# PI Integrator for Business Analytics, or as I like to call it, 'Bunny Catcher'

Presented by Martin Stanyon MEng



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# We are an energy and services company

Everything we do is focused on satisfying the changing needs of our customers













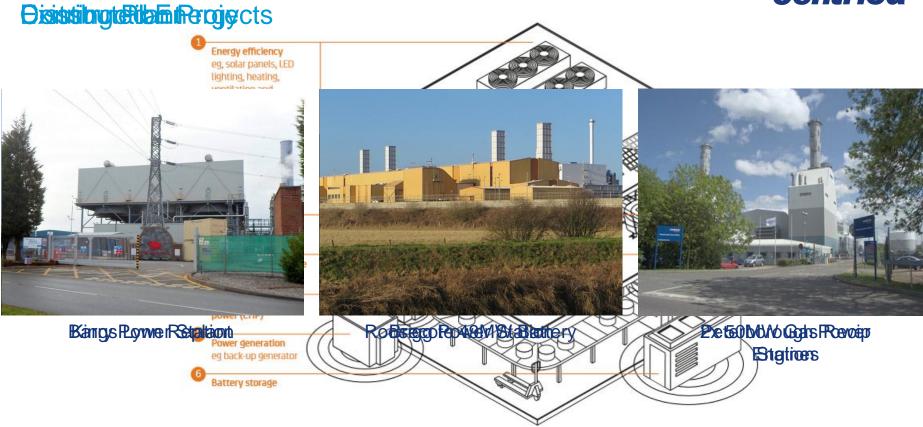








#### **Centrica Business Solutions**



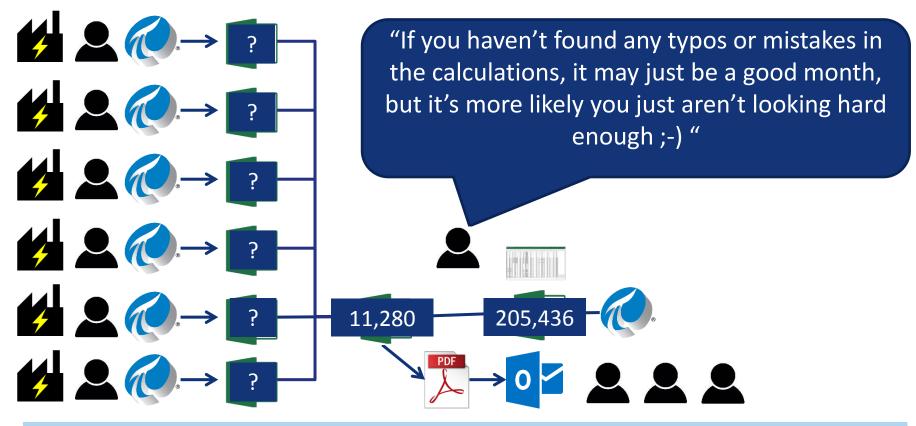
The Challenge

