

CASE C: Concentration of Biogas Plants in Sisuwa and Lekhnath

The ADB Branch Office at Gagangouda of Kaski District along with the Biogas Company conducted a campaign to install biogas plants in Sishwa and Lekhnath. Gagangouda is located on the Mugling-Pokhara Highway in the southeast of Kaski District. In the area of operation, the ADB in Gagangouda, and Sisuwa and Lekhnath Village Development Committees took the lead in the installation of plants. The community is composed of *Gurungs*, *Brahmins* and *Chetris* as well as other ethnic minorities. Most of the people from these villages rely on farming for their livelihood. The villages are accessible by road all the year round, therefore transport of biogas construction materials was easy. Sisuwa and Lekhnath villages demonstrate a successful case of biogas installation with latrine attachments. Previously, the people of these villages used a Katcha latrine or used the open field, but, with the installation of biogas

plants, almost all biogas plant owners now have constructed latrines attached to biogas plants. In Sisuwa and Lekhnath, a total of 195 biogas plants were established by the end of 1990 and 142 (about 73%) biogas plants have latrines attached to them.

A resident of Sisuwa, *Subedar* Bal Bahadur Gurung, enthusiastically told us that his biogas plant has not only provided gas for cooking but is also used as a local fertiliser factory. The wastes and refuse, prior to the installment of biogas plants, were simply burned, but with the installation of biogas plants, Bal Bahadur collects all the waste and refuse and adds it to the biogas slurry which ultimately decomposes, increasing manure production. He owns a 10m³ biogas plant which produces enough manure to supply nutrients for his one hectare plot of land. Thus, he has no need of chemical fertilisers.

The experiences of Sisuwa and Lekhnath provide us with good examples of successful efforts towards self-sustaining development with extensive and comprehensive biogas installations at the village level.

Sanitation has been improved, by attaching latrines to biogas plants, fuelwood has been replaced by biogas for cooking, and the production and quality of farm manure have increased simultaneously. Thus, Sisuwa and Lekhnath have provided a successful example for other villages to follow.

Sl. No.	Name of the Village	Total No. of Biogas Plants	No. of Biogas Plants with Latrines	Percentage of Biogas Plants with Latrines	Total No. of Latrines
1	Sisuwa	195	142	73%	142
2	Lekhnath	195	142	73%	142
3	Chandrapur	195	142	73%	142
4	Chandrapur	195	142	73%	142
5	Chandrapur	195	142	73%	142
6	Chandrapur	195	142	73%	142
7	Chandrapur	195	142	73%	142
8	Chandrapur	195	142	73%	142
9	Chandrapur	195	142	73%	142
10	Chandrapur	195	142	73%	142
11	Chandrapur	195	142	73%	142
12	Chandrapur	195	142	73%	142
13	Chandrapur	195	142	73%	142
14	Chandrapur	195	142	73%	142
15	Chandrapur	195	142	73%	142
16	Chandrapur	195	142	73%	142
17	Chandrapur	195	142	73%	142
18	Chandrapur	195	142	73%	142
19	Chandrapur	195	142	73%	142
20	Chandrapur	195	142	73%	142
21	Chandrapur	195	142	73%	142
22	Chandrapur	195	142	73%	142
23	Chandrapur	195	142	73%	142
24	Chandrapur	195	142	73%	142
25	Chandrapur	195	142	73%	142
26	Chandrapur	195	142	73%	142
27	Chandrapur	195	142	73%	142
28	Chandrapur	195	142	73%	142
29	Chandrapur	195	142	73%	142
30	Chandrapur	195	142	73%	142
31	Chandrapur	195	142	73%	142
32	Chandrapur	195	142	73%	142
33	Chandrapur	195	142	73%	142
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41	Chandrapur	195	142	73%	142
42	Chandrapur	195	142	73%	142
43	Chandrapur	195	142	73%	142
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45	Chandrapur	195	142	73%	142
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73	Chandrapur	195	142	73%	142
74	Chandrapur	195	142	73%	142
75	Chandrapur	195	142	73%	142
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77	Chandrapur	195	142	73%	142
78	Chandrapur	195	142	73%	142
79	Chandrapur	195	142	73%	142
80	Chandrapur	195	142	73%	142
81	Chandrapur	195	142	73%	142
82	Chandrapur	195	142	73%	142
83	Chandrapur	195	142	73%	142
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85	Chandrapur	195	142	73%	142
86	Chandrapur	195	142	73%	142
87	Chandrapur	195	142	73%	142
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89	Chandrapur	195	142	73%	142
90	Chandrapur	195	142	73%	142
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94	Chandrapur	195	142	73%	142
95	Chandrapur	195	142	73%	142
96	Chandrapur	195	142	73%	142
97	Chandrapur	195	142	73%	142
98	Chandrapur	195	142	73%	142
99	Chandrapur	195	142	73%	142
100	Chandrapur	195	142	73%	142