bp full year & fourth quarter 2021 financial results & update on strategic progress
Good morning, everyone, and thank you for joining Bernard, Murray and I today.
We have a slightly extended presentation today.

In a moment I’ll hand over to Bernard to introduce and cover the full year highlights, and Murray will take you through our fourth quarter results.

Then we will turn to strategy, and Bernard and Murray will update you on our progress and financial frame. Following that we’ll make sure we leave plenty of time for your questions.
Cautionary statement

In order to avoid the ‘safe harbor’ provisions of the United States Private Securities Litigation Reform Act of 1995 (the "PSLRA") and the general literacy of cautionary statements, it is providing the following cautionary statement. The discussion in this result announcement contains certain forward-looking statements, projections and other non-historical statements, that “forward-looking” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including but not limited to the plans and objectives of BP with respect to these items. These statements may generally, but not always, be identified by the use of such words as "anticipate", "believe", "could", "estimate", "expect", "forecast", "guideline", "intend", "is expected", "may", "plan", "project", "potential", "predict", "target", "believe”, "could”, “estimate”, “expect”, “forecast”, “guideline”, “intend”, “is expected”, “may”, “plan”, “project”, “potential”, “predict”, “target”, “will”, “would”, “endeavour”, “intend”, “estimate”, “project”, “plan”, “may”, “could”, “should”, “would” and “will”, and other similar expressions, including references to assumptions. Such forward-looking statements, projections and other non-historical statements involve known and unknown risks, uncertainties and other factors that could cause actual results, levels of activity, performance or achievements to differ materially from the results, levels of activity, performance or achievements expressed or implied by such forward-looking statements, projections and other non-historical statements. These known and unknown risks, uncertainties and other factors include those described in our annual report on Form 20-F and other reports and statements made from time to time by BP. There can be no assurance that the actual results, levels of activity, performance or achievements of BP will not be materially different from those expressed or implied by such forward-looking statements, projections and other non-historical statements. In particular, the following, among other statements, are all forward-looking in nature.

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Furthermore, the foregoing cautionary statement applies to all forward-looking statements, projections and other non-historical statements, whether made by BP or others, including statements made by, or on behalf of, BP’s management, directors, employees or representatives, and should be read in connection with all other relevant information. In light of these risks, uncertainties and assumptions, the results set forth in this announcement or described elsewhere may not be indicative of future results. The actual results of operations of BP and the performance of BP’s asset base may differ materially from those expressed or implied by such forward-looking statements, projections and other non-historical statements.

Before we begin, I’d like to draw your attention to the cautionary statement included in our presentation slide deck. During today’s presentation, we will make forward-looking statements, including those that refer to our estimates, plans, targets, aims and expectations. Actual results and outcomes could differ materially due to factors noted in our cautionary statement and in our UK and SEC filings. Please refer to these filings, which are available on our website, for more details.

Over to you, Bernard.
Thanks Craig, and good morning to everyone joining us on the phone and web.

I’m also delighted that we are able to host a small audience here in-person.
This includes my leadership team – with the exception of Anja who joins us on March 1st – which we’re all very excited about. I also want to introduce you to two new members of the team - Leigh-Ann who takes over from David Eyton – and Emeka who takes over from Dominic Emery. All on March 1st.

And for those of you on the web, you can see them up on this slide.

The last time we held an in-person event was two years ago – and so it is fantastic to welcome those of you joining us here today. Hopefully a little sign of progress and confidence in the future.
In the two years since laying out our new ambition – we have been through a period of significant change.

At the same time - the world around us has changed; COVID, volatility in energy markets and the accelerating energy transition.

With this backdrop, it feels like a good time to pause for a moment - and reflect on our journey so far.

The bp we see today is a company that has successfully completed a period of significant change, one that sees clear and compelling growth opportunities presented by the energy transition, and one that is 100% focused on delivering the plan we laid out. What - by now you know - we call “performing while transforming”.

Before we get started, we’ve got a short video to share with you...
I personally think it’s amazing to see what the team has delivered – especially considering how much was done virtually in the midst of a pandemic. I hope it gives you some confidence in our ability to get things done.

So, let’s get into that in a bit more detail, starting with the full year results for 2021. We delivered:

- underlying replacement cost profit of $12.8 billion
- operating cash flow of $23.6 billion, including a working capital build of $5.3 billion, and
- return on average capital employed of 13.3% - the highest level for a decade.

In addition:

- we delivered our target of $2.5 billion of cash cost savings on a run-rate basis relative to 2019, ahead of schedule
- we reduced our net debt by over $8 billion
- we raised our dividend per ordinary share in the second quarter by 4%; and
- including the $1.5 billion share buyback announced today, we will have delivered share buybacks from 2021 surplus cash flow totalling $4.15 billion.

