



# Shoalhaven Scheme



Bendeela Pondage and Bendeela Pumping and Power Station

## What is the Shoalhaven Scheme?

Eraring Energy operates two pumped storage hydro power stations, known as the Shoalhaven Scheme, which are located in the Southern Highlands of NSW. The Shoalhaven Scheme consists of the Kangaroo Valley and Bendeela Pumping and Power Stations, and the Fitzroy Falls Reservoir, Bendeela Pondage and Lake Yarrunga (see schematic).

The Shoalhaven Scheme has a total generation capacity of 240 megawatts (MW), with two 80 MW pump/turbine units at Kangaroo Valley Pumping and Power Station and two 40 MW units at Bendeela Power and Pumping Station.

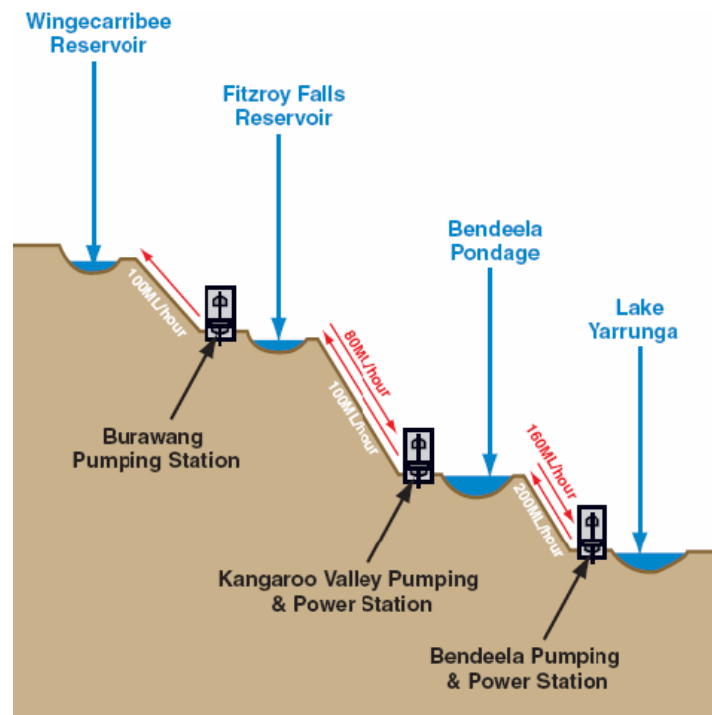
## Who is responsible for the Scheme?

The Scheme is jointly owned by Eraring Energy and the Sydney Catchment Authority (SCA). The SCA maintains the dams, pipelines, canals, and lands associated with the scheme, while Eraring Energy is responsible for the operation and maintenance of the generating components of the facilities.

## How does the Scheme operate?

The Shoalhaven Scheme operates in a similar manner to other hydro power stations, however, rather than generate power from water released from a dam the Scheme pumps water from water storages up to holding reservoirs during periods of off-peak electricity demand. During times of peak electricity demand, the water is released through the power stations to produce electricity.

## Pumped Storage Hydro Power



The Shoalhaven Scheme operates under a Water Management Licence that defines Eraring Energy's water access rights and obligations in relation to the interchange of water between Lake Yarrunga and Fitzroy Falls.

## Why used pumped storage?

Pumped storage is an economical source of power generation during times of high demand, and complements the base load power generated by coal-fired plants.



Tallowa Dam, which forms Lake Yarrunga

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