

# Irrigation & Water Resource Management

## Irrigation Requirements

Irrigation requirements to deliver cost effective plant growth is the balance between water supply reliability, climate demands, soils and scheme capacity costs. Water sources all have different levels of reliability and capacity, therefore matching supply reliability, storage capacity and plant seasonal requirements is the key to an effective system.

LEI can support your needs from concept development, funding application assistance, resource consenting, system requirements, engineering management, nutrient loss assessments and on-farm environmental plan preparation and implementation. We look for opportunities to reduce cost and increase profitability; this includes power generation assessments, gravity supplies and pump system networks.

## How can Lowe Environmental Impact (LEI) help you?

LEI can procure your resource consents, manage the design and detail the operation of your irrigation scheme. Our irrigation expertise includes:

- **Water Requirements** – We can evaluate if water is the only limiting factor, determine if eliminating moisture stress entirely is economically viable, and, as more connections are added to irrigation schemes, consider varying demand to optimise network capacity or expand supply areas.
- **Nutrient Management** – Nutrient leaching losses can limit development. Our expertise in nutrient management and on-farm or catchment-level water quality mitigation measures will help enable responsible development.
- **Regulatory Requirements** – Every irrigation consent requires an assessment balancing environmental impacts and user benefits, with increasing Regional Council focus on water quality.
- **Scheme Development** – Developing a community irrigation scheme requires early feasibility assessment, coordinated planning across engineering, consent, land access and finance, and a deliberate, stage approach to maintain momentum and manage risk.

## Who is Lowe Environmental Impact (LEI)?

Lowe Environmental Impact (LEI) are specialists in providing irrigation and water management advice, from farm-scale to large-scale community schemes.

Our in-depth knowledge of irrigation and its environmental effects enables LEI to support your needs and provide tailored solutions for any project.