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<th>FY &amp; 4Q 2021 financial results &amp; update on strategic progress</th>
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<tr>
<td>$12.8bn underlying replacement cost profit*</td>
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<td>&gt;$8bn net debt* reduction</td>
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<td>13.3% ROACE*</td>
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<td>5.46¢ per ordinary share dividend for 4Q21</td>
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<td>$4.15bn buybacks announced from 2021 surplus cash flow*</td>
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Next, to our progress in transforming bp.

Since we announced our strategy to become an integrated energy company, we have been building momentum across each of our three strategic focus areas:

In Resilient hydrocarbons, we have:

- started up 11 major projects since the start of 2020, thereby delivering our 2016 target of bringing 900 thousand barrels of new high-margin production online.

In convenience and mobility, we have:

- grown margin share from convenience and electrification by 4% since 2019 – demonstrating the strength of our customer offers; and
- increased the number of EV charge points to over 13,000 across the UK, Europe, India and China.

And, in Low carbon energy, we have:

- entered offshore wind – with a pipeline of 5.2 gigawatts net to bp today, following the recent ScotWind lease option award of 1.5 gigawatts net
- built a renewables pipeline which at the end of 2021 stood at 23 gigawatts, a four-fold increase since the end of 2019; and
- made exciting progress in hydrogen – having grown a hopper of between
0.7 and 1.3 mtpa.

Progress like this – as well as the pace at which the world is moving – leads us to believe we can accelerate our plans in some areas and reinforces our confidence in delivering our 2025 targets.

Before we get into the detail around that – let me first bring in Murray to discuss our 4Q results.

Murray…
Thanks Bernard and good morning everyone.
I'll start as usual with the macro environment.

During the fourth quarter Brent rose by 8% to average $80 per barrel, its highest level in seven years. To date in 2022, Brent has moved above $90, with supply disruptions, easing concerns around Omicron and the expectation of continued declines in inventories. Looking ahead, we expect supply and demand to move back towards balance through 2022. However, with lower levels of spare capacity, price volatility is likely.

Turning to gas. During the quarter, seasonal demand saw Henry Hub rise by 10% to an average $4.70. International prices rose sharply with NBP and JKM around 90% higher than in the third quarter. This was caused by low inventory levels and concerns about the availability of supply during the winter months. With ongoing geopolitical uncertainty, and low storage levels we see the potential for continued price volatility.

Turning to refining. Industry margins remained broadly flat compared to the third quarter and we expect them to remain at similar levels during the first quarter. Local margins may be impacted by lockdowns.
Moving to our results.

In the fourth quarter we reported an underlying replacement cost profit of $4.1 billion compared to $3.3 billion last quarter.

Compared to the third quarter:

In gas and low carbon energy the result benefitted from higher gas realisations and higher production due to major project ramp-up. After an exceptional first nine months it was an average quarter for gas marketing and trading;

In oil production and operations the result reflects higher liquids and gas realisations - this includes the benefit of very strong NBP prices. The result also reflects higher production including a recovery in the Gulf of Mexico from the impact of Hurricane Ida; and

In customers and products, the products result was impacted by a significantly lower oil trading result and higher energy costs. The customers result reflects resilient retail and convenience performance despite seasonality and COVID-19 impacts. In Castrol volumes were higher, although results continue to be impacted by high base oil prices and additive shortages.

For the fourth quarter, bp has announced a dividend of 5.46 cents per ordinary share, payable in the first quarter.
Turning to cash flow.

Operating cash flow was $6.1 billion in the fourth quarter. This included a working capital build of $2.2 billion.

Capital expenditure was $3.6 billion for the fourth quarter.

And disposal proceeds were $2.3 billion. This includes $1.5 billion related to the sale of our Alaska business to Hilcorp in 2020. With proceeds of $7.6 billion received during 2021, we have received $12.8 billion of proceeds against a target of $25 billion by 2025.

Strong cash flow generation enabled us to deliver surplus cash flow of $3.0 billion for the quarter and $6.3 billion for the full year. This underpinned a further reduction in net debt and supports our continued share buybacks.

During the quarter:

- Net debt fell for the seventh consecutive quarter to reach $30.6 billion at year-end;
- A share buyback of $1.725 billion was executed. This included the $1.25 billion announced with third quarter results and $475 million to complete the programme announced with second quarter results; and
- We intend to execute a further $1.5 billion share buyback prior to announcing first quarter 2022 results.
Let me then summarise the progress made during 2021 against our financial frame.

We have a clear set of priorities.

First, a resilient dividend. We announced a 4% increase in the dividend per share with second quarter 2021 results.

Second, a strong investment grade credit rating. During 2021 we achieved our $35 billion net debt target around a year earlier than expected and reduced net debt by over $8 billion.

Third, disciplined investment allocation. 2021 capital expenditure was $12.8 billion including inorganics – in-line with guidance of around $13 billion.

And fourth, share buybacks. For the year we announced $4.15 billion of buybacks from surplus cash flow. That takes us to total announced shareholder distributions of $8.4 billion for the year – around the level of annual dividend distributions in 2019.

