

# FILMS UNITED NATIONS NATIONS UNIES



## "BIOGAS IN FIJI"

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16mm, colour, 6 mins. 2 secs.

Narration Script

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FOOTAGE

IMAGE

SOUND

000

HARBOUR AND  
VARIOUS STREET  
SCENES, FIJI

RADIO ANNOUNCER:

007

"Radio Fiji News".

(Fijian words).

"Good morning, Fiji".

017

SHOP INTERIOR

"A senior member of the U.N. task force said today the cost of fossil fuels would continue to rise. Developing countries needed to find alternate energy sources in order to survive. Some of these new forms of energy could come from unexpected areas, he added".

029

SQUEALING PIG,  
PIG PEN BEING  
HOSED DOWN

NARRATOR:

034 SINGH FARM -  
VARIOUS SCENES

This is the farm of Mahindra Singh. It's a fairly prosperous family operation 40 miles from Suva.

047 ANAEROBIC DIGESTOR

Mahindra's younger brother. He operates a little trap which will allow pig manure to flow into an anaerobic digester. In that chamber millions of bacteria make methane gas out of the manure.

050 SMALL PIPELINE

The gas produced yesterday is now going up the pipe under its own pressure to cook this morning's breakfast.

054 STOVE

The family buys no cooking fuel, saving about 600 dollars a year.

063 PIG PENS HOSED  
DOWN - VARIOUS  
SCENES

They could also run small motors on the gas, like the motor which pumps the water to hose the pig pens. But they haven't got around to rigging it up as yet.

Any organic matter, vegetable wastes as well as all sorts of manures, will work in a digester.

But you have to count the effort it will take to get the wastes into the digestors each day.

With pigs in pens and gravity feed, the harvest is easy.

You could even use sea water instead of the fresh water Singh uses.

093 PAN OF CAR  
ON ROAD

There are very few digestors in Fiji compared with say India or China, but they are coming.

100 CAR INTERIOR,  
SOANE AND JOHNNY

Soane is an agricultural officer. He's one of several people who have been promoting digestors here in the last few years. But only to farmers already well established.

He finds it very foolish to go into animal husbandry because you want to make a little gas.

If a farmer in his district wants to build one, Soane takes him to see a digestor working. This morning he's taking Johnny, a Fijian farmer, to see Singh's operation.

- 119 SINGH, JOHNNY,  
AND SOANE WALK Johnny's concerned about the size of the digester and number of pigs he'd need, and
- 126 SOANE ATOP  
DIGESTOR Soane points out Singh has done well with a 1000-gallon model based on 100 pigs.
- 131 PIGS One pig produces 3 cubic feet of gas a day. 3 cubic feet will run a six inch burner for 8 minutes. Singh's pigs give 13 hours of burning a day, and still a lot is wasted.
- 143 INTERIOR, KITCHEN After the tour to see how it all works, there is tea brewed over a flame from the digester.
- 148 EXTERIOR, MEN AT  
TEA The men agree home grown energy isn't a hard idea to sell once some wrong notions are out of the way. For one thing the gas doesn't smell. And if there are religious objections in some places about pigs, almost any other farm animal will do as well.
- 158 CHILDREN, PIGS -  
VARIOUS VILLAGE  
SCENES It's one thing to install digestors on successful working farms. It's another thing entirely to get them established in Fijian villages.
- It's not for lack of pigs. Pigs roam the villages in small gangs, eating and excreting where they like.

- To put pigs in pens would mean a big cultural change, and also an economic change, since pig feed would have to be bought, unless villages in the South Pacific could be self-sufficient, making all their own fuel, fertilizer, and feed with the digester as the hub of the system.
- 187      MAN AND PIG IN  
          PEN
- 193      DIGESTOR
- 196      PONDS
- 200      ALGAE
- 206      fish feed
- 209      KITCHEN STOVE  
          AND PIPELINE
- 215      PIG STARES TO  
          CAMERA
- 218      LAST FRAME