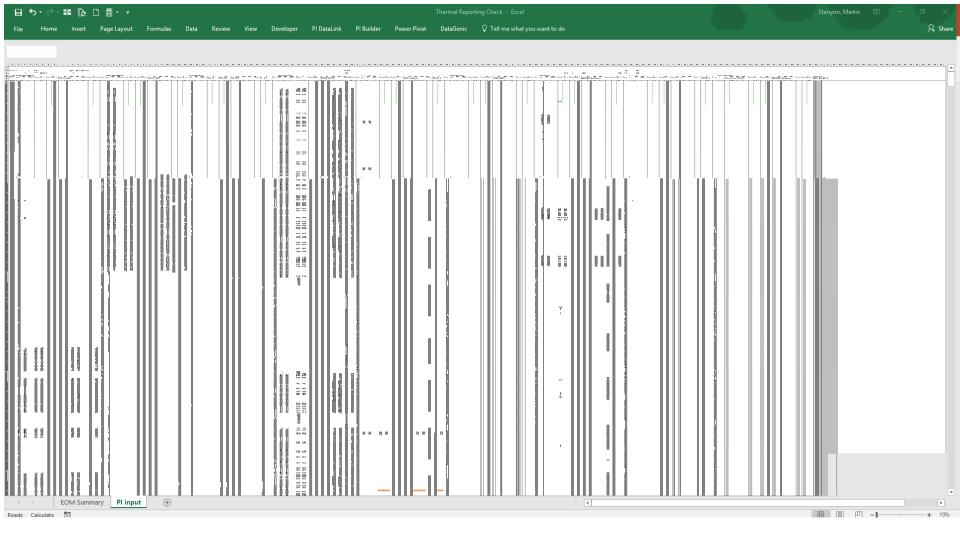


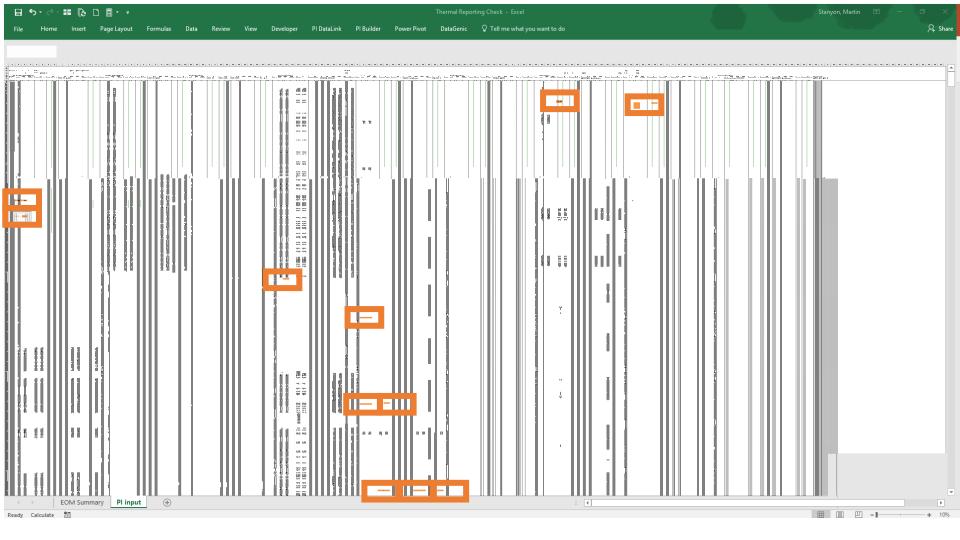


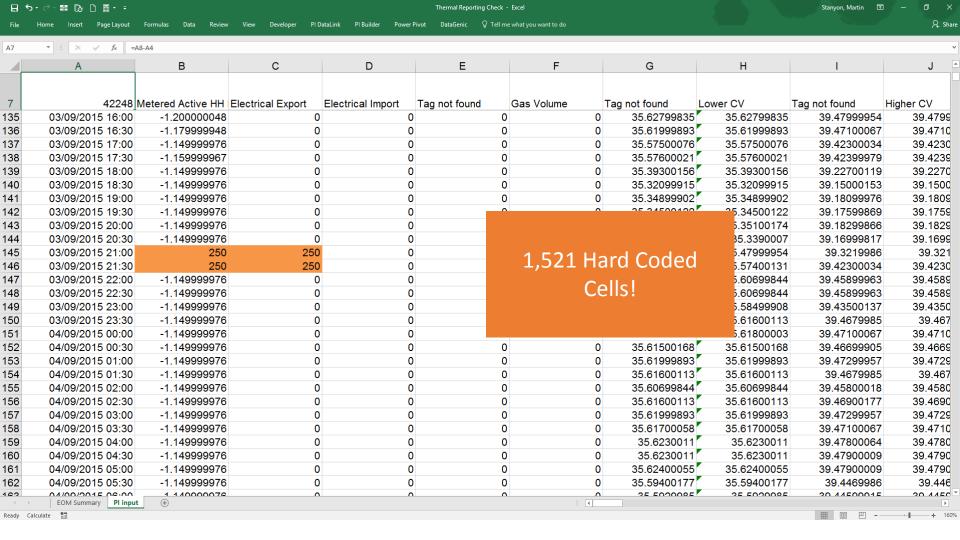
### The Challenge – Monthly Reporting







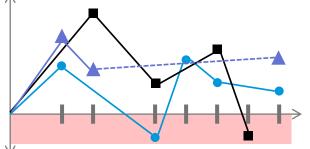




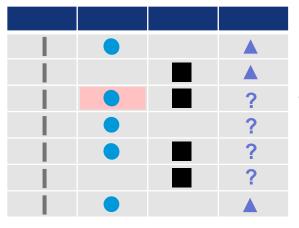
#### That's not all

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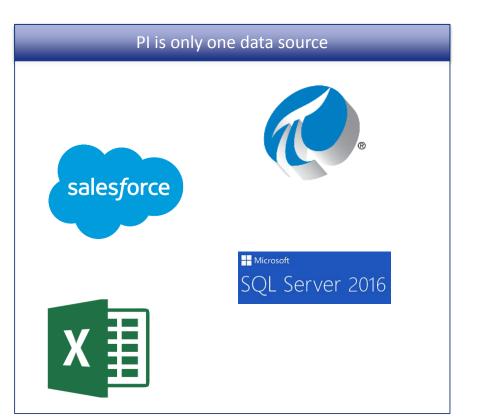
Uneven spacing
Out-of-range values
Different start times
Communication failure
and more...



