



KEMENTERIAN TENAGA, SAINS, TEKNOLOGI,
ALAM SEKITAR DAN PERUBAHAN IKLIM
MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY,
ENVIRONMENT AND CLIMATE CHANGE



LCC 2030 CHALLENGE

Accelerating Low Carbon Cities in Malaysia



**CHAMPIONING
GREEN ECONOMY**



EXECUTIVE SUMMARY

1. The Low Carbon Cities 2030 Challenge is an initiative by MGTC to accelerate the transformation towards low carbon cities in Malaysia.
2. It aims to establish designated low carbon zones within State Capitals and Major Cities.
3. These low carbon zones will have reduced GHG emissions through efforts in energy and water efficiency, low carbon mobility, reduction in waste to landfills and increase in green spaces.
4. These low carbon zones will be cleaner (air and urban environment), cooler (reduced urban heat island effect), healthier (reduced air pollution) and cheaper (lower utility costs).
5. Cities will be guided with systems and tools to develop low carbon action plans, engage with stakeholders, deliver low carbon solutions and be recognised for their low carbon efforts.
6. Cities and organisations that participate in the LCC 2030 Challenge stand to benefit through enhanced reputation in climate action, increased efficiency in city operations and future proofing their cities.

LCC 2030 CHALLENGE FOCUS ELEMENTS & TARGETS



The LCC 2030 Challenge will focus on 5 key elements:

Reducing CO₂ emissions from:

- Electricity consumption from buildings and common areas
- Petrol and diesel private vehicle use
- Waste ending up in landfills
- Water consumption from buildings and common areas

Increasing CO₂ sequestration from:

- Trees, green spaces and water bodies

The LCC 2030 Challenge targets a total of 45% CO₂ emissions reduction by adopting these measures:

- **Energy:** Maximize building energy efficiency and increasing adoption of renewable energy
- **Mobility:** Increasing the use of public transport (bus), cycling, walking and other low carbon modes
- **Waste:** Reduce the amount of waste that goes to the landfills
- **Water:** Maximize water efficiency and increase adoption of rainwater harvesting

CATEGORIES

LOW CARBON ZONE



INDIVIDUAL BUILDING / ORGANISATION



Applicable for (area > 50 hectares):

- Local Authorities
- Universities
- Industrial & Commercial Parks
- Economic Corridors
- Townships
- Naval & Army Base

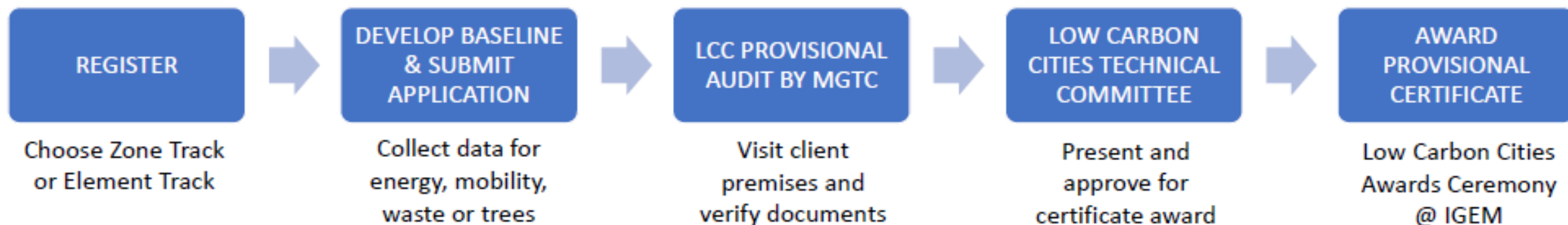
Applicable for:

- Commercial Buildings (office, malls, hotels, etc.)
- Hospitals
- Schools
- Ports & Terminals
- Sports Complex
- Parks

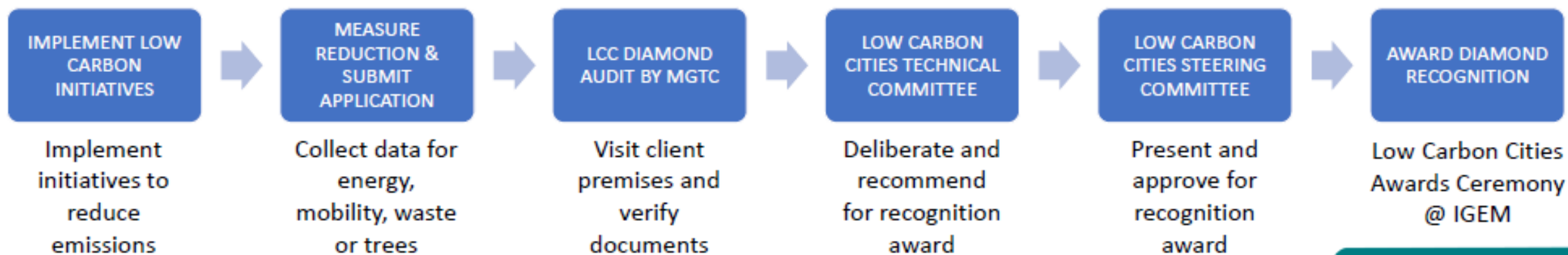
CERTIFICATION PROCESS



PROVISIONAL CERTIFICATE



DIAMOND RECOGNITION



SEKSYEN 13, PETALING JAYA

KE ARAH BANDAR RENDAH KARBON



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