I will update you on our 2022 plans shortly, but for now let me hand back to Bernard.
Thanks Murray.

I am going to speak for just over half an hour before handing back to Murray to cover the financial frame. Then I will close and we’ll move to Q&A.
Our strategy to transform into an IEC remains unchanged

Let me turn now to our strategic progress.

We now have two years under our belt. We have made progress on our 2025 targets. And we are increasingly confident - not just in those targets - but in the opportunities presented by the energy transition.

Before we get into the detail, let me remind you of that strategy – which I would add, remains unchanged.

It is a three-part strategy:

Part 1. Resilient hydrocarbons

Part 2. Convenience and mobility; and

Part 3. Low carbon energy.

Embedded across these is our sustainability frame, which sets out our aims for getting to net zero, improving people’s lives and caring for our planet.

And binding it all together is integration. Harnessing our collective capabilities as the energy system transitions, to help more and more customers get the clean, reliable and affordable energy they want - and in doing so – creating value for our shareholders.

We sum up all of this as bp transforming from an International Oil Company to an Integrated Energy Company.
And I would say we have already made significant progress in this transformation.

In year 1 – 2020 – we set out a new direction - a new purpose, a new ambition, a new strategy, a new financial frame, a new sustainability frame; and a new leadership team. That is now done.

Year 2 – 2021 – was about change and the largest restructuring in our history – so that we are organised to deliver. That is also now done.

With all of this now behind us – the decks are clear. Year 3 – 2022 – and, indeed, beyond – is about one thing and one thing only – delivery. The safe, efficient and disciplined delivery of the plans we have laid out.

And maybe our biggest takeaway from our experience thus far: that as we transform – we must perform. Our shareholders expect and deserve nothing less – and I hope our results show you that we are doing just that.
I will be emphasising six points today and that was Point 1: direction is set, change is done, we are now focused on delivery.

We will cover these points through the presentation, but let me briefly summarise.
Confidence in 2025 delivery

7 - 9%
Strong growth in EBIDA per share

12 - 14%
Strong and improving ROACE

> 20%
Capital employed in transition

Two year track record of strategic delivery

Growing EBIDA* to ~$40bn in 2025

- Sustaining from resilient hydrocarbons at ~$33bn
- Rateable growth from convenience and mobility to ~$7bn

Disciplined application of our financial frame

- $14-16bn capital expenditure* p.a.
  - Transition spend rising to >40% by 2025
- Commitment to allocate ≥60% surplus cash flow* to share buybacks
- Resilient and growing dividend within a 2021-2025 average cash balance point* of ~$40/bbl

Point 2.

We have confidence in delivering our key 2025 financial targets.

This is underpinned by:

- Resilient hydrocarbons, where we expect to sustain EBITA at around $33 billion
- Convenience and mobility, where we expect rateable EBITA growth to around $7 billion; and
- our disciplined financial frame, including:
  - annual capital expenditure unchanged at $14-16 billion, of which at least 40% is expected to be invested in the transition by 2025;
  - a commitment to return at least 60% surplus cash flow through share buybacks, subject to maintaining a strong investment grade credit rating; and
  - a resilient and growing dividend.

As a result, we remain on track to deliver:

- a 7-9% EBIDA per share CAGR
- 12-14% ROACE; and
- at least 20% of capital employed in the transition.
Aiming for EBITDA growth to 2030

And we aim to continue to grow EBITDA to 2030. We plan to do this by:

sustaining EBITDA from resilient hydrocarbons
continuing rateable growth in convenience and mobility, and
aiming to deliver a $2 to 3 billion contribution from low carbon energy.

Point 3.

We aim to sustain EBITDA from our hydrocarbons business by:

- high-grading our oil and gas portfolio
- growing the underlying contribution from refining, and
- deepening our investment in bioenergy.

Point 4

We aim to deliver between $9 and 10 billion of EBITDA from transition growth businesses by 2030, up from $1bn today, driven by five transition growth engines:

- Bioenergy
- Convenience
- EV charging
- Renewables; and
- Hydrogen.

You can think of them as non-fossil and in high growth sectors.
In each of these areas – our experience, our skills, our networks, our brand, our assets – gives us real competitive advantage.

Capital expenditure invested into transition is expected to be over 40% of total spend by 2025, rising to around 50% by 2030. This leads to capital employed in transition rising from over 20% at 2025 to around 40% by 2030. On the chart – you can see the returns we expect.

