

**ENVIRONMENTALLY SUSTAINABLE
HYDRO POWER LOCATED IN
SOUTH EAST QUEENSLAND**

Wivenhoe Small Hydro



> About the project

Wivenhoe Small Hydro is located beneath one of Wivenhoe Dam's five spillway slots and operates 24 hours a day, seven days a week. This clean, green power generation facility captures water released for other primary purposes, without commanding dedicated water releases. The water passes through a butterfly-type turbine inlet valve and into a 4.3 megawatt (MW) Francis turbine.

It produces electricity at 6,600 volts, which is increased to 33,000 volts through an on-site transformer that feeds into Queensland's electricity grid. The 4.3 MW facility was commissioned in December 2002 and represents an investment of \$7.5 million.

> Environment

Hydro-electric generation (using the energy of moving water to drive generators) is one of the cleanest and most efficient methods of producing electricity. Wivenhoe Small Hydro captures water released for other purposes and, therefore, has no effect on the flow of water downstream. Operation of the hydro does not emit any greenhouse gases and it is one of the few power generation facilities in Queensland able to supply green power.

> Water supply

Wivenhoe Dam is owned by Seqwater, which is the major supplier of untreated water to local government and industry in South East Queensland. The dam consists of a 59-metre-high, 2.3-kilometre-long, earth and rock embankment built across the upper reaches of the Brisbane River.

> Community and tourism

Wivenhoe Dam is a popular tourist attraction, offering a range of activities and recreational facilities. The surrounding Brisbane River Valley is abundant in wildlife and is a designated koala habitat. For more information about Wivenhoe Dam and surrounds, please phone the Lake Wivenhoe Tourism Centre on (07) 5427 8100.

About Stanwell

Stanwell is a Queensland Government owned corporation with an energy portfolio comprising coal and hydro facilities throughout Queensland. Currently, Stanwell trades more than 30 per cent of the State's electricity requirements.

Statistics

Capacity	4.3 MW
Greenhouse Gas Savings	21,000 tonnes per year
Powered Equivalent	43,000 x 100 watt light bulbs
Commissioned	2002



Wivenhoe Small Hydro is located at Wivenhoe Dam, 75 kilometres north-west of Brisbane, in South East Queensland.

> How electricity is made at Wivenhoe Small Hydro

