



Huge Weirs

SMALL HYDROPOWER



SMALL HYDROPOWER POTENTIAL IN SAARC COUNTRIES

Country	Potential (MW)	Tapped (MW)	%
Bangladesh	0.15	0.01	7
Nepal	1430	70	5
Sri Lanka	400	302	75.5
India	15000	3198	21
Bhutan	8	8.0	100
Afghanistan	1200	75	6
Pakistan	2265	281	12

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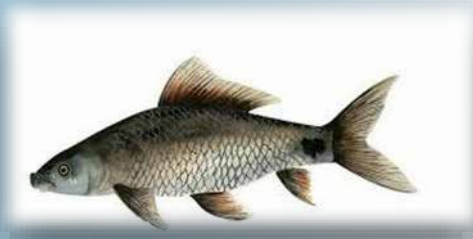
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Uncertain Future

Two-day Training Workshop
 on
 "Stream Ecology and Environmental Flow"
 Venue: Kotmale International Training Center
 (KITI)
 Mid February, 2016
 Target Group
 Environmental Officers of Kandy, Matale,
 Nuwara Eliya, Badulla, Ratnapura &
 Kegalle Districts



Stagnant Pools

For further information

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Small Hydropower Operation

Clean power generation	No !
No greenhouse gas emission	No !
Dependable operation	No !
Advance technology	Yes !
Competitive investment	Yes !
Huge benefits for developers	Yes !



Massive Constructions

Small Hydropower Plants

- Alter stream flow
- Expose stream bed
- Stop fish movements
- Affect waterfalls
- Change stream habitats
- Erode river banks
- Gradually kill streams

More than 200 km stream stretches in the mountain landscape in Sri Lanka are almost dead by now.

Mini Hydropower Plants in Sri Lanka

Mahaweli River	60
Kelani Ganga	31
Kalu Ganga	28
Walawe River	13
Others	11
Total	143
Number under construction	37



Dead River Beds

Lost Stream Stretches May

- Create habitats for mosquitoes
- Vanish bathing pools
- Alter water quality
- Emit greenhouse gasses
- Promote toxigenic algae
- Promote pathogenic protozoa
- Affect livelihood of humans

Monitoring programmes of small hydropower schemes in Sri Lanka are inadequate.

Freshwater Fishes in Sri Lanka

About 53 native fish species inhabit hill streams, of which 41 are endemic to Sri Lanka and 34 of them are found only in hill streams. Twelve endemic species inhabiting hill streams are critically endangered and fourteen are endangered while others are either threatened or vulnerable according to IUCN Red Data Book.



No Environmental Flow

Small Hydropower Operations

- Trigger land slides
- Disrupt material transport
- Remove stream bank vegetation
- Alter groundwater balance
- Disrupt river continuum
- Eliminate stream fishes
- Fade away beauty of nature

Some endemic fishes evolved for millions of years in hill streams of Sri Lanka likely to be extinct in near future.