And all of this within our existing $14-16 billion capital frame.
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<th>Point</th>
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<tbody>
<tr>
<td>1</td>
<td>Direction set, Change done, One and only focus now: Deliver!</td>
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<tr>
<td>2</td>
<td>Confidence in 2025 delivery, EBITDA* growth to 2030¹</td>
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<tr>
<td>3</td>
<td>EBITDA* from resilient hydrocarbons sustained through 2030¹</td>
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<td>4</td>
<td>$9-10bn EBITDA* from transition growth businesses by 2030¹</td>
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<td>5</td>
<td>Greening accelerated – net zero operations, production and sales²</td>
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<tr>
<td>6</td>
<td>Capital discipline, balance sheet deleverage, focus on shareholder returns</td>
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(¹) 2030 represent aims, at $60/bbl (2020 real) and bp planning assumptions
(²) By 2050 or sooner, see glossary for definition of net zero, net zero operations, net zero production & net zero sales

Point 5.

We are now aiming for net zero emissions across operations, production and sales by 2050 or sooner.

Finally, point 6.

We will remain focused on the disciplined application of our financial frame - providing compelling shareholder distributions, while continuing to strengthen the balance sheet and remaining disciplined in our capital expenditure.

This framework is unchanged and Murray will come back to this later.
Turning then to progress across our strategic themes – and starting with #1 – resilient hydrocarbons.
Resilient hydrocarbons

“High-grading our portfolio, lowering our emissions and driving returns”

Here we plan to high-grade our portfolio, lower our emissions and drive higher returns.

We will do this through three focus areas – oil and gas, refining and bioenergy.

Before I turn to each, let me let me take you through some of our strategic highlights to date.
Since the start of 2020 we have delivered 11 major projects, bringing the total to 35 since 2016, executed on average, on schedule and around 15% below budget.

And there is more to come, with four start-ups expected during 2022.

Through 2021 we have:

- driven competitiveness through portfolio decisions
- maintained reliability and availability in the face of a challenging operating environment
- reduced the non-productive time in our drilling and completion operations by 20%; and
- we have embedded our single operating model, with around 7,500 people now deployed in ‘Agile’ structures, fundamentally changing how they work.

For example, this single operating model helped with our approach to planned turnarounds. In 2021 – the first year these were managed globally across oil, gas and refining – we delivered 26 planned turnarounds, on average under budget and with a lower production impact than planned.

And we are in action on emissions, for example further reducing our Permian methane flaring intensity to a record low of around 0.6% in December, down 95% since acquiring the assets in 2018.
We expect to sustain EBITDA from resilient hydrocarbons at around $33 billion through 2025, and thereafter we now aim to maintain EBITDA in a range of $30-35 billion until 2030.

With our 2030 nominal oil price assumption broadly flat versus 2021 actual, this is driven by three factors:

- we aim to grow unit EBITDA from oil and gas.
- we aim to grow the underlying contribution from refining, and
- we aim to deepen our investment in bioenergy.
- Let me take each of these in turn.
Deep oil and gas resource base driving quality through choice

In oil and gas, we have a deep and high-quality resource base of 30 billion boe that allows us to choose the best investments.

We have a disciplined capital frame for oil and gas of around $7.5 billion per annum through 2025.

In allocating this capital we look for paybacks of less than ten years for oil and less than 15 years for gas, to select the highest quality options as we focus on cycle time.

We are confident in the value and resilience of this investment plan:

- it leverages existing assets, with around 70% to be spent on existing hubs – typically lower risk and higher quality
- it holds managed base decline in a 3 to 5% range through 2025 and beyond
- it is capital efficient – with an average point-forward development cost of around $9 per barrel compared to a 2021 unit DD&A of $15 per boe
- We aim to manage our R to P ratio down to around eight years by 2030, and;
- it is focused, with 80% of capex spent in just six regions.
This investment plan holds underlying production broadly flat through 2030.

The depth of our resource base provides flexibility:

- By 2030 we aim to high-grade around 700 thousand barrels of oil equivalent per day relative to 2021.
- The margin on these barrels is lower - at an average less than $20 per barrel.
- This is expected to allow us to realise value through the divestment of assets.

And we plan to continue to drive cost efficiency while maintaining safety and operational integrity – realising synergies through our single operating model, our relentless focus on digital, and our adoption of agile work structures. We plan to drive unit production costs to around $6 per barrel by 2025 and aim to hold at this level through 2030.

This is expected to result in a high-quality, focused portfolio, with:

- 90% of 2030 EBITDA generated from six regions; and
- an improvement in unit margins relative to 2021 of more than 20% by 2030.
In refining, we aim to deliver around $2 billion of underlying EBITDA growth by 2030 relative to 2021, excluding biofuels.

Of this, around half is expected to come as demand recovers, with COVID impacts easing, supporting an increase in realised refining margins. The remainder is expected to be delivered by our business improvement plans, focused on three areas:

First, availability. We are on-track to deliver over 96% Solomon availability. Our turnaround improvement plans have already delivered improvements and we expect the impact of the higher maintenance activity in 2021 to reduce over time.

Second, cost efficiencies. We plan to deliver Solomon second quartile or better, non-energy cash costs, a competitive position given our refinery configurations, while keeping a rigorous focus on safety and operational integrity.

Third, flexibility and yield improvements. For example, through investments in the US Midwest and the Cherry Point Hydrocracker Improvement Project.