#### **Challenge**

Join operational data with relational data

#### That's not all



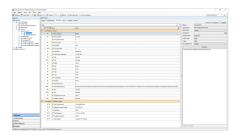


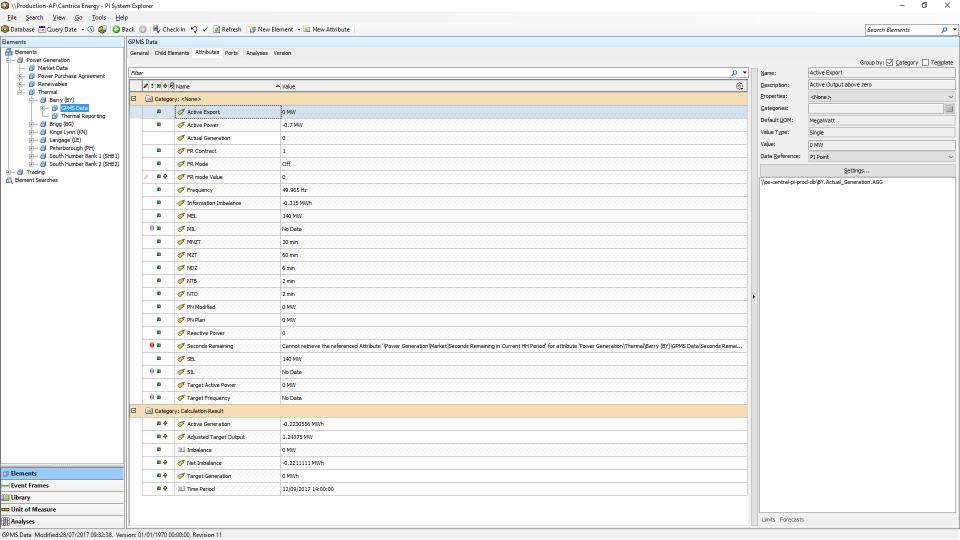
# The Solution – Data Preparation



Source

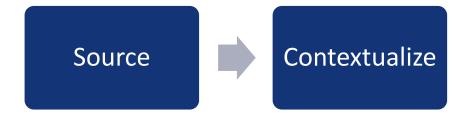




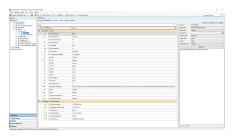


