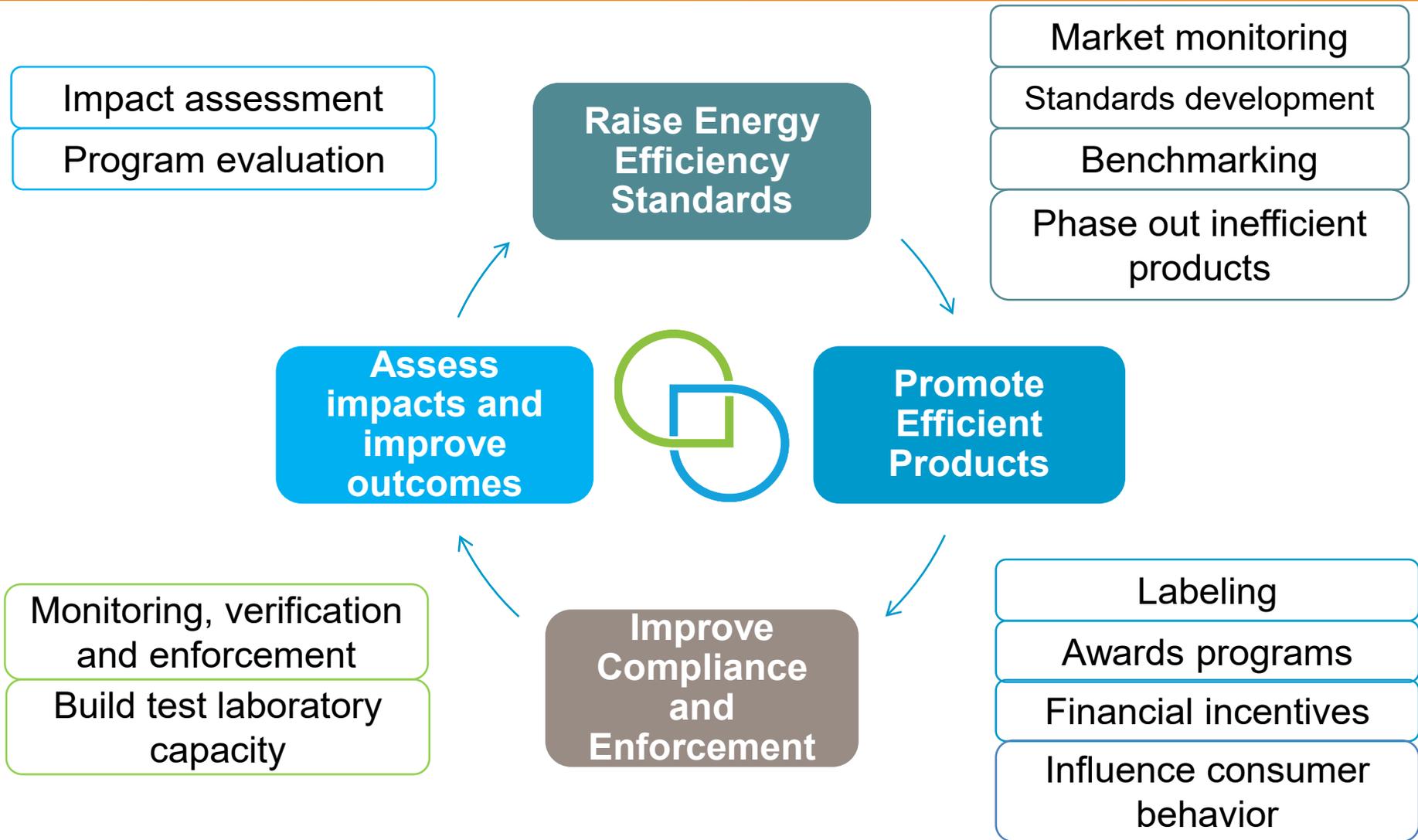


Evaluation of Compliance Framework of labeling program in India

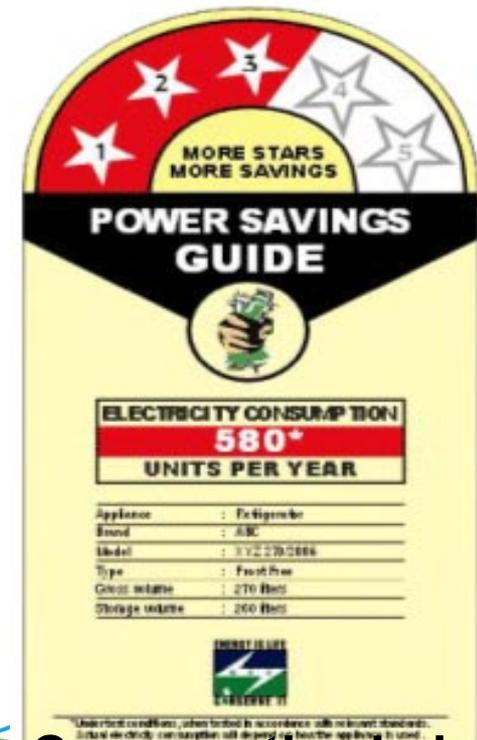
Neha Dhingra, Senior Associate, CLASP
December 6, 2018

CLASP improves the environmental and energy performance of appliances & equipment

