

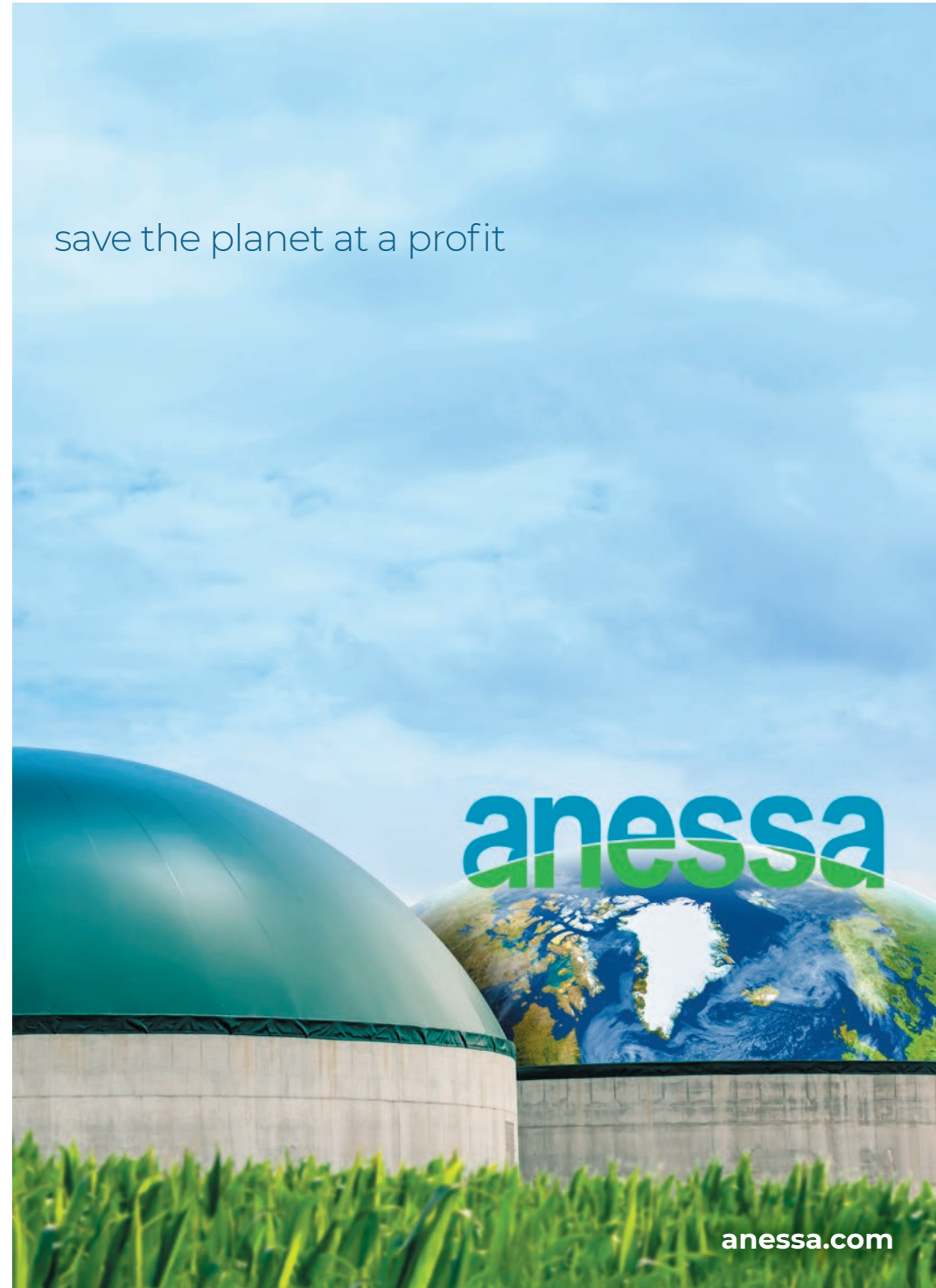
Anaerobic Digestion Feasibility
Assessment & Operation Software