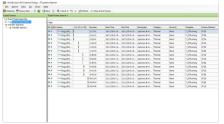
### The Solution – Data Preparation

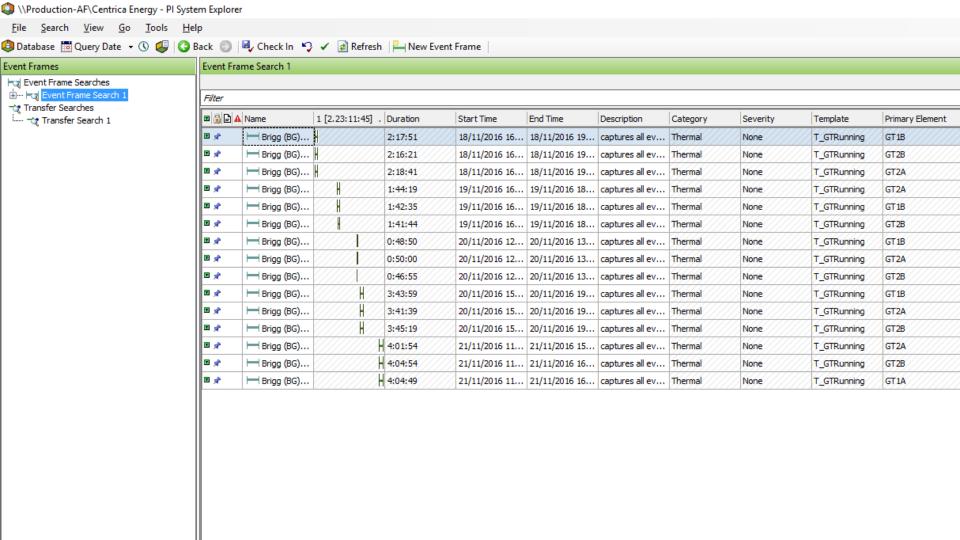












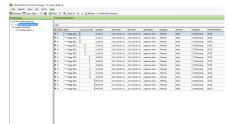
#### The Solution – Data Preparation

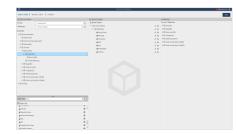


