

MICRO-HYDRO SCHEME  
LOCAL RENEWABLE ENERGY  
BOTTOM-UP SCHEME

Taps water above the village  
Stored in small reservoir  
Down penstock/pipe to  
Turbines in power house

2007 - £21,000 of  
finance through  
'Practical Action' charity  
Used local labour

less fuel wood used  
less deforestation  
less land degradation  
less soil erosion

3

WHERE  
CHAMBAMONTERA PERU  
Peruvian highlands  
1700m  
Isolated communities

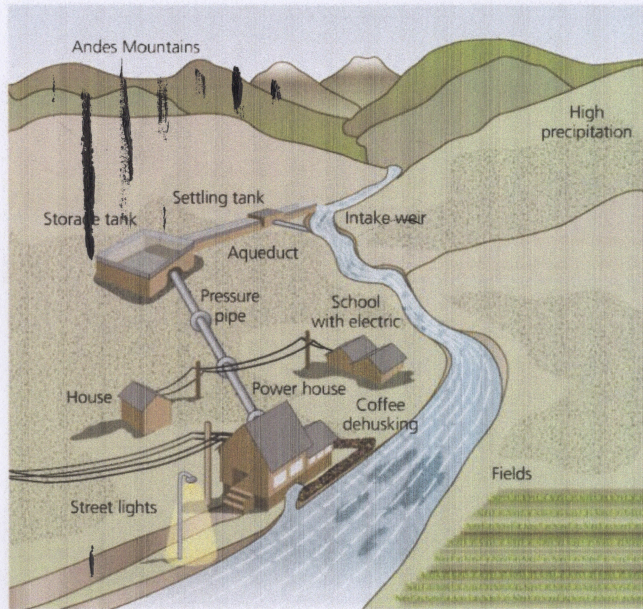


Figure 7: Peruvian valley with features of micro-hydro

- WHY
- No electricity in village
  - Few services; school, chapel, health centre
  - Economy based on farming; coffee + livestock

BENEFITS

1  
60 families received heating and lighting  
100 extra nearby families benefit  
streetlights, school  
workshop, coffee processing

2  
15kw of power  
low maintenance  
low running costs  
low environmental impact  
lasts for 25 yrs