

# QR Codes for Appliances and Equipment

Enabling Access to Information and Facilitating Compliance

Lin Haoxin

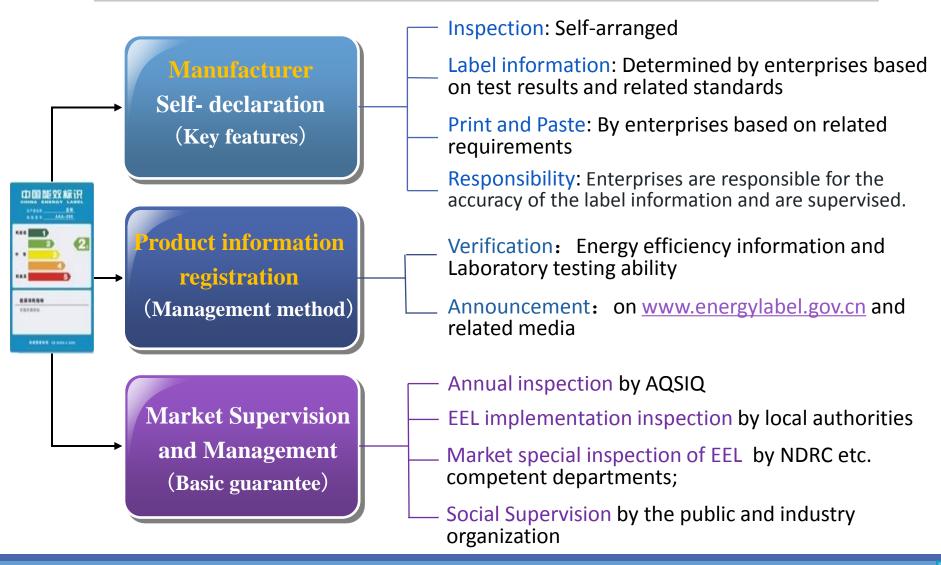
China Energy Label Center China National Institute of Standardization (CNIS)

# About China Energy Label (CEL)

- Legislation basis: "Energy conservation law ", "Product quality law", "Certification and accreditation regulation ", "Administration regulation of energy efficiency label "
- ■Type of Program: Mandatory labeling program
- Authorities: National Development and Reform Commission (NDRC), General Administration of Quality Supervision, Inspection and Quarantine of China (AQSIQ) and Certification and Accreditation Administration of China (CNCA)
- Implementing agency: China national institute of standardization (CNIS)
- Implement pattern: Stick China Energy Label on product or obvious places of product package if product itself is small. Introduce the information of energy efficiency grade on user's manual



# About China Energy Label (CEL)





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Model number

**Grade 1**: High Energy Efficiency and Low Energy Consumption

Grade 5 (sometimes Grade 3 if there are three levels for that product):
Low Energy Efficiency and High
Energy Consumption

Valid Energy Efficiency Standard (EES)



Ultimate Responsible Party or Brand Owner

Present energy consumption indicators and main energy performance indicators which are determined according to Regulation on Label Implementation of each target product



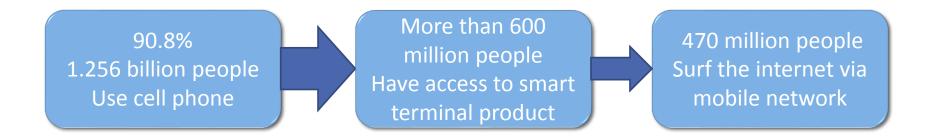


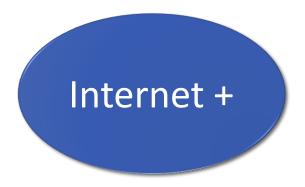
# Why using QR Code for CEL

	Expected Function of CEL	Limitation of Current CEL
For Consumers	Adequate information provided for guiding consumers to purchase energy-efficient products	<ul> <li>Hardly understand indicators on label (EEI, APF, etc.)</li> <li>Limited size and information, could not make well informed purchase decisions.</li> </ul>
For Manufacturers	More product information provided for promoting the product	<ul> <li>Limited size, more products information could not be pushed to consumers</li> <li>No interaction with consumers</li> </ul>
For Market Supervisors	Utilized as An important supervision tool of products quality for government	<ul> <li>Many assistant tools needed</li> <li>Reading-recording-inquiry by person, leading to many mistakes and reduces the work efficiency</li> </ul>



# Why using QR Code for CEL





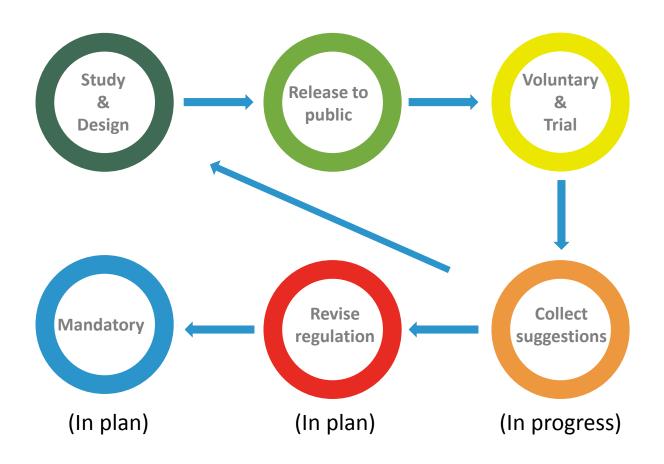


# Why using QR Code for CEL

- Easy operation and quick response
- Simple scanning equipment required
- No technology patent
- Low cost
- Consumer-friendly