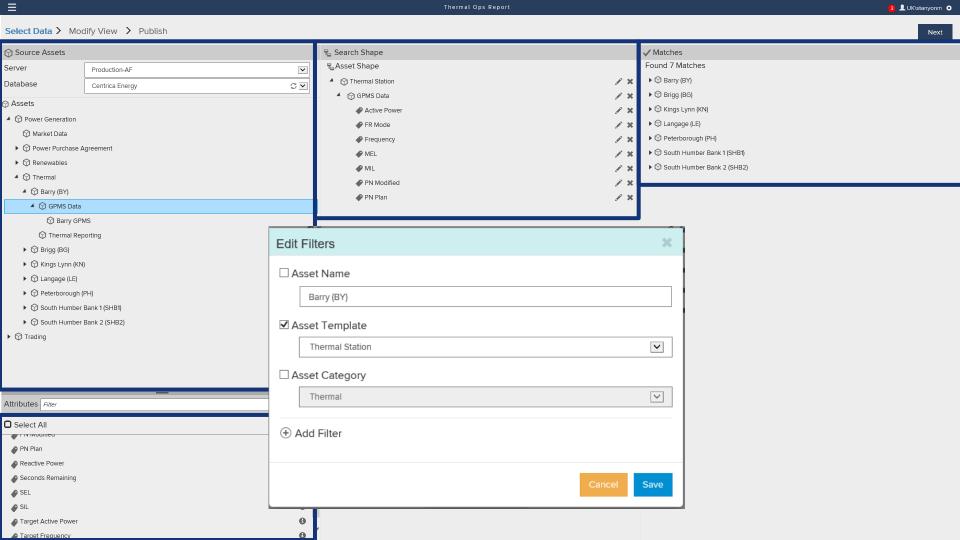


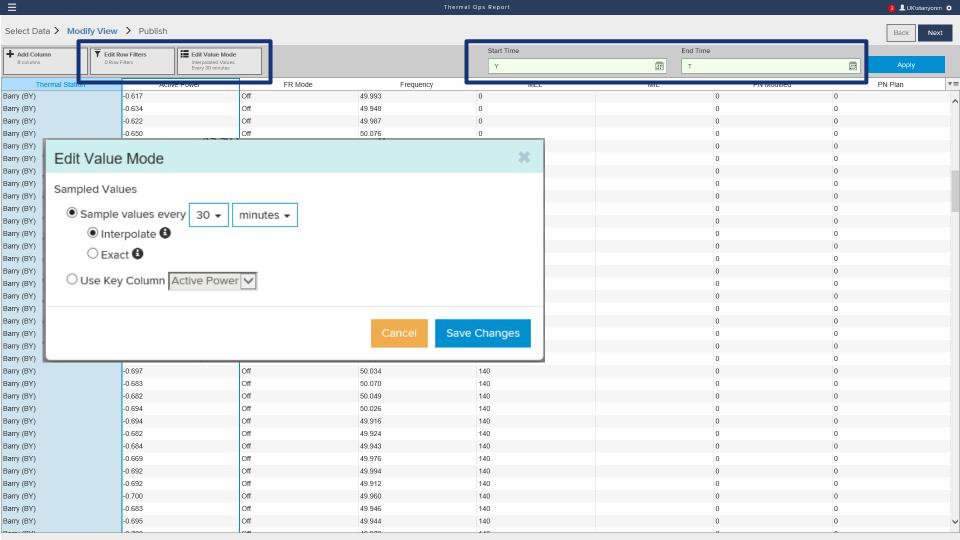






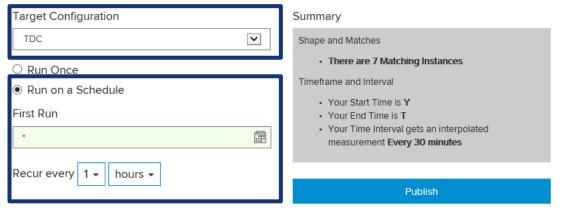






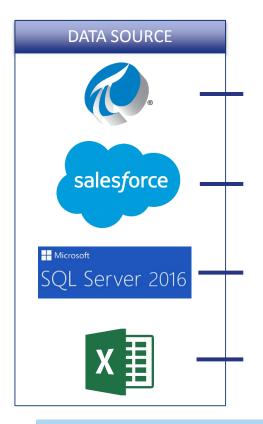


Select Data > Modify View > Publish



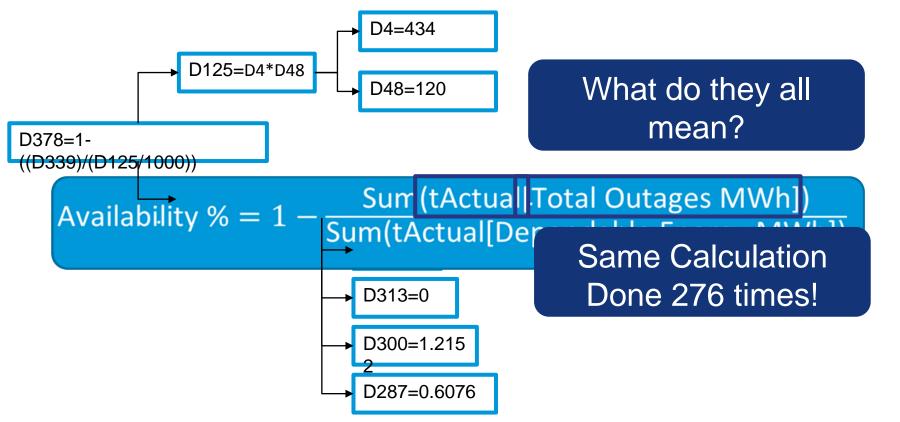
# The Solution – Bringing it all together