In addition, we remain focused on high-grading the portfolio – through conversion, consolidation of less advantaged units or divesting where it makes sense.

Together these points underpin our target of achieving top quartile Solomon net cash margin by 2025.
Turning to bioenergy, the first of our transition growth engines.

The market backdrop is strong. bp’s energy outlook ‘Rapid Transition’ scenario shows biofuels growing by an average of 6% per annum to 2030, with sustainable aviation fuels – SAF – and biogas, growing significantly faster.

We aim to deliver around $2 billion EBITDA by 2030 – around half driven by the production of biofuels from feedstocks meeting applicable sustainability standards, and around half by biogas and other trading opportunities.

Let me start with biofuels.

Our refineries operate in regions where we expect to see strong growth in demand, and our manufacturing processes are well positioned to adapt to this.

We already produce more than 5,000 barrels per day of biofuels at three of our refineries through bio co-processing. We aim to triple production by 2030 across these sites.

We plan to invest in five major biofuels projects including three adjacent to existing refineries and the conversion of up to two to bio-refineries.

This focus on leveraging existing infrastructure, logistics, scale and customer relationships is expected to create capital-efficient growth.
Turning to biogas.

This is a sector we are increasingly excited about. It:

- is capital light
- is highly modular and capable of rapid growth
- can achieve very low carbon intensities
- creates value for bp through strong integration with trading; and
- it delivers high returns and fast paybacks.

Through our co-marketing agreement with Clean Energy Fuels, we are already the largest supplier of biogas in the US to heavy duty fleet customers. And we recently acquired a 29% stake in Gasrec, a major UK provider of biogas to heavy goods vehicles.

We plan to retain our leadership position in the US and expand in the fast-growing European market. We aim to scale equity production around 20-fold, to over 10,000 barrels a day by 2030, and through additional offtake, we expect further margin capture.
Strategic theme #2 is convenience and mobility.
Convenience and mobility

"Doubling EBITDA*, sustaining returns, focused on customers"

Here - our aim is to double EBITDA by 2030, while sustaining returns of 15 to 20%, all through a focus on customers.

We see this growth being driven by:

- our differentiated convenience and fuels offers and selective growth markets expansion
- the acceleration of our EV charging ambition across key markets, and
- the contribution from Castrol, aviation including SAF, B2B and midstream.

Since we outlined our strategy, our capital allocation plans have changed in two areas:

First, we are accelerating our EV charging ambition, and;

Second, we are tightening our expansion in growth markets.
This slide shows just some examples of the progress we made, which I will highlight when I cover these businesses. This strong strategic delivery gives us confidence in future delivery.
As a reminder, we expect to deliver around $7 billion EBITDA by 2025 and aim for between $9-10 billion by 2030, with returns of 15 to 20%.

Our businesses have remained resilient during the pandemic. We expect COVID impacts of more than $600 million in 2021 to reverse over the coming years, and EBITDA growth to 2030 to be split across the three businesses shown on the chart.

Our convenience and fuels businesses, along with Castrol, are rateable, and drive most of the growth to 2025; with EV driving more of the growth in the second half of the decade.

Let me outline our plans in each of our business areas, starting with convenience and fuels retail.
Convenience is the second of our transition growth engines. It is a material business and in 2021 delivered a record $1.5 billion gross margin – more than 20% growth in two years. And we aim to continue to grow, at around 7% per annum.

We are confident in this growth as:

– we aim to expand our strategic convenience network to around 3,500 sites by 2030; having already added around 500 since 2019
– we continue to increase basket sizes
– we have taken full ownership of Thorntons in the US; and
– we have extended our partnership with Marks & Spencer in the UK.

Our convenience offer builds on a strong and material retail fuels business. We have:

– a great network of sites in established markets which generally sell more fuel than the industry average
– strong, trusted brands
– premium fuels that generate around double the margin of our regular fuels in many markets; and
– differentiated digital offers and loyalty schemes. For example, our bpme app customers have grown three-fold since 2019, and these customers typically spend twice as much as other customers.

We now aim to expand our presence in growth markets to over 6,000 sites by
2030, which will be primarily driven by our successful Jio-bp JV in India.
EV charging – accelerating our ambition through a focus on ‘on-the-go’ charging and fleets in material markets

Operated ‘on-the-go’ EV charge points and energy sales

Established a leading presence in UK and Germany, entered fleet segment in the US

~50% of network are rapid or ultra-fast charge points*1

More than 10x increase in energy sales (GWh) 2019-2021

Digitally connected charging, strategic investments and partnerships

So, turning to EV charging – the third of our transition growth engines.

We aim for this business to deliver more than a third of our overall EBITDA growth from convenience and mobility to 2030.

We are accelerating our EV charging ambition across key growth markets, through a focus on ‘on-the-go’ charging and fleets.

For ‘on-the-go’ charging – customers want fast, convenient, reliable and seamless charging, integrated with leading convenience offers and services.

