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South African National Energy  
Development Institute (SNC) Ltd.



# SEAD Workshop for Sub-Saharan Africa COP 26 Product Efficiency Call to Action

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Theo Covary

[www.savingenergy.org.za](http://www.savingenergy.org.za)

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# Benefits & Challenges of SA's S&L Programme



- 🌱 National standards & regulations (laundry, refrigeration, ovens, AC, dishwashers, water heaters, AV standby)
- 🌱 Industry has supported the programme
- 🌱 Effective awareness, educational and communication campaign
- 🌱 Consumers can now access significantly more EE appliances

Appliance	UEC 2010 (kWh)	2014	2021 Prop MEPS	Pen Rate
Fridge / Freezer	344	308	243	81%
Freezer	423	406	366	31%
Washing Machine	190	185	162	40%
Water Heaters	1 351	1 042	No change	42%
AC (Split Cooling)	993	960	~950	2%

HH would save R683 (2030) & R978 (2040) in electricity from EE standards

- 🌱 Environmental: CO<sub>2</sub> emissions by 3.7Mt (2030) & 5.8 (2040) Best practice scenario

# Challenges



🇿🇦 Dispel the myth that EE appliances MUST cost more

*The table is an average of most common models of large ovens in SA. MEPS level A are cheaper than MEPS level B*

Characteristics	MELS level B	MEPS level A
Size	80 – 86 l	60 - 78 l
Annual electricity consumptions	221.2 kWh	156 kWh
Average prices	R5 932	R5 419

- 🇿🇦 Limited testing capacity
- 🇿🇦 MVE not sufficiently robust / limited to 'blitz' events
- 🇿🇦 Resistance to MEPS strengthening
- 🇿🇦 GEF project end & lockdown coincided = hard stop for project
- 🇿🇦 S&L does not appear to enjoy high level support, despite its successes

# Regional Harmonization



- 🌍 South Africa has over 10 years experience in S&L
- 🌍 It is an entry point and service centre for most brands entering SADC
- 🌍 National standards in place
- 🌍 It has (some) testing facilities – soon to be upgraded and expanded
- 🌍 Crucial that the start made by SA is leveraged, as it can
  - Reduce start up costs
  - Rolling start
  - Reduce / remove loopholes
  - Coordinate MVE
  - Create jobs & contribute to international CC obligations
- 🌍 United4Efficiency model regulations reduce complexity and costs
- 🌍 S&L programme office officially takes charge 1 December –

**WE LOOK FORWARD TO HEARING FROM YOU**



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**THANK  
YOU**



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Department:  
Mineral Resources and Energy  
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