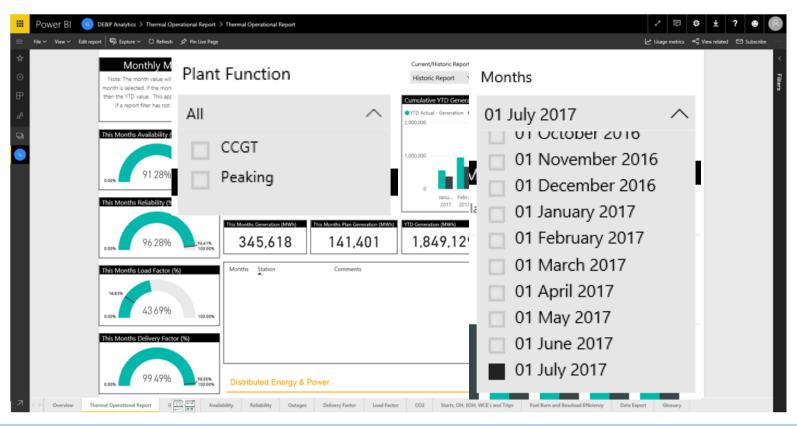


#### What about the calculations?



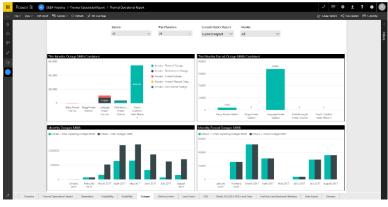


#### The Solution – Output



### The Solution – Output

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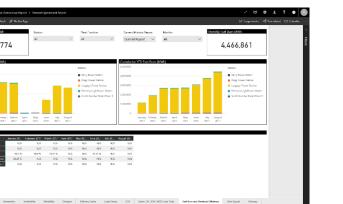


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Dring Power Station

90.4% (6.1% 0.00 840 97.17% 040 840 8/A 8/A 9/A 9/A 844 844 844 844 8/A 8/A 9/A 9/A 846 844 844

Peterborough Power State



**Delivery Factor** 





Fuel Burn and

Summary

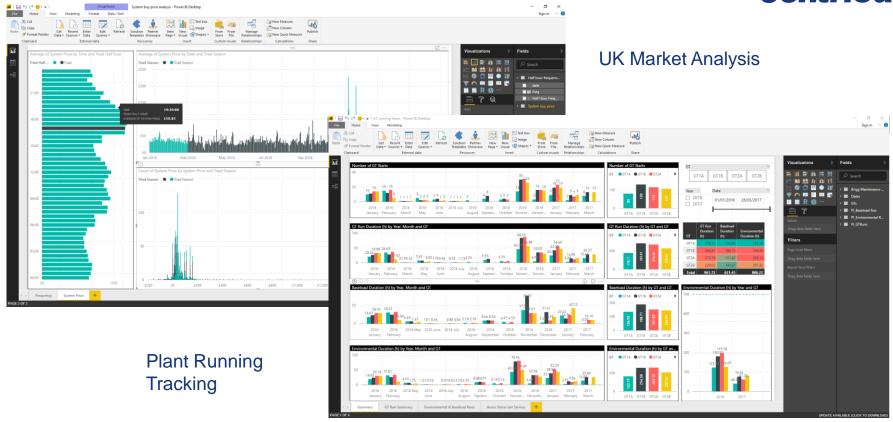
Outage

OWER B 0 DEAD Assisting > Disensed Operational Report > Disensed Operational Report

659.774

Fle× Vox× Etherat Scholer O Reliab & Ridle Rig

#### What's Next?



#### **Summary**

#### COMPANY and GOAL

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We are an energy and services company and one of our strategic goals is Cost Efficiency & **Simplification** 



#### **CHALLENGE**

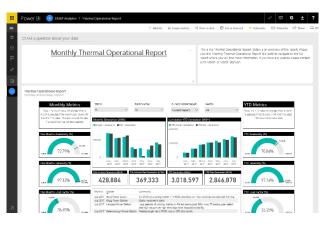
An aging reporting process with confused ownership of data took too long to produce and quality was questionable



SOLUTION

Give the data context using Asset Framework, find it using Event Frames and prepare using Integrators

- ZERO lines of custom coding
- · New assets included and disposed of assets removed automatically



#### **RESULTS**

Vastly reduced time spent preparing reports

- · We now have a simple and efficient process for operational reporting
- Allowing the Data & Analytics team to do more analytics and less data preparation

#### **Martin Stanyon**

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Centrica

#### **Questions**

Please wait for the microphone before asking your questions

State your name & company

#### Please remember to...

Complete the Online Survey for this session



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감사합니다

Danke

谢谢

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado