

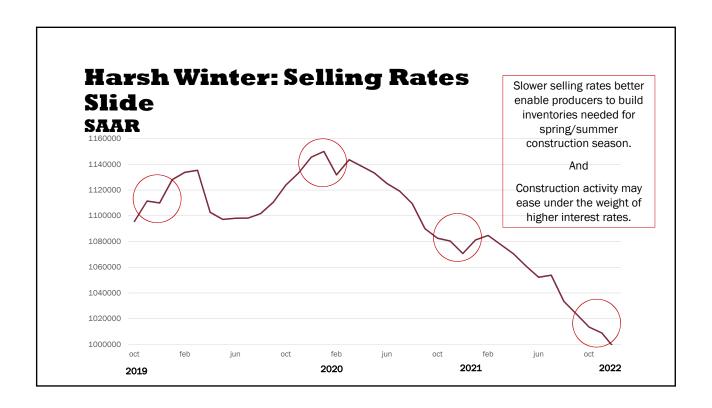
#### The Basics

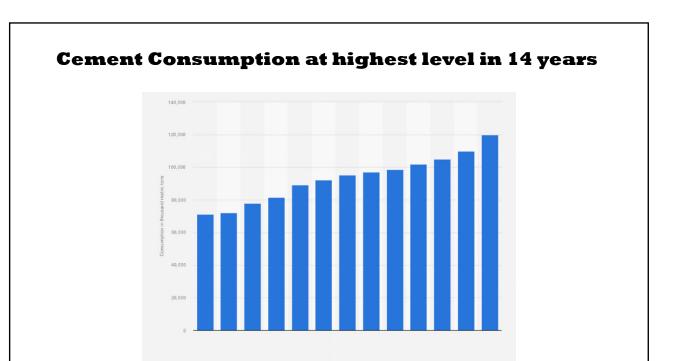
Where cement is in short supply, the reasons are typically fourfold:

- Strong cement demand
- Labor shortages
- Weather conditions that led to a disruption of production,
- Logistic hinderances

## **Demand & Weather: Inventory Impact**

- Some cement companies build inventory during the winter months in preparation peak summer construction season.
- Favorable winter weather conditions translated into strong cement consumption during this period, hindering the ability to build inventories during the past two years.
- Harsh weather conditions this past winter hurt selling rates and may mean better inventory building going into construction season.





#### **Other Concerns Remain**

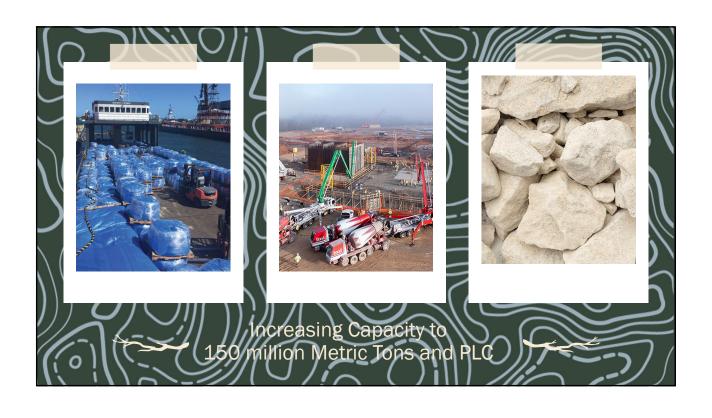
- Capacity utilization can force unexpected shutdowns
- Import supply picked up but flows can be disrupted
  - Turkey is largest cement exporter to US. Earthquake and domestic rebuilding may disrupt this flow to the US. While other import sources may be tapped, it may cause temporary import flow disruptions.
- The harsh weather that swept across the United States, reduced the flow of railcars. In many areas railcar availability slowed the delivery of cement.
- Port congestion has improved but remains a source of shipment delays.
- The delivery of cement to the end consumer is heavily reliant on trucks and their drivers. Drivers are in short supply. This results in a slowing in cement deliveries - nearly all of the movement from terminal to final customer moves via truck.