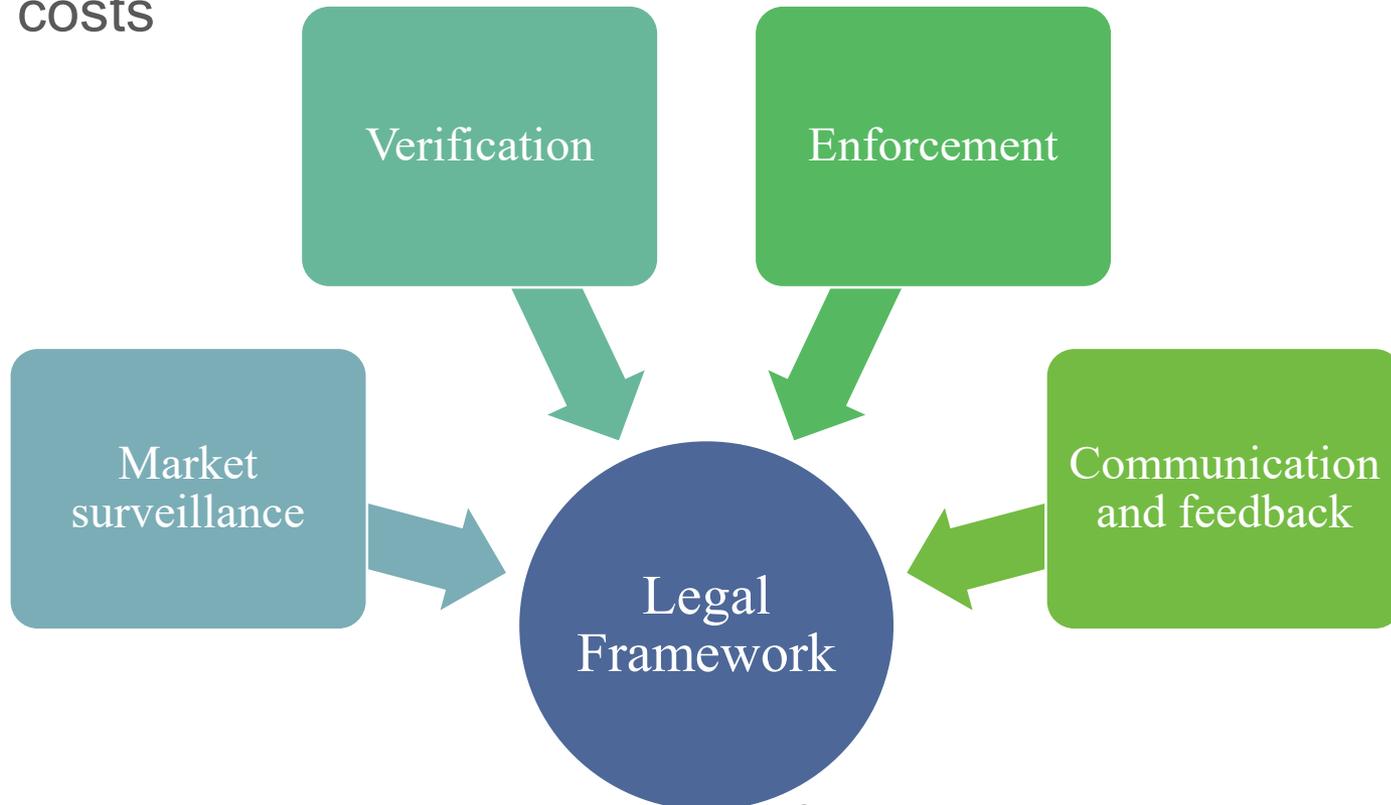


- S&L program in India
- Legal framework
- MVE & Compliance Control
- Evaluation of MVE Regime
- Elements of MVE regime
- Key Takeaways

- Energy Conservation Act, 2001 and established Bureau of Energy Efficiency (BEE) in 2002.
- BEE launched Standards and Labeling (S&L) program in 2006
- Labeling program currently includes 22 products, of which 10 are under mandatory phase
- 2 types of labels- comparative and endorsement
- Labeling program is based on self-declaration by manufacturers, supported by NABL accredited test lab reports



- Monitoring, verification and enforcement (MVE) is an integral part of labeling programs
- Ensures integrity of S&L programs by minimising non compliance costs



Inter related elements of an MVE regime

- BEE with support from CLASP conducted a comprehensive evaluation of MVE regime of S&L program
- Identified gaps, barriers and specific areas for improvement
- Studied international best practices and provided recommendations
- BEE implemented several measures for developing a robust MVE framework
- Several measures are under implementation

- Energy Conservation Act, 2001. Amended in 2010
- Provides legal framework, institutional arrangement and regulatory mechanism for the S&L scheme
- Describes powers of BEE and state Governments to carry out MVE activities for S&L
- Defines role and responsibilities of key stakeholders such as manufacturers, BEE, state Government, state designated agencies (SDAs) etc.
- Regulation for mandatory products also describe MVE activities and legal responsibilities of stakeholders

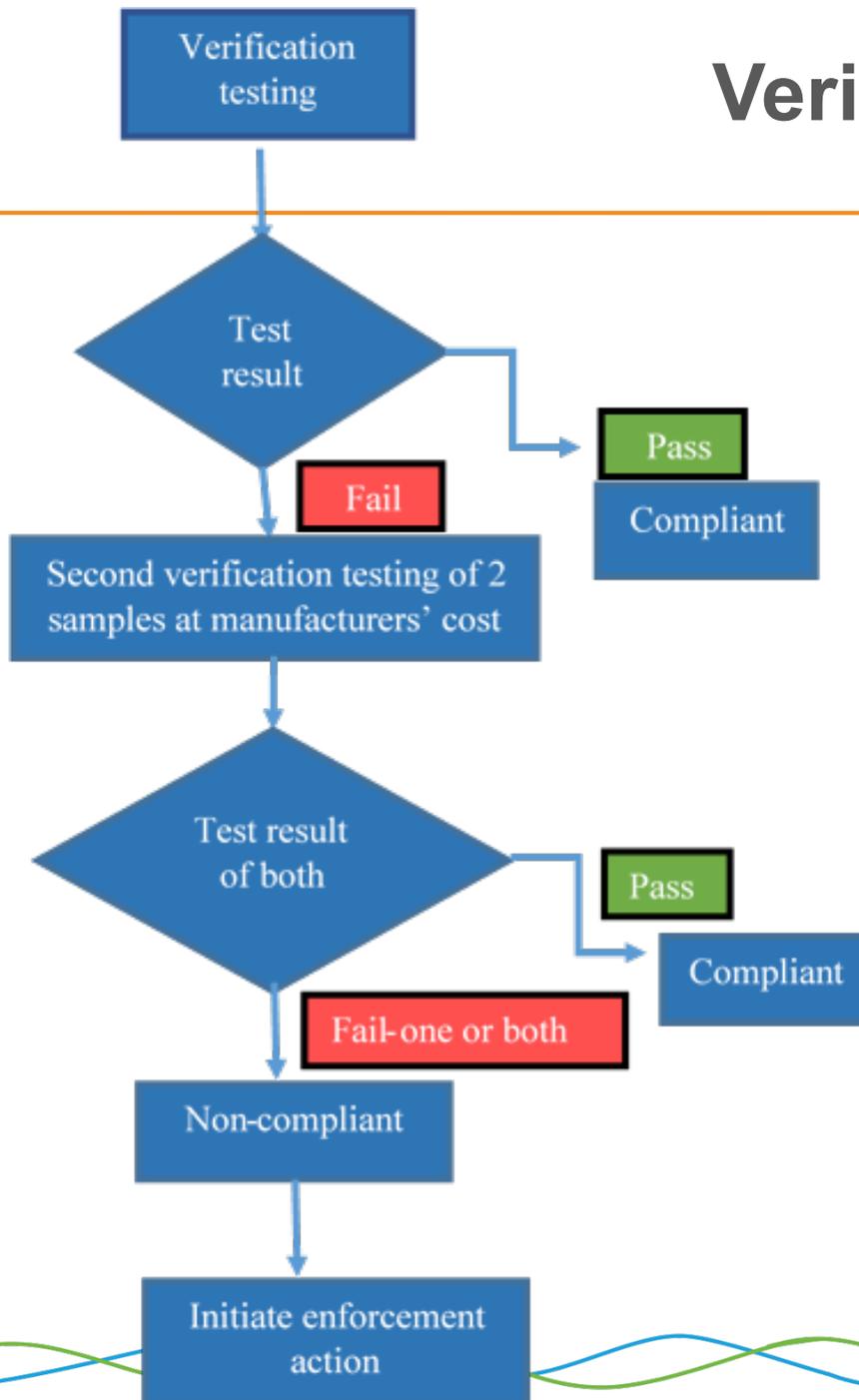
- Process of checking that the products in the market are labeled correctly
- Checks for the correctness, validity, position, size and display of labels
- Worked with BEE to prepare an operations manual for the administration of S&L- first of its kind
- Manual lays out stepwise guidelines for surveillance



- Process of determining whether the declared energy performance of the registered products is accurate
- Cornerstone of compliance procedure
- Conducted by BEE for several products such as ACs, refrigerator, transformers
- Sample selection for verification testing on random basis
- Challenge testing as required- third party complaint



- Criteria for sampling needed to be established
- Defined criteria which are included in the Operations manual
 - New models
 - Models with a higher risk of failure
 - Models with high market share
 - Models with high contribution to energy savings
- An algorithm for criteria based sample selection developed
- Integrated with web portal for automatic unbiased sample selection



- Series of actions taken by an authority in case of non-compliance as per the EC Act and rules of program

Direct the manufacturer with intimation to SDAs that within two months

Correct the star level

Remove the defect and deficiency

Withdraw stock

Change the particulars on advertising material

Publish the details of manufacturer in national and regional daily newspapers

Intimate to SDAs to initiate adjudication process against the manufacturer/trader

A Mobile application for consumers

Informed decision making

Outreach and awareness



Retailer training program

18 programs in 6 major cities

2000 retailers attended

Registration database
Energy savings

Technical committee
meeting minutes

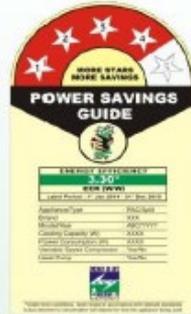
S&L website

Advertisements
Alerts and updates

Guidelines for
manufacturers

www.beestarlabel.com

Check Testing Result of Room Air Conditioners.



