

Technology Fact Sheet for Mitigation

Technology	Description	Benefits	Challenges
Bio oil and ethanol gel lanterns ⁱ	These lanterns are also a good substitute to paraffin for providing lighting. Bio-oil can be produced at a small scale for community use. The prices compared to paraffin are however still high. Five litres of gel costs about \$9.70 and paraffin costs approximately \$3.55 for the same amount. Ethanol gel lamp cost another R50 (around \$8) in South Africa.	These are clear fuels that can be locally produced from community jatropha plantations (bio-oil). Crude oil pressers can also be used to extract the oil in the case of bio-oil.	Bioethanol cannot however be produced at a small scale and costs of both bio-oil and ethanol gel are still high compared to paraffin. Both awareness on the bio-oil/bio-ethanol and availability and technology availing are the other challenges.

ⁱ This fact sheet has been extracted from **TNA Report – Technology Needs Assessment and Technology Action Plans For Climate Change Mitigation– Zambia**. You can access the complete report from the TNA project website <http://tech-action.org/>