



Environmental Management & Reporting

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Agenda

- Who we are
- What's driving Environmental & Sustainability Reporting?
- 10 Tips for building an effective Data Management Framework

Who We Are

CarbonSystems is a global provider of energy and carbon accounting software. Our technology helps companies manage their environmental compliance and performance.

The insight and intelligence we provide clients, helps them to operate more efficiently by driving cost savings in their use of energy, fuel, gas, water, waste, and other environmental metrics.

.....”**Business Intelligence for the Low Carbon Economy**”

CarbonSystem's Clients



AIRSERVICES AUSTRALIA



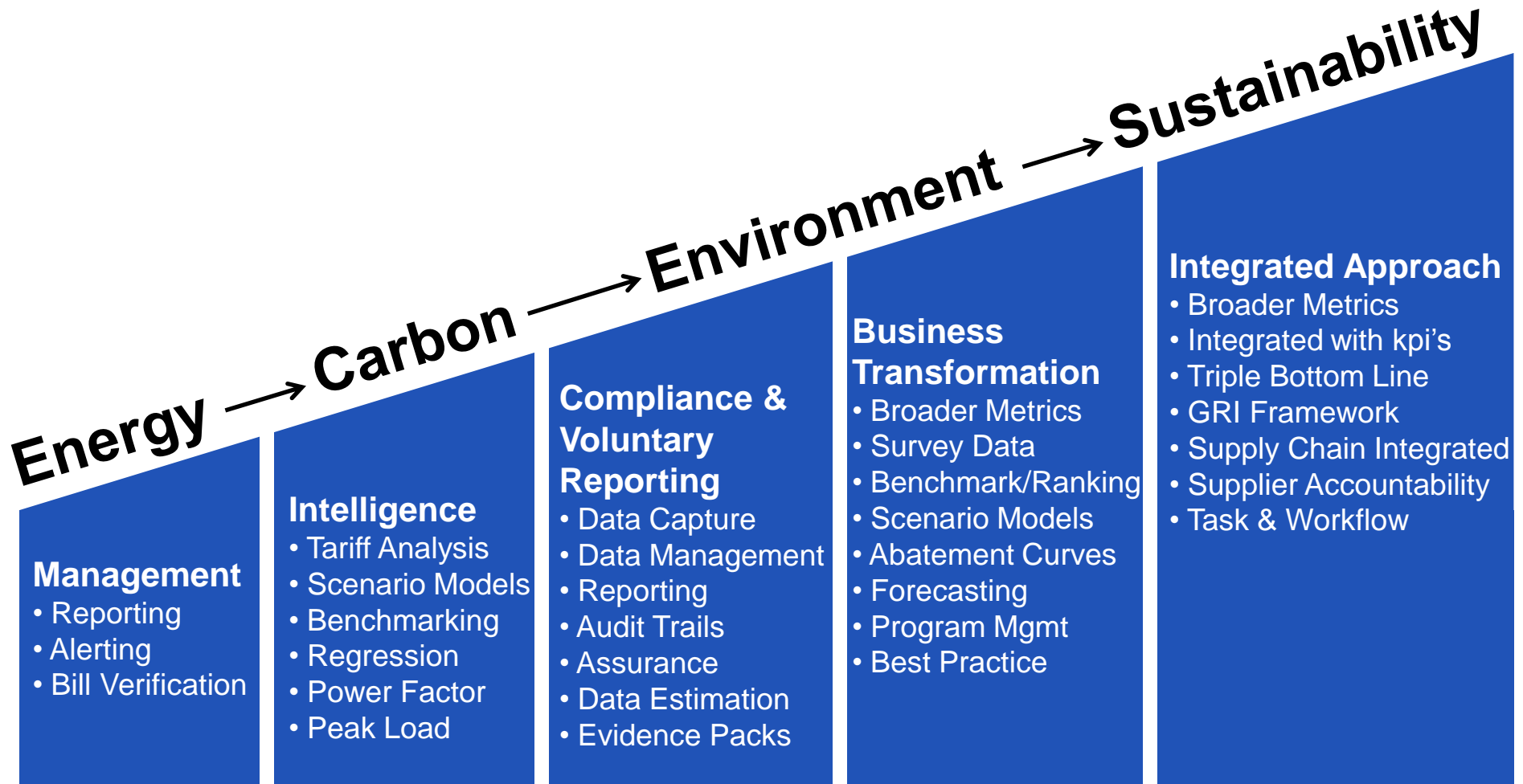
Fortescue
The New Force in Iron Ore



What's Driving the Need for Reporting

- Compliance driven carbon emissions reporting and trading schemes
 - Australia (NGERS)
 - United Kingdom (CRC)
 - United States (EPA GHG Reporting)
- Rising Energy Costs
- Cost Saving opportunities – energy efficiency
- Competitive advantage
- Corporate Social Responsibility – stakeholder pressures

The Sustainability Journey



Stakeholder Demands



global
carbon**systems**

The Healthcare Sector

What's driving measurement & reporting in Healthcare?

