



# Proposed Port Melbourne Slag Grinding Facility

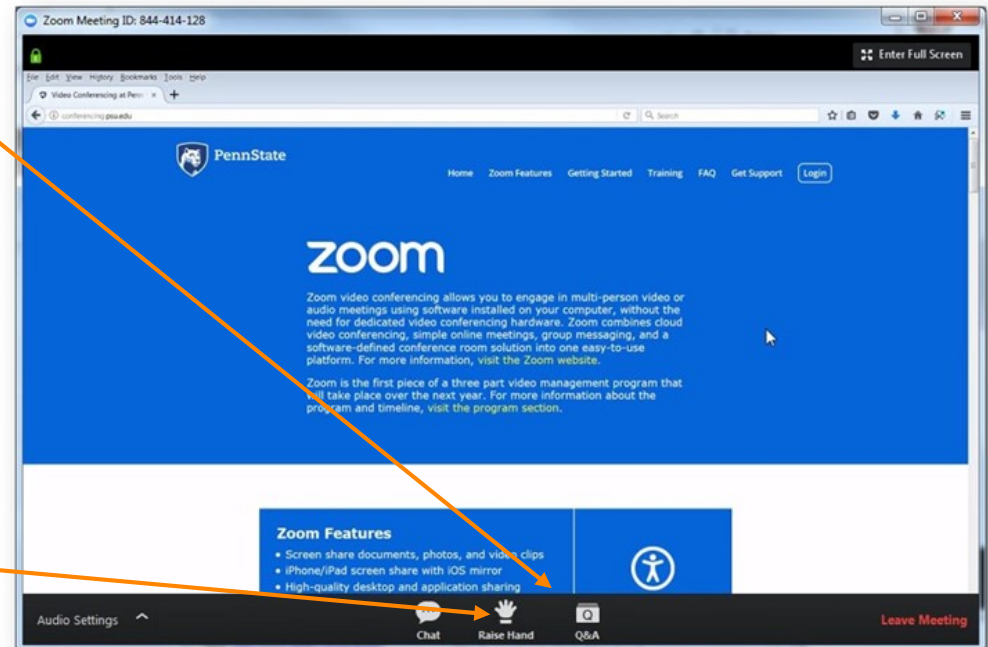
March 2021

# Using Zoom Webinar

This webinar is being recorded.

Want to ask a question?

- **During** the presentation:
  - Type your question into the **Q&A box** at any time.
  - We will seek to answer these at the end of the presentation
- **At the end** of the presentation:
  - Raise your hand and when it is your turn we will unmute your line so you can speak.



# Acknowledgement of Country

**We acknowledge the Traditional Owners of this land. We pay our respects to their Elders, past and present, and the Aboriginal Elders of other communities who may be here today.**

# Agenda

- Todays panellists
- About Cement Australia
- What is GGBFS and how is it made?
- The site and its location
- The proposal
- What are the potential impacts?
- EPA Works Approval process
- Consultation
- Q&A
- Conclusion

# Today's panellists



**Peter Klose**  
Strategic Projects Manager  
Cement Australia



**Wayne Pecar**  
Group Engineering Manager  
Cement Australia



**Diana Bozzetto**  
Principal Sustainability Specialist  
Cement Australia



**Andrew Rodda**  
Director  
Contour Consultants Aust Pty Ltd



**Lucy Kolomanski**  
Senior Planner  
Contour Consultants Aust Pty Ltd

# Cement Australia

- Cement Australia is Australia's Largest Supplier of Cementitious Materials
  - Cement
  - Fly ash
  - Ground Granulated Blast Furnace Slag
- Cementitious Products are used as the 'glue' in concrete
- Cement Australia supplies customers throughout Australia
  - Largest presence in the East and Southern States and Territories
- Manufacture in QLD, NSW and TAS
- Distributed by road and rail in all Eastern States including SA
- Over 700 employees
- Joint Venture privately owned by
  - LafargeHolcim
  - Heidelberg Cement



# What is Granulated Blast Furnace Slag(GBFS)

- GBFS is a by-product of the iron/steel making process
- GBFS is received by ship from steel works for processing into GGBFS