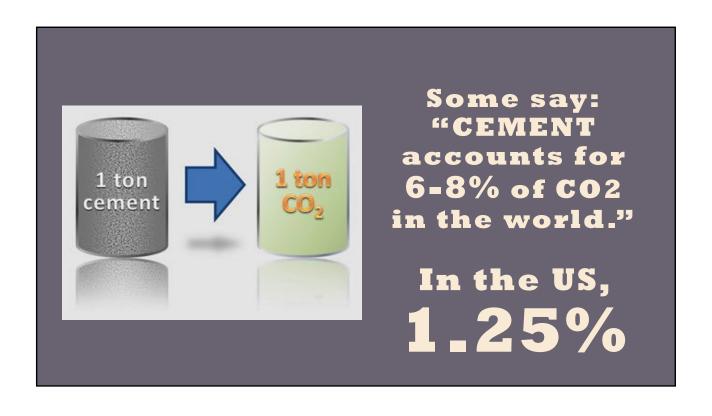
### Our Ability to Feed Biden's Infrastructure

PCA expects the Biden infrastructure plan (current face value) could add 88 MMT to cement consumption distributed over five years. The US Cement Industry is more than capable of meeting these needs

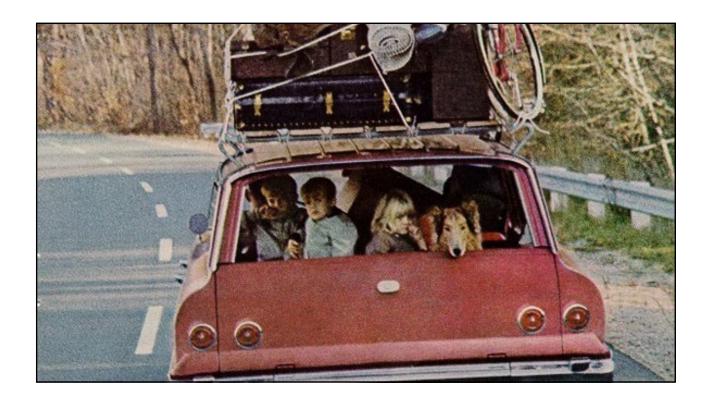
- Domestic Cement Capacity totals 106 MMT.
  - Through existing plant expansions and planned new greenfield plants this capacity will grow.
- Increases in the usage of SCMs and PLC will eventually expand the domestic supply potential of cementitious materials further.
- Import terminal capacity totals 42 MMT.
- Combined, these structural supply realities suggest the industry's ability to meet even the most ambitious infrastructure programs