- Rising energy costs
- Energy and Water efficiency opportunities
- Corporate Social Responsibility

Challenges

- Developing an accurate baseline measurement of performance
- Timely and accurate ongoing performance measurement

“YOU CAN’T MANAGE WHAT YOU DON’T MEASURE”

10 Tips for Developing an effective Data Management Framework

1. Get the right Framework in place

People

- Knowledge
- Insight

Process

- Consistency of outcome
- Redundancy

Technology

- Reduces time and cost
- Scalability

2. Project Ownership & Leadership

- Executive sponsorship is key
- Visibility to the board is preferable
- This should ideally not be viewed as a “green project”, but a business initiative
- Accountability for successful completion is critical – particularly in voluntary reporting organisations

3. Build a Balanced Project Team

- Key Stakeholder Groups to include:
 - Property/Facilities
 - Energy Management
 - Finance/Procurement
 - Sustainability
 - Executive Management

4. Focus on the future first



TODAY

1

- Locations
- Consumption

2

Future Data Capture (Ongoing)



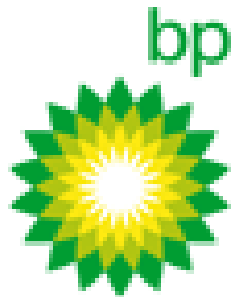
Historical Data Capture (One-off)

3



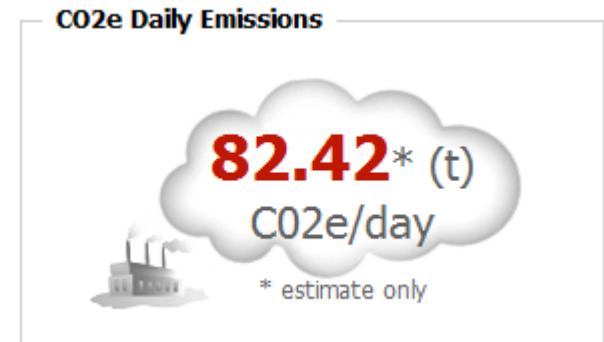
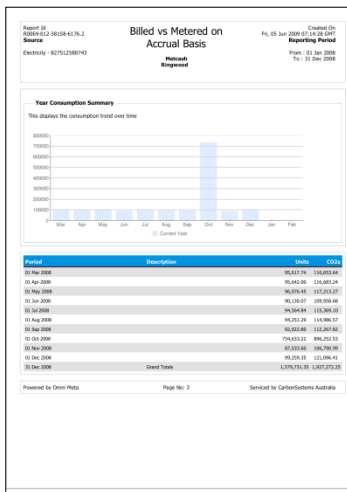
5. Leverage Your Suppliers

- Mandate quality reporting standards as part of supply arrangements – customised if required
- Pressure Utility suppliers via the account management channel



6. Understand Required Reporting Outputs Early

- Canvass stakeholder groups to understand their reporting requirements
- Create a hierarchy of reporting that is end user relevant
- Automate reporting to be sent to relevant users – don't rely on them to login
- Try and incorporate sustainability into current scorecard metrics



7. Install Metering with Infrastructure Upgrades

- Utility (Elec, Gas, Water) smart metering is the only way to get a granular view of consumption at an infrastructure level
- Metering is highly cost effective
- Ensure that any major plant/equipment upgrade includes a meter to verify consumption, hence savings and ROI



8. Understand Audit and Assurance Requirements

- Will your sustainability reporting be subject to audit?
- Engage auditors early to understand what controls they would like to see in your data management and reporting framework
- Collect multiple sources of the same data for verification e.g. Electricity accounts & meters
- Try and capture financial data in your sustainability reporting system – reconcile with Financial System

9. Leverage Existing Skills and Resources

- Most organisations have significant existing capability:
 - Bill processing – capture consumption data
 - Business Analysts
 - IT project management
 - Engineering (energy analysis)

10. Focus on Qualitative Data as well as Quantitative

- Consumption metrics are only half the story:
 - Building surveys e.g. Water saving devices
 - KPI data e.g. patient bed days
 - Type of use, floor area etc

Focus Areas Next 180 Days

Thank You