We are confident we can succeed for three reasons:

– first, we have an advantaged retail and convenience network in our key focus markets. In the UK and Germany for example, we have established a leading presence – where more than 90% of the population live within a twenty-minute drive of our stores

– second, we are focused on rapid and ultra-fast charging, driving higher utilisation and margins

– third, we expect our investment in digital technology and strategic partnerships to drive-up utilisation and increase footfall at our convenience stores.

Overall, we aim to grow our network to more than 100,000 EV charge points and increase our energy sales from those by more than 100-fold by 2030.

Our second focus area is fleets. We think this has enormous growth potential for bp:
we have a material fleet business with customers who we aim to support in their transition to EV charging

- we already provide dedicated fleet solutions, which include hardware, software and other services; and

- our acquisition of AMPLY Power has accelerated our entry into the US – one of the fastest growing fleet charging markets in the world

Taken together, these plans give us confidence in aiming to deliver ~50% margin share from convenience and electrification by 2030.
Turning finally to Castrol, aviation, B2B and midstream. Here the three key drivers of growth are:

First, aiming to grow Castrol revenues to more than $8 billion by 2030, through:

- expansion in growth markets, including in India where Castrol is the number one brand
- extending our Castrol branded service and maintenance offers globally; and
- providing market leading offers in EV fluids. More than two-thirds of major OEMs have approved Castrol ON as part of their factory fill.

Second, improving Castrol profitability through a focus on cost efficiency, simplification, digitisation and optimisation of its manufacturing footprint.

Third, growing aviation, B2B & midstream, by leveraging our:

- strategic relationships with major airlines and airports
- established position in SAF – where we aim in place to be a sector leader, with 20% share of supply, and
- continued growth in our bio ground fuels businesses.

Summing up, these steps give us the confidence in our aim of delivering $9-10 billion EBITDA from convenience and mobility by 2030.
Strategic theme #3 is low carbon energy.
Low carbon energy

“Building scale with capital discipline and returns focus”

Our focus on returns and building scale with capital discipline is unchanged.

We are aiming to create integrated low carbon energy hubs, enabled by our last two transition growth engines:

- First, renewables. We aim to build a leadership position in offshore wind and accelerate our solar growth through Lightsource bp and bp’s US solar pipeline. We remain confident in achieving 8 to 10% levered returns;

- Second, hydrogen. Here we aim to leverage bp’s existing refinery demand to build regional supply positions. And as hydrogen markets develop, we aim to create a portfolio of globally advantaged supply hubs. We aim to capture a 10% share of core markets, by 2030.
Over the past two years we have made significant progress.

In offshore wind, we grew our pipeline to over 5 gigawatts net in two core markets, through our partnership with Equinor in the US and with EnBW in the UK.

In solar, Lightsource bp has increased its pipeline from 1.6 gigawatts to 20.6 gigawatts since bp’s investment in late 2017, progressing 53 projects to FID at weighted average expected returns of 8-10% - prior to farm-down.

And we are achieving significant milestones in building our hydrogen and CCS businesses.
Aim to grow EBITDA to $2-3bn by 2030

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</tr>
<tr>
<td>Capital expenditure* ($bn)</td>
<td>0</td>
<td>1.6</td>
<td>3-5</td>
</tr>
<tr>
<td>Developed renewables to FID* (GW)</td>
<td>2.6</td>
<td>4.4</td>
<td>20</td>
</tr>
<tr>
<td>Low carbon hydrogen* in core markets (%)</td>
<td>Growth phase</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

We have successfully increased the size of our renewables project pipeline to 23 gigawatts net bp at end 2021 and have a material hopper of early-stage renewables and hydrogen projects.

Our capital investment in these businesses is growing. We spent $1.6 billion in 2021 and expect to invest between $3 to 5 billion per annum by 2025, rising to $4 to 6 billion per annum by 2030.

We are rigorous in evaluating opportunities, selecting only what we see as the best projects.

This momentum and discipline, gives us confidence in the quality of the business we are building. By 2030 we aim to deliver between $2 and $3 billion of EBITDA.
As this slide shows, we now have a global portfolio of projects in solar, offshore wind and hydrogen, giving us the platform to develop future low carbon energy hubs.

Turning to hydrogen, where we have conviction in our ability to create differentiation and build a material business.
Low carbon hydrogen – ambition to reach 10% share in core markets

We now have a hopper of 0.7 mtpa, of which half has been announced including H2 Teesside, Lingen and Oman. This hopper has the potential to grow to up to 1.3 mtpa, as we continue to activate demand and scale up production.

We are focused on growing scale in key, regionally integrated markets, such as the UK, Europe, and the US.