save the planet at a profit

anessa
BIOGAS SOFTWARE

   / **anessabiogas**
info@anessa.com
1-844-4-anessa • 1-506-457-9320
anessa.com

ANESSA
10 KNOWLEDGE PARK DRIVE, UNIT 130,
FREDERICTON, NB, CANADA, E3C 2M7

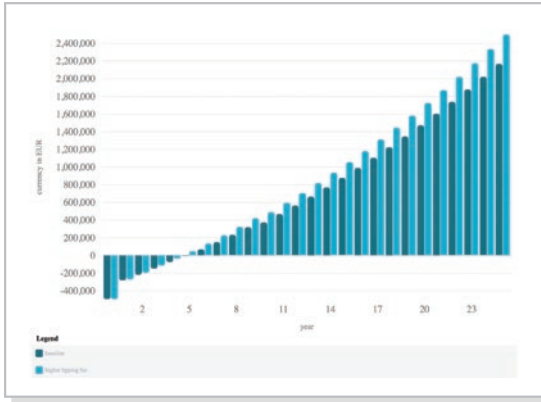


anessa

anessa.com

Make better decisions faster.

Accurately assess the feasibility of potential biogas projects using automated modeling software.



- ✔ reliable mass and energy balance modeling for the project
- ✔ financial insights such as cash flow, profit & loss, payback period
- ✔ greenhouse gas emissions and tariffs
- ✔ sensitivity analysis and report generation
- ✔ enhanced decision-making power

anessa AD-A

Modeling technologies in anessa AD-A take feasibility assessments to new places that manual assessments can't go, and in a much shorter time frame.

Find the optimal conditions of your plant before committing time and resources to reduce the costly guesswork of trial and error experimentation.

- ✔ simulate the impact of potential feedstock changes
- ✔ plan for seasonality changes
- ✔ increase energy output
- ✔ maximize revenue

baseline feedstock

months* tonnes*

	month 1	month 2	month 3	month 4	month 5	month 6	month 7	month 8	month 9	month 10	avg
date	1/1/2019	3/1/2019	5/1/2019	7/1/2019	9/1/2019	11/1/2019	1/1/2020	3/1/2020	5/1/2020	7/1/2020	11/1/2020
hay	1,34.72	1,952.78	2,084.72	1,980.00	2,345.83	2,158.33	2,829.17	2,209.17	2,377.78	2,078.33	1,91
primary sludge	408.89	700.00	808.89	773.20	937.78	842.00	804.44	804.44	950.86	822.22	72
total	1,543.61	2,752.78	2,893.61	2,753.20	3,283.61	2,998.33	2,833.61	2,833.61	3,333.33	2,898.61	2.65

save table to report save CSV file to pc

anessa AD-O

Rather than guessing how potential changes to feedstock can impact the output from the plant, AD-O will generate recipes after performing simulations. It takes the guesswork out of substrate decision-making.

Knowing the impact on finances and performance before you commit will save you time and money.

Core Technologies

anessa's software tools draw on two core technologies developed by our team of biogas experts and computer scientists.

anessa SE

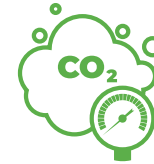
anessa's unique Simulation Engine generates in-depth insights using four integrated models:



Feedstock Model



Anaerobic Digestion Operational Model



Greenhouse Gas Emission Model



Financial Assessment Model

anessa AI

anessa's Artificial Intelligence technology uses algorithms to search through all possible feedstock combinations to find the optimal setup for each plant.

Unlike the static nature of spreadsheets, our AI models are continually refined to improve precision. The ever-growing database of real plant data provides accurate predictions for changing conditions.



Genetic Algorithms



Neural Networks

anessa.com

Save the planet at a profit.