## **Hydrocarbon** Accounting. Reimagined

AN EFFECTIVE HYDROCARBON ACCOUNTING (HCA) SOLUTION SHOULD BE DRIVEN BY THE NEEDS OF THE BUSINESS BUT ALL TOO OFTEN ITS THE BUSINESS THAT HAS TO WORK AROUND THE SOFTWARE. CHANGE YOUR RELATIONSHIP WITH SOFTWARE WITH ENERGYSYS' WORLD-BEATING AGILE HCA SOLUTION.



THE RIGHT HCA SOLUTION SHOULD:



requirements of the production asset(s), without specialist changes being required.

Accommodate the specific accounting and technical



reporting through automation.

Improve the efficiency of the HCA processes and



Remain current with technological advances, and new features, offered by the vendor so that it does not become out-of-date.



Provide a sound basis for audits.



effectively. For example, the addition of assets, demands for new or different data and reports, changes to allocation philosophy, and new metering.

Reduce and/or remove manual intervention or

Accommodate future change efficiently and



manipulation of production data.



The objective of oil and gas companies is to maximise the value achieved from their increasingly complex assets, and to meet the demands of shareholders, partners and national governments. To achieve this, they need timely and accurate production data that can support performance analysis

Energy companies operate and manage a wide variety of assets, including onshore and offshore wells, platforms, pipelines, and LNG plant and

and decision making. They need to be able to perform asset-specific calculations such as the allocation of sold quantities to individual producing entities, accounting for different fluid qualities and tracking ownership of product. They must be able to forecast production and revenues in order to The problem is complex. The topology, the products, the processing, the commercial rules, and the metering, are all different from one asset to the next. Not only that, but this information can be subject to regular change. Customers can change the equipment and process flows in their asset, and

acquisition or divestment can require changes in operating and commercial agreements. New partners and new commercial models are common, and the associated agreements are subject to regular change. Further, reporting

calculations, would be managed by a single software platform that could adapt organically to support the business as it grew. But traditional software these products can deliver some of what is needed, but only at high cost and result is a brittle, inflexible data management infrastructure that is a burden to the organisation and restricts their options for growth.

### information easily and in a timely fashion.

YOU WANT:

adding information such as emissions data.



Security, ensuring that people only have access to the operations and data that they should have.

Auditability, in that every change, whether to

traceable back to an identified individual or

Visibility, in that the operator and their customers must be able to view and access appropriate



process. Transparency, in that there should be no "black

boxes", and it should be clear how data is being

Extensibility, so that the accommodation of change

handled and how calculations are done.

calculations or to data, is recorded, versioned, and



quickly and easily.

THE SOLUTION

Platform.

Beginning with hydrocarbon accounting and production reporting, the platform allows customers and partners to deliver solutions as configuration on a general, standard low-code platform. The platform has unlimited potential, though, and it has been applied to address a broad spectrum of other technical data management problems in the energy sector, including planning and forecasting, performance analysis, production optimisation, pipeline management, and tracking and reporting greenhouse gas emissions.

in operations or integration can be supported



The EnergySys Cloud Platform is the perfect solution for your agile hydrocarbon accounting and reporting needs. It is a revolution in the marketplace and built using leading-edge cloud technologies, designed from the ground up to be highly scalable, and highly secure.

It can provide a solid foundation no matter how many assets you have, or what type they are. There is no other enterprise system that can be delivered as quickly, or with as little services content, as the EnergySys

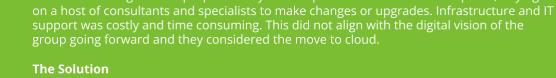
The Platform provides a simple, fast, cost-effective way to create secure, enterprise-grade cloud applications that exactly meet the business needs. Custom solutions without software customisation. Business users can configure entire solutions, and change them in the future, without any vendor or thirdparty assistance. There's no need for specialist programming skills or IT resources, and no on-premises kit

to manage. If they need extra resources for this work, or are seeking best practices, they can turn to a growing list of experienced Partners to help.

The Platform provides the end user with enormous flexibility to do the jobs they need to do, to support the specific requirements of their assets, and to accommodate change whenever required.

SUPERMAJOR REALISES MAJOR EFFICIENCIES WITH MOVE TO THE CLOUD

### **ENERGYSYS IN ACTION:**



Having monitored successful EnergySys implementations at some of their subsidiaries, the

wider group decided to deploy the EnergySys Cloud Platform globally. Initially rolling out across 3 assets, these deployments represent a major step in the bp's journey from legacy on-premises solutions to advanced cloud-native platforms. It is also significant in that the configuration was carried out in its entirety by an internal managed team from bp with

Following a Net Zero pledge and ambitious cost reduction targets, bp decided to re-



"EnergySys is a nimble database, which can grow and change as

The Outcome

The Challenge

Implementing EnergySys to deliver Hydrocarbon Accounting for their assets has seen an increased efficiency in executing the business processes, improved application supportability and a reduction in the overall cost of ownership of the HCA system. The client's team were impressed with EnergySys' capabilities and the simplicity of how it could be configured to deliver their requirements, including process automation and system auditability. Going forward, bp see the increased adoption of low-code development platforms like EnergySys as the next key enabler to their reinvention. The self-implementation of EnergySys across their assets is seen, not only as a brilliant demonstration of the platform's

This is an ongoing project that will see the Supermajor continue to move to cloud from

legacy on-premise HCA systems on various assets over the coming years.

application, using leading-edge cloud technologies, designed from the ground up to be highly scalable,

Our focus is not on generating man-time services, but on delivering the most innovative and highest

many assets you have, or what type they are. There is no other enterprise system that can be delivered as quickly, or with as little services content, as the

The EnergySys Platform is a cloud-native

# WHY ENERGYSYS?

### quality technology for our customers and continuing to deliver substantial new features year after year. It can provide a solid foundation no matter how

EnergySys Platform.

and highly secure.



and therefore upgrades and new features can be delivered without impact on the client-specific aspects of the system. All clients will always be on the latest release.

The EnergySys Platform is unique in its ability to be configured with the broadest possible range of asset types, with allocation logic of arbitrary complexity,

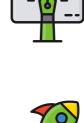
Every asset can have its own individual logic and

requirements, or even the personal preferences, of the asset and its operators. In addition, it's easy to add entirely new applications, and still be on a single

all on a single standard software release.

workflows, configured to suit the specific

EnergySys stores its applications as data, not code,



standard platform. The result is a software platform that was built from the ground up to allow users to configure their applications themselves, or employ any trusted third party, using non-specialist tools.



HCA Team Lead, TAOA Bratani

any other tool.

What we've done and how quickly we have done it, would not have been possible with

### After implementing two systems, one to replace a major Enterprise architecture, I can tell you EnergySys jumps the curve when it comes to solving challenges. This along

WHAT DO OUR USERS SAY?

with the "no code" concept makes adapting

We saw EnergySys as an ideal solution because its

very quick and inexpensive.

**Production Measurement and** Allocation Team Leader, bp

to ever changing operational requirements

**UK Business Systems Team Lead, Harbour Energy** 

architecture provides much more flexibility to accommodate change than previous systems. It allows us to layer on extra functionality whilst still allowing upgrades to the underlying base code.

> After a long period of evaluation, we selected EnergySys as the right tool for us. We were finding it increasingly difficult to make changes quickly and easily with our old system, and we were faced with prohibitive upgrade costs. We were able to deliver a modern solution built on the EnergySys Cloud for a comparable cost to an upgrade of our old system. **Project Manager, Santos**