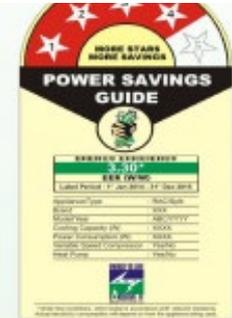
Attention Consumers

FOLLOWING AIR CONDITIONERS FAILED TO MEET THE ENERGY CONSUMPTION DECLARED ON THEIR LABEL:

S. No.	Manufacturer Logo	Manufacturer/ Company Name	Brand	Model	Star Rating	EER as per BEE record	Test Results (EER)		Result
							Sample 1	Sample 2	
1		Samsung India Electronics Pvt. Ltd.	Samsung	AR18FC3TAUR	3	3.01	2.76	2.88	FAIL
2		Panasonic India Pvt. Ltd.	Panasonic	CS-LC18PKY	2	2.82	2.38	2.44	FAIL
3		Godrej & Boyce Mfg. Co. Ltd.	Godrej	GSC18FC3WMZ	3	2.94	2.51	2.76	FAIL

EER represents Energy Efficiency Ratio

This notice has been issued in compliance with the provision of regulation 7 of the Bureau of Energy Efficiency (Particulars & Manner of their Display on Labels of Room Air Conditioners) Regulations, 2009.



Attention Consumers

FOLLOWING AIR CONDITIONER FAILED TO MEET THE ENERGY CONSUMPTION DECLARED ON ITS LABEL:

S. No.	Manufacturer Logo	Manufacturer/ Company Name	Brand	Model	Star Rating	EER as per BEE record	Test Results (EER)		Result
							Sample 1	Sample 2	
1		ETA General Private Limited	General	ASGTRACT	4	3.15	2.70	2.76	FAIL

EER represents Energy Efficiency Ratio

This notice has been issued in compliance with the provision of regulation of the Bureau of Energy Efficiency (Particulars & Manner of their Display on Labels of Room Air Conditioners) Regulations, 2009.

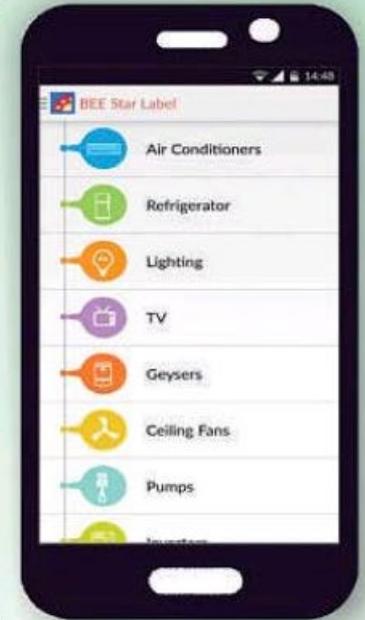


09

Use Mobile App for Purchase of BEE Star Labelled Appliances

Key Features

- See cost savings due to star labelled appliances.
- Customize settings.
- Provides comparison among products.
- Provision for feedback.



How to Download:

Search for key words like “bee star label” on Apple or Android smart phones



Ministry of Power
Government of India



BUREAU OF ENERGY EFFICIENCY (BEE)
Ministry of Power, Government of India,
Website: www.beeindia.gov.in

davp_34-106/13/01/55/1516

Energy savings – S&L website

Select Financial Year

2018-2019

SUBMIT



BACK

Savings showing for Financial Year 2018-2019

Energy Savings since 2011

121.29 BU

Energy Savings in 2018-2019

1.83 BU

Energy Savings in 2018-2019

1.83 BU

Mandatory Appliances Produced in Financial Year 2018-2019

Sl. No	Appliances	Star 1	Star 2	Star 3	Star 4	Star 5	Total
1 & 2	Room Air Conditioners(Window,High Wall Split, Ceiling Mounted)	39,939	1,68,173	8,10,438	1,131	81,401	11,01,082
3	Colour Television	11,74,272	14,92,616	7,70,691	6,36,686	1,33,222	42,07,487
4	Direct Cool Refrigerator	3,46,892	5,25,282	18,55,863	5,16,207	1,26,968	33,71,212
5	Distribution Transformer	53,939	5,308	0	83	5,113	64,443
6	Frost Free Refrigerator	28,760	2,47,411	5,34,834	86,392	939	8,98,336
7	Stationary Type Water Heater	0	60	29,323	1,91,905	9,38,479	11,59,767
8	Tubular Fluorescent Lamp(TFL)	1,19,69,099	0	19,59,297	0	4,238	1,39,32,634
9	LED LAMPS	0	0	4,13,20,517	17,105	6,59,701	4,19,97,323
10	Room Air Conditioner (Variable Speed)	0	0	7,72,787	79,054	1,84,993	10,36,834

