

# Ramu 2 Hydro Electric Scheme, PNG

**CLIENT** IPBC/PNG Power

**YEAR** 2013 - 2014

**SCOPE OF WORK**

- Full site investigation
- Geological mapping
- Seismic traversing
- Laboratory testing
- Seismic hazard study
- Factual report



**Douglas Partners worked safely in jungle clad terrain with side slopes of 30° - 60°**

**The Ramu 2 Hydro Scheme will develop the final 570m head of water in the Ramu Gorge.**

*“Douglas Partners quickly reduced three options to one using a geohazard matrix in conjunction with a preliminary site inspection.”*

*John Braybrooke - Principal*



The Ramu 2 HEP Scheme will develop the remaining river head in the Ramu Gorge, between Ramu 1 tailrace Tunnel and the Ramu valley, a head of 570m.

The scheme is planned to meet the future power demands of local mines and associated processing plants, as well as domestic demand between Lae and the Western Highlands.

Douglas Partners has been involved in Ramu since 1967 when a DP Principal was part of the original geological investigation team for the scheme.

Over the last two years (2013 - 2014) Douglas Partners were engaged by Parsons Brinckerhoff on behalf of PNG Power and the IPBC (Independent Public Business Corporation of PNG) to carry out pre-feasibility and then full field investigations for a feasibility study of the revised scheme.

Douglas Partners carried out:

- Geological and geomorphological mapping at the weir and power station sites as well as along the 8.25km headrace tunnel route

beneath extremely rugged, jungle clad terrain;

- Seismic refraction traversing;
- Managed and supervised the drilling campaign;
- Soil and rock laboratory testing;
- Seismic risk assessment; and
- Prepared a detailed factual report.