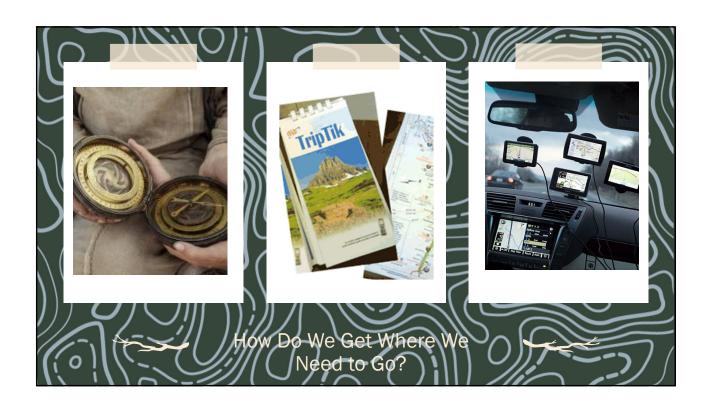


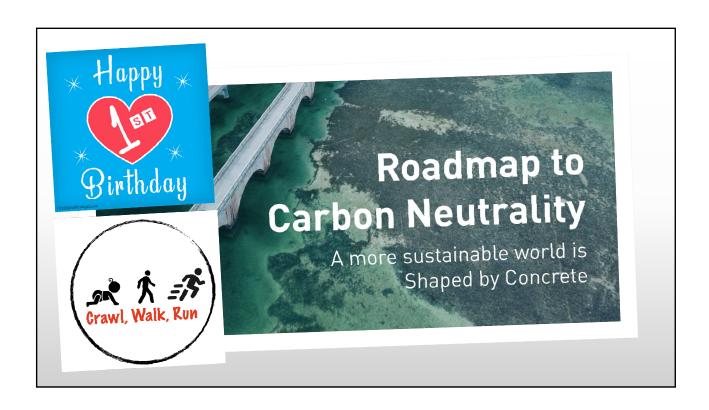




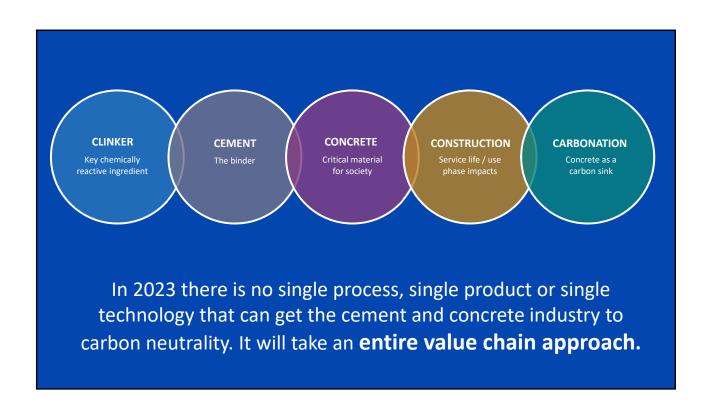


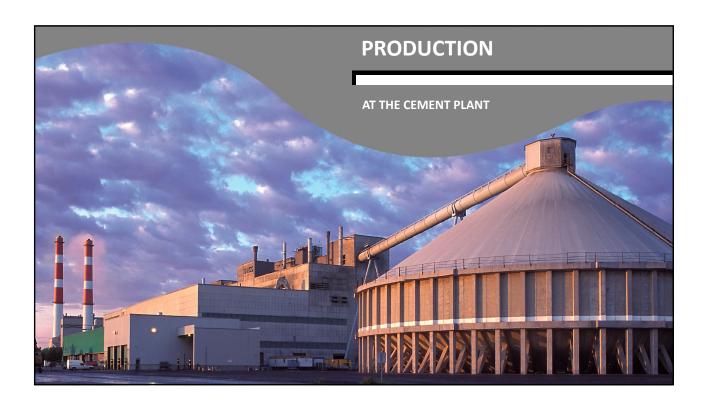






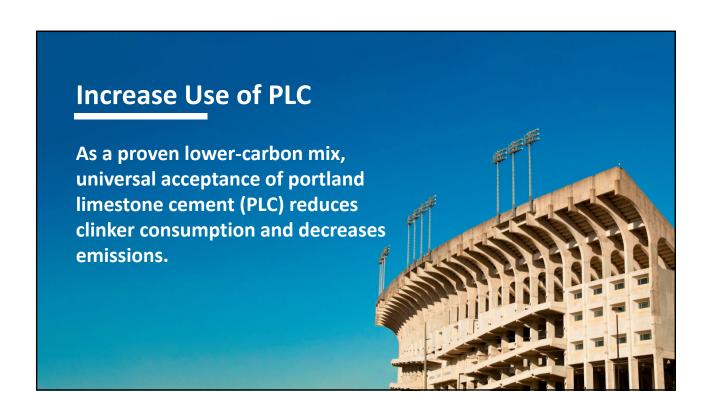




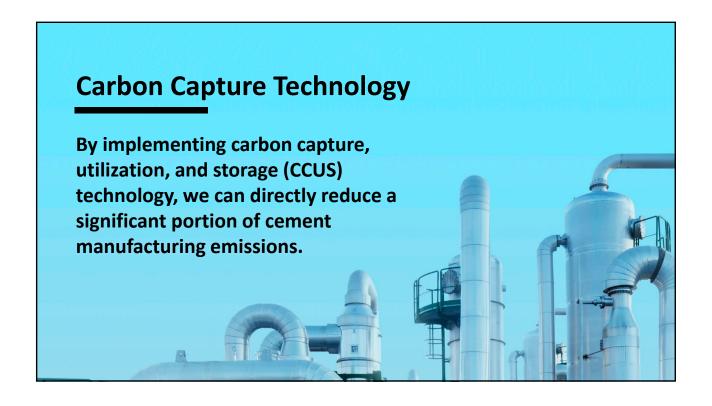


The most energy intensive phase of the value chain is at the cement plant, where two critical materials – clinker and cement – are produced. However, there are opportunities to optimize energy use and shift away from traditional fossil fuels.

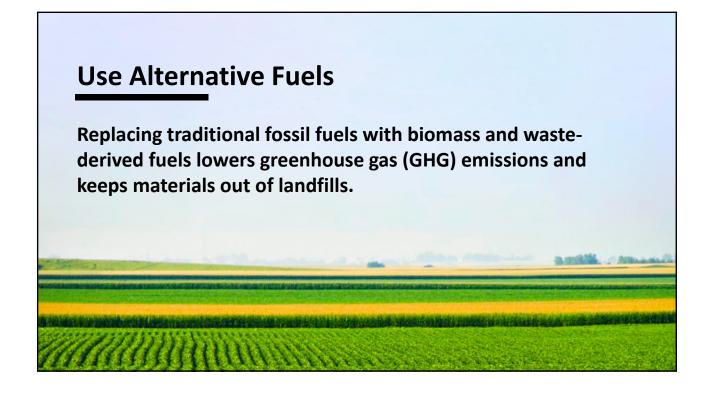










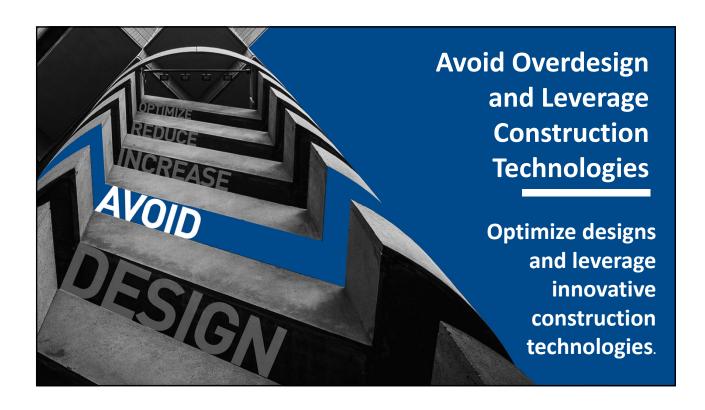


















# Reduce Vehicle Emissions by Improving Fuel Efficiency

Because of its rigidity, concrete pavements enhance the fuel efficiency of vehicles driving over them, reducing vehicle emissions.



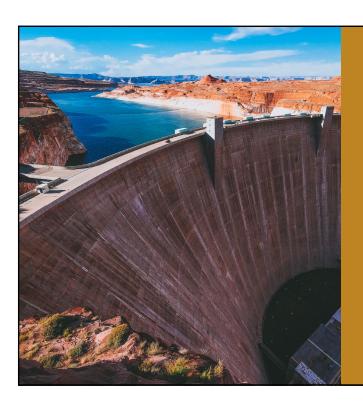
# **Decreased Maintenance**

Due to their durability, concrete structures (buildings, pavements, bridges, dams, etc.) last longer and require less frequent maintenance.

# Recycling

Concrete in place can be 100% recycled, saving both raw materials and the emissions that go with them.





# **Carbon Intake**

Every exposed concrete surface absorbs CO2 and over the course of its service life, a building can reabsorb 10-40% of cement and concrete production emissions.