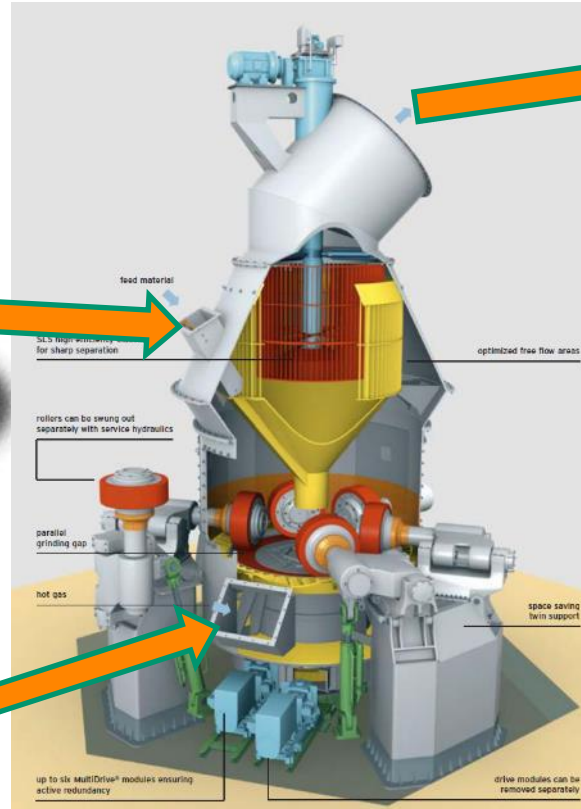


# What is GGBFS? How is it made?

Ground Granulated (GGBFS)



Granulated (GBFS)