And we are playing to our strengths:

- leveraging our technical capabilities and existing demand at our refineries to underpin first projects
- building on our experience of delivering and operating complex global projects;
- creating value through integration of marketing, trading and shipping; for example, with power customers in Asia through LNG; and
- deepening partnerships; creating integrated low carbon energy hub opportunities, through long-standing relationships built through our oil and gas businesses such as in Abu Dhabi and Oman, and with companies such as Daimler and NYK Group.

We are confident and energised by the potential of this new business and Anja will discuss this – and the broader low carbon business – with you later in the year.
Turning to Integration.

Let me explain why we see a role, and need, for an IEC such as bp – one of a few companies we believe who have the scale and expertise to navigate complex markets and who can help manage increasingly inter-connected energy systems – the importance of which has been highlighted in only the past few months.

For over one hundred years, we have been in the business of integrated energy value chains, based on hydrocarbons as the energy source.

We get oil and gas out of the ground – the upstream business.

We transform hydrocarbons into marketable products – the refining business.

We sell hydrocarbon-based products – the marketing business.

We have created a portfolio which gives us a global presence across the hydrocarbon value chain. And we have our trading organisation to optimise the flow, providing an uplift to group returns of at least 2%, in addition to what each standalone business can deliver.

As we move from an IOC to an IEC, and decarbonise our portfolio, we plan to replicate this model of integrated energy value chains, combining hydrocarbons with electrons and hydrogen.

We are moving into renewables, solar and wind, generating electrons – a new upstream business.

We can transform these electrons into hydrogen – a new downstream
business.

And we will sell the products – electrons and hydrogen – to customers – a new marketing business.

This creates an electron and hydrogen energy value chain with upstream, downstream and marketing businesses, that complement our existing hydrocarbon value chain.
Business integration – our trading organisation is at the heart of our IEC model

“Leading energy trader present in 140 countries with >2,000 employees”

At the heart of our integrated value chains is our world-class trading business. It has been decades in the making with a presence in 140 countries and over 2,000 employees. Through it:

- we can leverage our global asset portfolio to provide a consistently reliable supply
- we have expertise in managing risk in volatile markets with high commercial and regulatory complexity
- we have deep analytics and technology expertise;
- and we can create integrated bespoke energy solutions for customers.

All of these are transferable – allowing us to grow in new products and markets, including for example biogas and low carbon products.

Together we believe this capability can allow bp to offer customers a one stop shop for their energy needs.
The UK is an example of how these integrated hydrocarbon, electron and hydrogen value chains can come together in one region.

We have been present across the hydrocarbon value chain in the UK for over 50 years:

- we produce oil and gas from the North Sea
- we sell oil and gas to customers and gasoline and coffee to consumers; and
- we are also bringing gas into the UK from overseas to the Isle of Grain terminal as well as shipping products from European refineries.

We are now in action to create electron and hydrogen energy value chains:

- we intend to produce electrons through offshore wind farms in Scotland and in the Irish Sea and through solar in our Lightsource bp joint venture
- we plan to construct hydrogen, CCS and biogas plants
- we plan to scale up our EV charging and customer offers using our extensive physical retail network, brand and convenience offer
- we will be able to link gas and electrons to help create reliable power; and, as mentioned earlier
- the returns from each of these hydrocarbon, electron and hydrogen businesses can be further enhanced by integration through our trading

...
organisation.

This ability to leverage existing infrastructure, capabilities and relationships, and integrate across offshore wind, hydrogen and EV charging, supported our recent successful bid in the ScotWind leasing round.

And we are already working to replicate this model in other countries.
Equally crucial to our transformation to an IEC is having the right capability to enable our success.

And here we are in a good position.

We have great incumbent capability. Skills that we can leverage right across our three strategic themes. Our 120 strong extended leadership team is representative of our broader workforce, bringing together a broad and diverse set of expertise, views and perspectives, and is made up of around 40% females and around 25% global minority. And from next month, I look forward to having a gender balanced leadership team reporting to me.

And on the right of the slide, you will see that where we feel we need different skills – we are hiring. Bringing in high-calibre, specialised talent, often from other industries. Over the past 18 months – we have hired 38 senior executives from outside the company – a marked change with our history. It is hugely encouraging to see the interest in our strategy and our direction.
Turning then to sustainability.

In 2020, we announced our ambition to be a net zero company by 2050 or sooner, and to help the world get to net zero.

Two years on, we continue to believe our ambition is good business and supports society’s drive towards the Paris climate goals.
Sustainability – we are accelerating our net zero ambition in line with the progression of our strategy

<table>
<thead>
<tr>
<th>Aim</th>
<th>Scope</th>
<th>2025</th>
<th>2030 aims</th>
<th>2050 or sooner aims</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aim 1</td>
<td>Net zero operations*1</td>
<td>Scope 1+2</td>
<td>20%</td>
<td>50%</td>
</tr>
<tr>
<td>Aim 2</td>
<td>Net zero production*1</td>
<td>Scope 3</td>
<td>20%</td>
<td>35-40%</td>
</tr>
<tr>
<td>Aim 3</td>
<td>Net zero sales*1</td>
<td>Lifecycle intensity (including end-use emissions)</td>
<td>5%</td>
<td>15-20%</td>
</tr>
<tr>
<td>Aim 4</td>
<td>Reducing methane</td>
<td>Methane intensity</td>
<td>0.20% (measurement approach)</td>
<td></td>
</tr>
</tbody>
</table>

*1 2025 targets and 2030 aims for Aim 1-3 are against our 2019 baseline. 100% means to net zero by 2050 or sooner.