# QR CEL Implementation Road Map





#### **QR CEL**

#### **Current Coverage**

AC, VS-AC, Refrigerator, Electric washer, Electric water heater, Induction cooker, Rice cooker, Fan, Flat-panel TV, Microwave oven, Heat Pump, Range hood, Photocopier/Printer/Fax Machine

- Sales volume
- Social effect

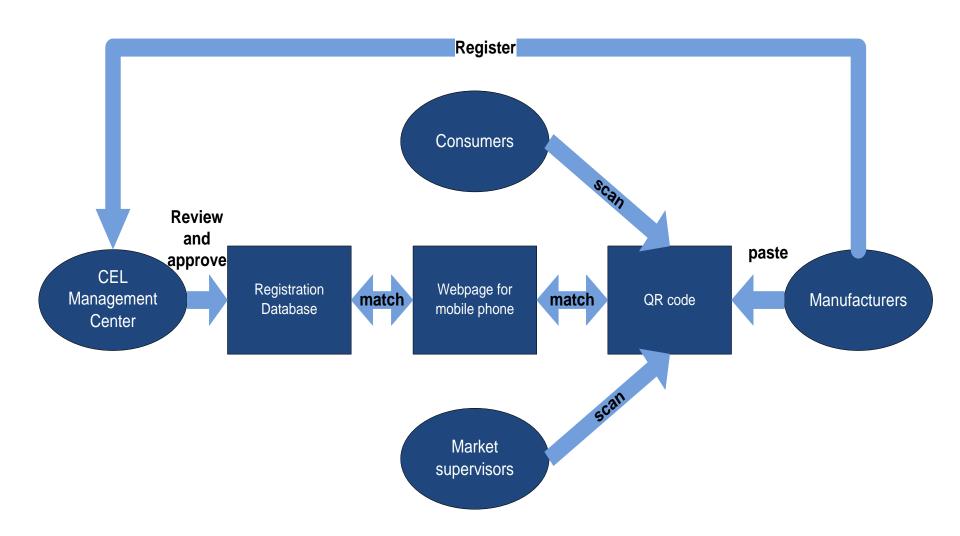
#### QR CEL style





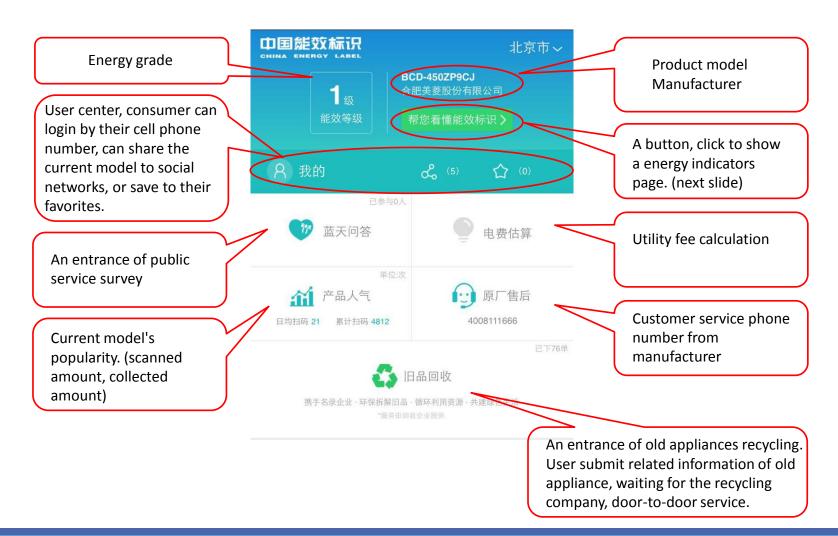
web link → registration number → sole model

# QR CEL Data Flow





### QR CEL Scanned result





#### QR CEL Scanned result



# Scanning QR CEL





- Consumer can use any QR code scanning APP to access QR CEL.
- CNIS developed specialized APP to help consumer get more knowledge of energy efficient by scanning QR CEL. This APP is supported by CLASP.

# QR CEL Implementation Milestones

8 JUL, 2013 - Initial QR CEL project.

**15 JUN, 2014** - Reported QR CEL implementation solution to NDRC, AQSIQ and CNCA.

11 OCT, 2014 - Published QR CEL.







**16 OCT, 2014** - Encouraging manufacturers to voluntarily use QR code on CEL.

- NDRC/AQSIQ/CNCA Announcement [2014] No.30.



# QR CEL Implementation Milestones

**17 OCT, 2014** – Trial QR CEL with MeiLing (a manufacturer), started collecting advices from manufactories. Later, a total of 45 manufactories joined to trialing.

**25 DEC, 2014** – Carried out one-month-long consumers communication activity with Suning (a famous household appliances dealer in China). Meanwhile, began collecting consumer opinions.







# QR CEL Implementation Milestones

**20 MAR, 2015** – Added QR CEL to revising version of Administration regulation of energy efficiency label.

**20 MAY, 2015** – Began collecting advices from supervision agency.

**8 AUG, 2015** – Updated QR CEL scanned result to current version, after studied then accepted advices from stakeholders. Communicated to consumers in Sustainable Consumption Week (an activity held by UNEP).







## Implementation of QR CEL (1 JAN – 31 JUL)

Models 4,092

Scanned 340,000+

Appearing cities

372

#### **TOP5 Scanned**

MELNG美菱	Models	312	Scanned	48113
GREE KAP	Models	83	Scanned	21221
TCL	Models	155	Scanned	17149
ROBAM老板 <sub>精湛科技 轻松烹饪</sub>	Models	88	Scanned	6902
Joyoung 九阳	Models	76	Scanned	8291



# Thanks for your attention.



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