An industry perspective on best practice: BlueScope

Matthew Imber

Environment Manager Manufacturing, BlueScope Australia and New Zealand
BlueScope today… a global business

• Steel producer for the domestic Australian, New Zealand and US markets, and leading global building & construction supplier internationally

• 15,000 employees across 17 countries. Top 100 ASX Listed Company

• Key brands include COLORBOND®, ZINCALUME®, LYSAGHT®, BUTLER® and VARCO PRUDEN®

• BlueScope 3rd largest worldwide in coated and painted steel products

• No 1 in custom engineered building solutions
BlueScope in the Illawarra

- The Port Kembla Steelworks (PKSW) is one of Australia’s largest manufacturing facilities:
  - 2.9 million tonnes (mt) of steel production
  - 760 hectare site
  - 3,000 direct employees
  - Indirectly supporting 19,200* jobs in NSW (8900* jobs in the Illawarra)
  - $4.0B* in Gross State Product (GSP). $1.6B* in Gross Regional Product (GRP).

*Source: IRIS Economic Impact Study 2017
Driving best practice

• BlueScope’s NSW Manufacturing operations go beyond mandatory requirements.
  – We aspire to zero harm to our people
  – We are committed to the efficient use of resources, reducing and preventing pollution
  – We strive to be valued corporate citizens in our communities and respect the values and cultural heritage of local people; engaging proactively with our community stakeholders and ensuring any concerns are recorded and investigated
Environmental management

• Our environmental management systems and operational practices provide a framework to:
  – identify, assess and manage environmental risks
  – set performance targets, regularly monitor and publicly report on our progress
  – drive compliance with relevant industry standards and legal requirements
  – engage with all stakeholders to drive continuous improvement and build relationships based on honesty, openness and mutual trust
Working constructively with the EPA

- BlueScope has successfully completed 50 Pollution Reduction Projects (PRPs) since 2006
- Completing more than 180 PRPs since our initial engagement with the EPA in 1976
- Many of these historical PRPs have specifically targeted the reduction of air emissions
- BlueScope currently has 4 active PRPs relating directly to future air emissions improvements
- BlueScope’s compliance performance has improved dramatically and complaints have reduced markedly over the last decade or so
Reducing air emissions

• BlueScope has invested over $600M in environment improvement projects over past 20 years
• Each year approx. $50 million is spent to monitor, maintain and operate pollution control equipment

Sinter Plant Waste Gas Cleaning ($94 million)

Coke side emission control project ($93 million)
Continuous improvement - AAA

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<thead>
<tr>
<th>BUSINESS UNIT: Manufacturing</th>
<th>PLANT AREA/DEPARTMENT:</th>
<th>FINANCE</th>
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<tbody>
<tr>
<td><strong>EMPLOYEE ENGAGEMENT</strong></td>
<td><strong>PROJECT PIPELINE - Project Status</strong></td>
<td><strong>FINANCIAL YEAR</strong></td>
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<tr>
<td>ENGAGEMENT</td>
<td></td>
<td>Financial Year</td>
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<tr>
<td>Involvement: total number of people involved in projects</td>
<td>No of projects</td>
<td>Cost Saving</td>
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<tr>
<td>Engagement: total number of people involved in completed projects</td>
<td>Changed status</td>
<td>1336</td>
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<thead>
<tr>
<th>PROJECT QUALITY: Active Projects</th>
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<tbody>
<tr>
<td>On Time</td>
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<tr>
<td>Late</td>
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<td>Total</td>
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<thead>
<tr>
<th>PROJECT PIPELINE: Number of Projects</th>
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<tbody>
<tr>
<td>ACTIVE</td>
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<tr>
<td>INACTIVE</td>
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<tr>
<td>COMPLETE (FyR)</td>
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<td>COMPLETE (Prior)</td>
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<td>TOTAL</td>
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<tr>
<th>PROJECT PIPELINE: Planned Savings by Project Name</th>
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<tbody>
<tr>
<td>Name</td>
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<tr>
<td>Project Description</td>
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<tr>
<td>Status</td>
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<td>Complete</td>
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<tr>
<th>FINANCE: Total Planned &amp; Actual Savings ($)</th>
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<tr>
<td>Planned Savings</td>
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<td>Actual Savings</td>
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* Active Projects are those with Data other than Complete, Late, On Hold or Cancelled.
AAA improvement projects - AIR

- Reducing material handling and trucking movements
- Optimising road sweeping and water cart operations
- Installation of covered conveyor systems
- Installation of new stockpile sprays
- Significant reductions in iron dumping
- Revegetation
- Improved Monitoring
- Yield improvements
- Etc.
Reductions in air emissions (PKSW)

**Assessable load (t)**

**2006/2007**
- Benzene, 275
- Benzo(a)pyrene, 0.2
- Coarse Particulates, 1,566
- Fine Particulates, 1,169
- Hydrogen Sulfide, 151
- Nitrogen Oxides, 7,720
- Sulphur oxides, 10,174
- Volatile organic compounds, 171

**2014/2015**
- Benzene, 48
- Benzo(a)pyrene, 0.1
- Coarse Particulates, 315
- Fine Particulates, 315
- Hydrogen Sulfide, 67
- Nitrogen Oxides, 5,191
- Sulphur oxides, 6,265
- Volatile organic compounds, 72
‘10 Year Sustainability Achievement Award’ winner
‘Good environmental practice is good business’
Matthew Imber

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BlueScope Australia and New Zealand