

Special Session: The GlobalABC Africa Roadmap

Buildings: Maxine Jordan, IEA and Ian Hamilton, UCL Energy Institute Pretoria, Tuesday 15th October 2019

Buildings energy efficiency sessions in partnership with:



Energy Efficiency Training Week: Buildings programme

- 1. Where to start: Energy use in buildings
- 2. Where to start: Energy efficiency potential in buildings Special session: GlobalABC Regional Roadmaps
- 3. Toolkit: Energy efficient building design technologies
- 4. Toolkit: Energy efficient building system technologies
 Special session: Green Building in Africa *Elizabeth Chege, KGBS*Special session: The GlobalABC Africa Roadmap for buildings and construction
- 5. What are the steps? Determining the current status of policies
- 6. Toolkit: Energy efficiency policies and target setting with guest speaker: Hlompho Vivian, GBC SA
- 7. What are the steps? Implementing codes and standards
- 8. What are the steps? Building operations and procurement with guest speaker: Christelle Van Vuuren, Carbon Trust
 - Special session: The multiple benefits of energy efficiency
- 9. Did it work? Evaluation and energy efficiency indicators Special session: Financing energy efficiency in buildings
- 10. Buildings quiz





Why regional roadmaps?



Meaningful targets and timelines to achieve low emission, efficient and resilient buildings in three major regions.





Roadmap outputs include targets for 8 key areas

	Baseline status	Short-term	Medium-term	Long-term
	(2019)	(2030)	(2040)	(2050)
Urban planning	Minimal sustainable buildings planning	Achieve: 25% sustainability plans Aspire: 50% sustainability plans	Achieve: 50% sustainability plans Aspire: 75% sustainability plans	Achieve: 75% sustainability plans Aspire: 100% sustainability plans
New buildings	<5% net zero ready buildings	Achieve: 50% net zero ready Aspire: 50% net zero buildings	Achieve: 75% net zero ready Aspire: 75% net zero buildings	Achieve: 100% net zero ready Aspire: 100% net zero buildings
Building retrofits	<10% sustainable building renovation	Achieve: 30% renovation Aspire: 50% renovation	Achieve: 50% renovation Aspire: near zero renovation	Achieve: near zero renovation Aspire: net zero renovation
Building operations	Minimal use of energy and sustainability management	Achieve: 20% coverage Aspire: 40% coverage	Achieve: 40% coverage Aspire: 60% coverage	Achieve: 75% coverage Aspire: 100% coverage
Systems	Less-efficient lighting, appliances and equipment	Achieve: 50% MEPS coverage Aspire: >25% of current BAT	Achieve: 75% MEPS coverage Aspire: >50% of current BAT	Achieve: 100% MEPS coverage Aspire: >100% of current BAT
Materials	Significant energy, emissions and global warming potential	Achieve: 10% GHG + GWP decrease Aspire: 50% GHG + GWP decrease	Achieve: 30% GHG + GWP decrease Aspire: 80% GHG + GWP decrease	Achieve: 50% GHG + GWP decrease Aspire: 100% GHG + GWP decrease
Resilience	Minimal adaptation	Achieve: 50% of new buildings Aspire: 50% of all buildings	Achieve: 75% of new buildings Aspire: 75% of all buildings	Achieve: 100% of new buildings Aspire: 100% of all buildings
Clean energy	Significant use of fossil fuels and carbon-based electricity	Achieve: 33% zero onsite emissions Aspire: 33% clean energy	Achieve: 66% zero on- site emissions Aspire: 66% clean energy	Achieve: 100% zero on-site emissions Aspire: 100% clean energy

- Key actions and targets
 - Overall
 - Technologies
 - Policies
 - Capacity Building
 - Finance
 - Multiple benefits
- Achievable & Aspirational targets
- Definition of indicators and metrics





The process: the importance of collective discussion and input





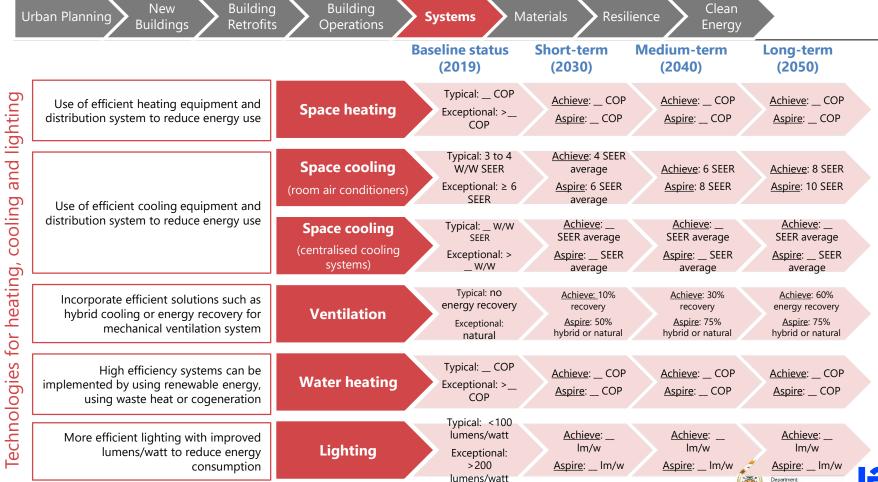








Energy REPUBLIC OF SOUTH AFRICA



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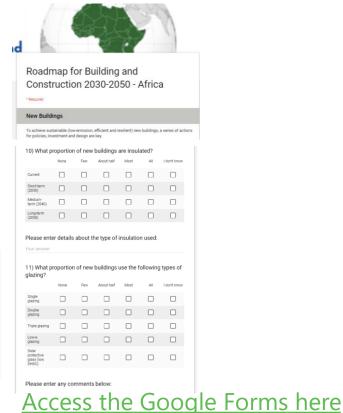
A collaborative process

• Workshops, webinars, surveys













Where are these technologies at today

Technologies for:

- New buildings
- Retrofits
- Systems
- > Think about the status of the key technologies you identified as they are today, in terms of performance and availability.

