

ROADMAP SUSTAINABLE AND ENERGY EFFICIENT BRICK PRODUCTION IN BANGLADESH

GOALS



Reduce carbon dioxide (CO₂) production by 45% and air pollution (PM_{2.5}) by 90%



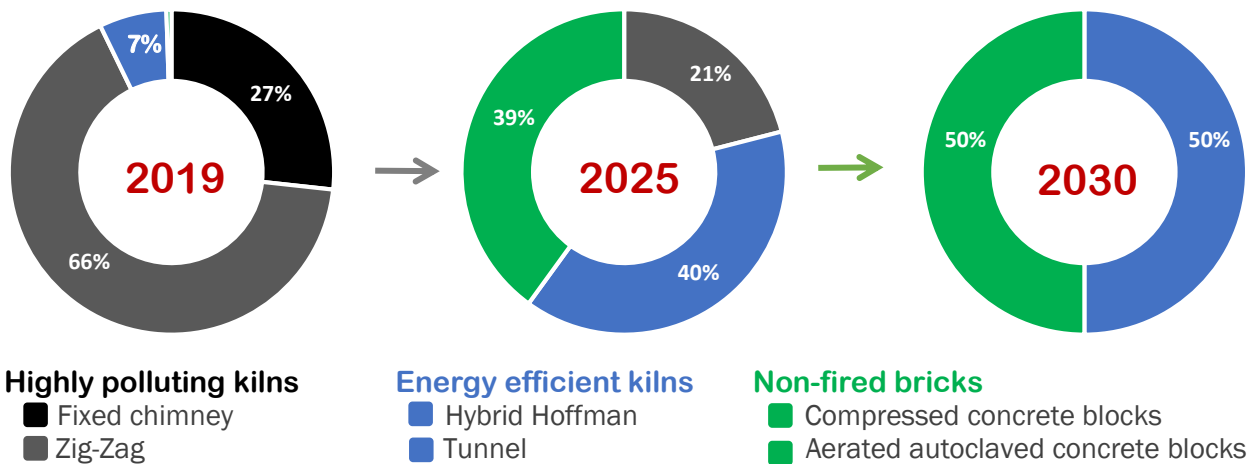
Minimize coal burning



Use renewable raw materials (e.g., sand, river dredge, fly ash, stones, gravel etc.) instead of clay topsoil

HOW TO ACHIEVE THEM

Phase out highly polluting traditional production technology (Fixed Chimney and Zig-Zag Kilns) and invest in modern, energy efficient kilns (Tunnel and Hybrid Hoffman) as well as a range of non-fired (i.e., no coal, therefore the cleanest) production methods, according to the following timeline:



Required Actions:

- 1) Strengthen the policy environment by officially categorizing brick production as an INDUSTRY, streamlining regulations, better enforcement, and incentivizing clean production
- 2) Enhance energy and resource efficiency through R&D and standards development for non-fired bricks, and more use of hollow bricks
- 3) Facilitate access to finance and \$ incentives for energy efficient and non-fired production technologies, and for alternative livelihoods for traditional kiln owners
- 4) Raise public awareness, launch a national brickmaking training center, conduct a raw material mapping study, and establish a raw material testing laboratory