cdot 20 = 1,5$  ton CO<sub>2</sub>-eq /year

Note 20 ton/ha cattail (Rulebook Greenddeal National CO2 markt zie <https://nationaleco2markt.nl/wp-content/uploads/2018/12/GDNK-Groen-Veenweide-001-1.pdf>)





# SCHEIENDSVEN

## CHALLENGES

## CLIMATE CHANGE

Summers of 2018 and 2019 were very dry.

## NATURE & BIODIVERSITY

Near Nature 2000 and in attention zone wet nature reserve making water quality and biodiversity priorities .

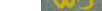
## INTERACTION WITH AGRICULTURE

In between nature and agriculture – some nature inclusive agriculture - some more intensive. Improving water quality especially by removing nutrients (N).

## GOALS

- Learning how to grow and harvest wet crops
- Pilot for research with students and start-ups

## BUSINESS MODELS

- Cattail and Reeds: furniture, insulation, packaging or bio-composites.
  - To be identified for other crops
  - Water quality improvement
- 



## PILOT SITE TIME LINE

2018	Identifying pilot site
2019	Identifying different crops Contact with local educational institutes Student assignments Technacium Boxtel
2020	Re-plant crops & additional crops Contact with regional farmers and start-ups Starting student Assignment HAS Biodiversity monitoring by students HAS Harvest

