ITA Conference 2010

Kevin J. Cain
President, Uniti Titanium

Industrial Titanium Demand Forecast
Global GDP Growth
Source: IMF

- Annual Percentage Change

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>5.0</td>
</tr>
<tr>
<td>2008</td>
<td>4.5</td>
</tr>
<tr>
<td>2009</td>
<td>2.0</td>
</tr>
<tr>
<td>2010</td>
<td>4.5</td>
</tr>
<tr>
<td>2011</td>
<td>3.0</td>
</tr>
<tr>
<td>2012</td>
<td>3.5</td>
</tr>
<tr>
<td>2013</td>
<td>4.0</td>
</tr>
</tbody>
</table>
Titanium markets influenced by consumer demand

- Chemical processing
  - Chlorine / Caustic Soda
  - Urea production
  - PTA (pure terephthalic acid) / PET (polyethylene terephthalate)

- Metallurgical plant construction
  - Nickel
  - Gold, Copper and Uranium

- Other consumer related markets
  - Sporting goods, automotive, architecture
  - Medical
Consumer Markets

- Chemical Processing
- Automotive
- Metallurgy
- Chlor-alkali
- Architecture
- Other

PFHE Anodes Forgings Autoclave Shell and Tube Heat Exchangers

World Energy Demand by Source

Source: Exxon Mobil

- Oil: 36%
- Coal: 24%
- Natural Gas: 21%
- Wood/Waste: 10%
- Nuclear: 6%
- Hydropower: 2%
- Wind, Solar, Biofuels, Geothermal: 1%
Infrastructure Markets

• Power generation
  – Nuclear Energy
  – Natural Gas
    • LNG
Infrastructure Markets

• Power generation
  – Nuclear Energy
  – Natural Gas
    • LNG
    • Shale

• Desalination
Infrastructure Markets

- Power generation
  - Nuclear Energy
  - Natural Gas
    - LNG
    - Shale
- Desalination
Industrial Market, History & Forecast

- Chemical Processing
- Power
- Automotive
- Metallurgy
- Oil & Gas
- Chlor-alkali
- Desalination
- Architecture
- Shipbuilding
- Other

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Thank you

Kevin J. Cain

President, Uniti Titanium