Recirculated Hot Air

GGBFS = Ground Granulated Blast Furnace Slag

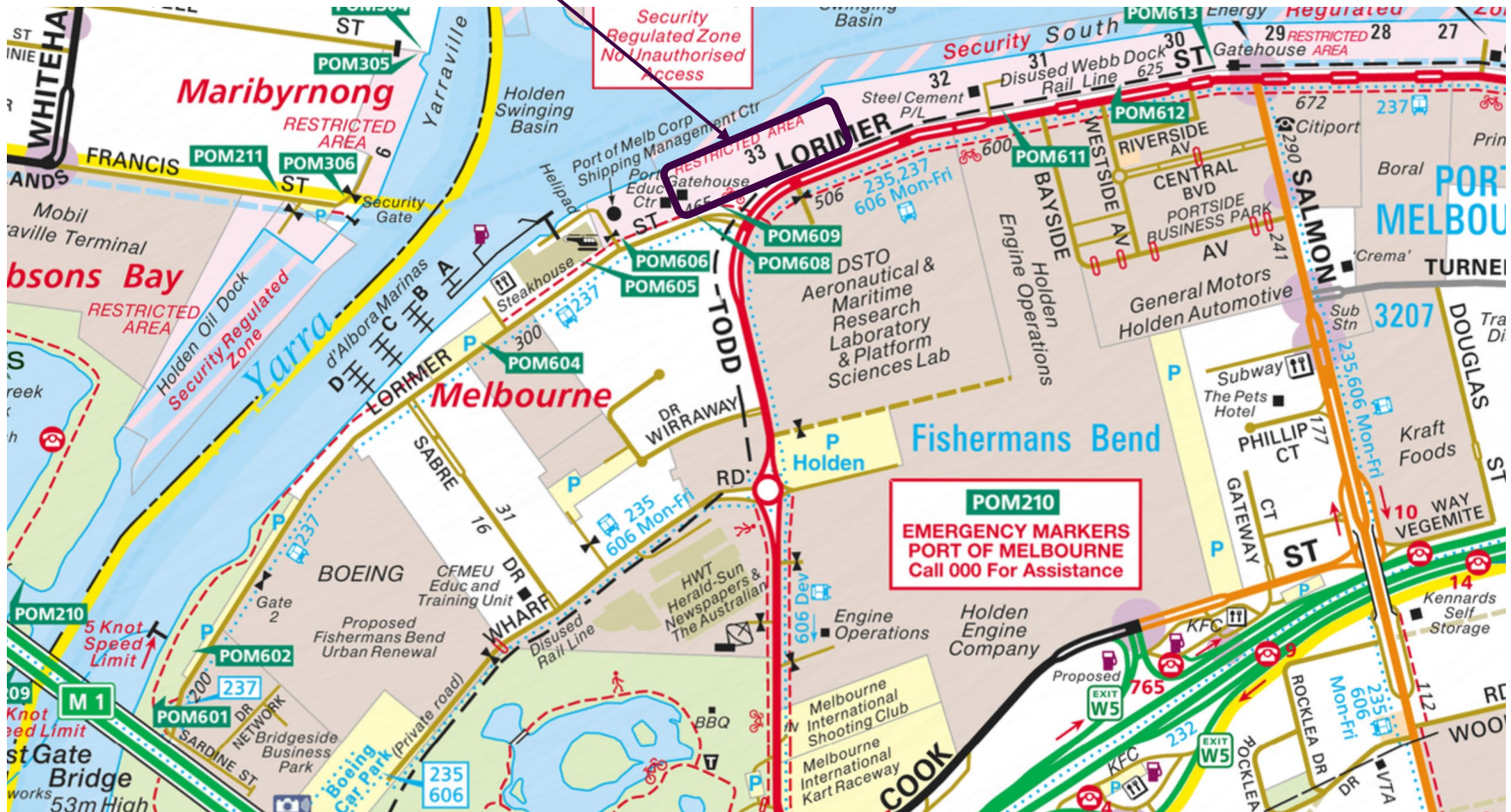


# Benefits of GGBFS

- Reuses a by-product from the iron production process
- Used as a cement replacement up to approximately 70%
- Reduces greenhouse gas emissions by approximately 0.8 tonne for every tonne of cement replaced
  - i.e. for this project a reduction of up to 300,000t of CO2 per year
- Results in more durable concrete
- Specialist uses e.g in Marine, Water Storage, Wind Turbine Foundations applications

# Location Map

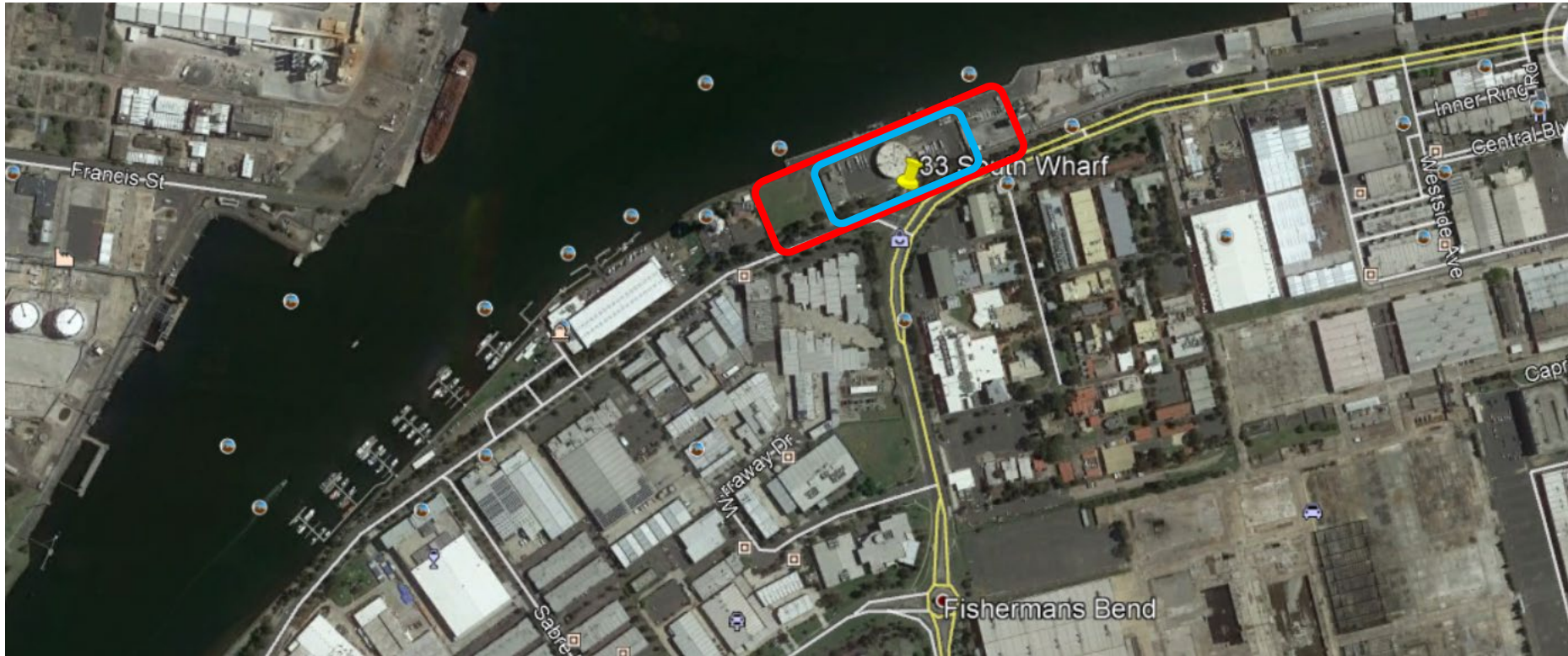
- The Subject Site is located at 465 Lorimer St, Port Melbourne, and occupies parts of Berths 32, 33 and 34 South Wharf.





# About the site

- The site is leased from the Port of Melbourne
- Cement Australia has been operating from part of the site since 1990
- There are a number of pre-existing structures on the site



# About the Proposal

- The proposal is to construct and operate a Slag Grinding Facility including:
  - An enclosed storage Shed which will receive and store Granulated Blast Furnace Slag (GBFS) which is brought in by ship
  - A Vertical Roller Mill for grinding the GBFS into a finished product Ground Slag (GGBFS)
  - A finished product silo and weighbridges
  - Upgrades to the existing facilities including:
    - Wharf for unloading the GBFS
    - Office and Amenities.
    - Truck and vehicle parking.
- The site will continue to operate 7 days a week, 24 hours per day.



