



KEY CASE STUDY

ADDING VALUE TO EUCALYPTUS BREEDING WITH GEMVIEW SOFTWARE

GEMNETICS: GEMVIEW

Established in 2001 seedEnergy engage in production and delivery of genetically improved seeds for plantation forests, internationally. Over the past decade SeedEnergy have been working on eucalyptus breeding programs worldwide, managing large data sets and collaborating with international partners on multiple species to improve profitability of plantations.

Powered by AbacusBio, Gemnetics has been working alongside clients worldwide to manage breeding data more efficiently, to enhance gains. Gemview, created by Gemnetics is an online cloud-based platform that allows breeders anywhere in the world to utilise multiple years of data more effectively by having all the breeding program data, pedigrees, breeding values, and supporting information together at the touch of a finger. The importance of this product highlighted by Gemnetics Managing Director Sue Carson "effective utilisation of data results in better breeding decisions and increases the genetic performance of crops."

SeedEnergy is a valued user of gemview, with the company's Tree Improvement Coordinator Steven Smith praising the benefits gemview has delivered to seedEnergy. Initially, a system was required to handle the enormous data sets more easily. SeedEnergy chose to embrace gemview as part of their data strategy, using the software as a repository for trial data with validation. Since then, seedEnergy has been using Gemview to manage their testing programmes, record pedigrees, and extract data in the format necessary to carry out other research such as genetic evaluations.

"The team at Gemnetics has been instrumental in organising and importing data into Gemview, and providing input about how to organise information and store pedigrees" tributes Steven. The ease and functionality were condemned alongside the ability to achieve breeding goals. "Its flexibility over our data requirements is definitely a bonus, along with the ease of access, user-friendly interface, and responsive customer service."

- There are over 700 species of eucalyptus in Australia

- Gemview can store any type of field trial or lab based data including SNP and forestry permanent sample plots.