Voluntary Appliances Produced in Financial Year 2018-2019

Sl. No	Appliances	Star 1	Star 2	Star 3	Star 4	Star 5	Total
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Model [628]	Gross Volume (litres)	Storage volume (litres)	Electricity Consumption (unit per year)	Star Rating
Select All GN-M702HSF GC-B519ESQ GN-M602HLF GN-M702HLF GR-M772HLF	Select All 190 200 217 230 231	Select All 174 189 201 211 214	Select All 159 163 170 173 180	Select All 1 2 3 4 5

SEARCH   BACK



ALL	Model	ALL
ALL	Storage Volume (litres)	ALL
on (units per year) ALL	star rating	ALL

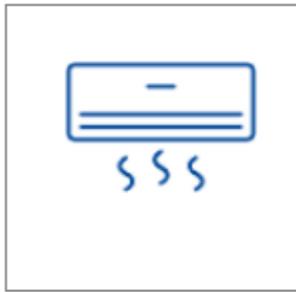
Export to f

Model Number	Gross Volume(Litres)	Storage Volume(Litres)	Electricity consumption (unit per year)	Valid Till Date	Star Rating
GN-M702HSHM	546	507	400	31-12-2018	
GC-B519ESQZ	452	398	360	31-12-2018	

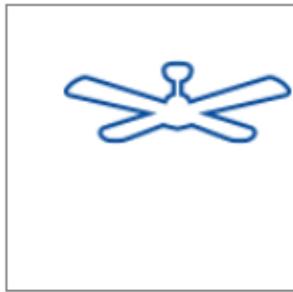


Bureau of Energy Efficiency
Ministry of Power, Government of India

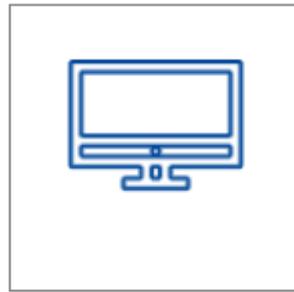
Technical Committee Meeting



Room Air Conditioner



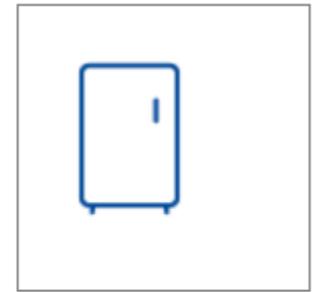
Ceiling Fan



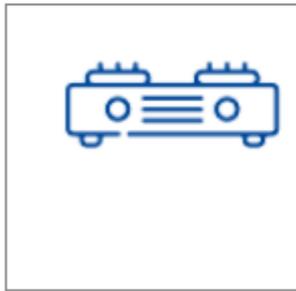
Colour Television



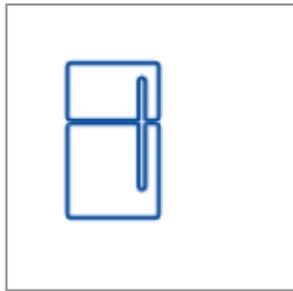
Computer



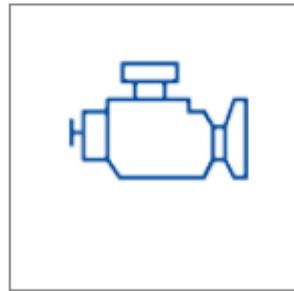
Direct Cool Refrigerator



Domestic Gas Stove



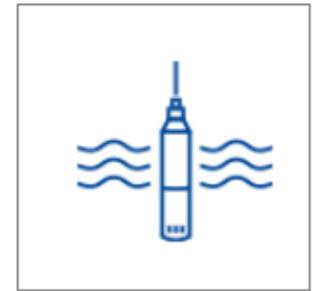
Frost Free Refrigerator



General Purpose Industrial
Motor



Washing Machine



Agriculture Pumpset

- Strong compliance framework is key to success of the program
- Robust MVE builds credibility, consumer confidence and safeguard industry investment



Any questions?