# Site Elevation – Artist’s Impression





# Why locate at Port Melbourne?

- Adjacent to a deep water port to allow receipt of raw materials (GBFS) by ship
- Minimise truck movements by
  - Eliminating truck movements from the port to storage
  - Close proximity to major end users
  - Co-location with existing truck fleet parking
- Direct access to major roads including prescribed heavy vehicle transport route.
- In keeping with current and future operating Port activities





# Benefits of the Project?

The Project will

- Support Melbourne's future cementitious product supply; vital to Victoria's construction industry
- Reduce Victoria's carbon emissions with increased use of GGBFS to replace Portland Cement
- Increase local manufacturing and reduce imports
- Continue to support Australian jobs and the Victorian and Australia economy.



# Potential Impacts

- Traffic:
  - Increase in number of ships 12-13 per annum
  - Increase in truck movements over existing by initially ~65 complete movements/day to up to 110 complete movements/day at full production
  - Truck routes will not change
  - A traffic impact assessment is being undertaken to understand potential impacts



# Potential Impacts

- Noise:
  - Increase due to plant operation, truck and ship movements
  - Plant will be designed and operated to minimise noise emissions
- Dust/Air Emissions:
  - Emissions of Nitrous Oxides (NO<sub>x</sub>) and Sulphur Oxides (SO<sub>x</sub>) from a natural gas fired drier.
    - Low inherent emission levels
    - Low NO<sub>x</sub> & SO<sub>x</sub> burner technology will also be used
  - Dust emissions
    - The process operates at negative pressure - draws in air -> not release dust.
    - High efficiency dust collectors used to eliminate dust from any transfer points
- Noise and air emissions assessment studies are being conducted to understand potential impacts.
- The plant will meet all traffic, dust, air and noise criteria required by the Victorian EPA and other regulatory bodies

# Works Approval Process

- EPA upon receipt will review the Works Approval application for completeness
- EPA will give public notice of the Works Approval application and invite submissions
- Interested persons have a specified period to comment/make submissions
- EPA may hold a consultation session with parties who have made submissions
- Following the above, EPA will:
  - Perform its assessment
  - Make its decision, and
  - Publish a copy of the decision.



# Who we are consulting with

## **Cement Australia will continue to consult with:**

- Community, businesses and property owners - our neighbours
- Local elected representatives and MPs
- State Government agencies and the City of Melbourne



# Frequently Asked Questions

- **Question: Will a study on the impact to traffic be undertaken?**
- Answer: Yes a traffic impact assessment study is being undertaken and requirements arising from the assessment will be included in the project development.
- **Question: There seems like there will be a large increase in truck movements**
- Answer: The increase in truck movements is within the design capacity of the local road network.
- **Question: Is granulated blast furnace slag hazardous to persons/environment**
- Answer: GBFS is a stable substance as it has already been through a heating process. The handling and storage of GBFS will always be contained and within enclosed areas.
- **Question: Nearby neighbours who received the information in their letter boxes are often tenants and not the property owners. Will the information be sent to the property owners?**
- Answer: Yes; the owners of the properties have also been sent the information which was distributed to the letter boxes.



# Frequently Asked Questions

- **Question: How many more ship movements are expected**
- Answer: There will be 13 additional ship movements per year at full capacity which represents a small increase to the volume of ships visiting the port of Melbourne.
- **Question: Will the operating hours of the site increase?**
- Answer: No – the site is already operating 24hrs per day 365 days per year.
- **Question: How will noise and air emissions be managed?**
- Answer: Plant and activities will be designed and operated to ensure that it meets EPA requirements.
- **Question: When is it proposed to construct the new facility?**
- Answer: Construction is proposed to commence in 2021 and will take approximately 2 years to complete.

# Questions from the Webinar

- Type questions via the Q&A box in the Zoom toolbar
- Click the 'Raise Hand' function and we will unmute so that you may speak to the presenters directly.



# Next steps

- Your feedback will be considered before lodgement of the Works Approval application.
- A recording of this webinar will be available on the project website <https://www.cementaustralia.com.au/MelbourneSGF>
- We expect to lodge the Works Approval application in the next few months
- Public notice by EPA – your opportunity to review the application documents and make a written submission
- We will continue consultation before and during the exhibition period
- If you have any further questions or comments please contact us:

Email: [ca.compliance@cemaust.com.au](mailto:ca.compliance@cemaust.com.au)

End