We are in action and on track for our 2025 targets.

As we progress, we continue to learn. We have growing confidence in the opportunities – especially over the longer term – in building, participating in and integrating along and across net zero value chains.

This enables us to make some changes.

For Aim 1, which encompasses our scope 1 and 2 emissions from our operations, we’re accelerating our 2030 aim from 30-35% to 50%.

For Aim 3, which includes the lifecycle emissions from the products we sell, we are:

- increasing our 2050 or sooner aim from a 50% reduction in carbon intensity to net zero
- updating our 2030 aim to 15-20%; and
- expanding Aim 3’s scope to include physically traded energy products.

Delivery of our 2030 aims will be driven by execution of our strategy.

For aim 1, this includes improvements from reduced flaring, energy efficiency, electrification and use of low carbon electricity, as well as the contribution from base decline and divestments.

For aim 3, this is driven by our evolving portfolio, including investment in EV charging, bioenergy, renewables and hydrogen, as well as an energy product trading mix that reflects decarbonisation of global energy and bp’s activities over time.
Our other aims remain as is, including those on methane and net zero production.

In aiming for net zero across our operations, production and sales by 2050 or sooner, we believe our ambition supports the global push to meet the Paris goals, including helping the world pursue efforts to limit temperature rise to 1.5°C above pre-industrial levels.

We intend to provide shareholders with the opportunity of an advisory vote on our net zero ambition at our 2022 AGM. We are grateful for the continued engagement, challenge and support from our investors, including CA100+. 
Rosneft – committed to sustainably developing resources and driving down emissions

Turning finally to Rosneft, who also continue to make significant progress on their sustainability agenda.

We welcome their board’s approval of a new 2030 strategy, which incorporates a target to be net zero by 2050 for scope 1 and 2 operational emissions.

Rosneft’s ambitions are leading among large Russian energy companies. They are supported by interim targets on absolute emissions, methane and flaring.

This builds upon Rosneft’s commitment to improving environmental performance, with a strong focus on energy efficiency and carbon and methane intensity.

We are, almost to the day, one year into bp and Rosneft’s strategic collaboration agreement on carbon management and sustainability. Through sharing perspectives and exploring emissions reduction opportunities, the agreement supports both companies’ decarbonisation journeys.

Let me now hand back to Murray to update you on our financial frame.
Murray Auchincloss
Chief financial officer

No script
Strategic progress – financial frame

Growing cash flow as the business transitions

<table>
<thead>
<tr>
<th></th>
<th>2H19/1H20</th>
<th>2021</th>
<th>2025</th>
<th>2030 aims</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resilient hydrocarbons</td>
<td>$51/bbl</td>
<td>$71/bbl</td>
<td>$66/bbl¹</td>
<td>$73/bbl¹</td>
</tr>
<tr>
<td>Convenience and mobility</td>
<td>25.0</td>
<td>33.5</td>
<td>-33</td>
<td>30-35</td>
</tr>
<tr>
<td>Low carbon energy</td>
<td>4.0</td>
<td>4.4</td>
<td>-7</td>
<td>9-10</td>
</tr>
<tr>
<td>Group EBITDA² ($bn)</td>
<td>28.5</td>
<td>37.2</td>
<td>-40</td>
<td>41-48</td>
</tr>
<tr>
<td>Group capital employed² ³ ($bn)</td>
<td>112</td>
<td>109</td>
<td>-120</td>
<td>-150</td>
</tr>
</tbody>
</table>

7-9% EBIDA per share CAGR⁴,⁵  
12-14% ROACE⁶

Thanks Bernard.

The detail we’ve provided today links the delivery of our strategy to our 2025 financial targets. It also shows how we aim to transition the cash flows of the company to 2030 based on our plans.

Let me briefly recap.

First, we have a high-quality, resilient hydrocarbons business that we expect to sustain EBITDA around 2021 levels through 2025. And we aim to hold around this level through 2030 at broadly constant price assumptions, with returns of 12 to 15%.

Second, from 2021 we aim to more than double EBITDA from convenience and mobility to around $9 to 10 billion by 2030, while generating returns of at least 15 to 20%. Our customer businesses are rateable, and drive growth to 2025; with EV charging driving growth in the second half of the decade.

And third, in low carbon, we aim to grow EBITDA in the second half of the decade, reaching $2 to 3 billion by 2030 as our renewables and hydrogen businesses come on-line.

This is all underpinned by a continuing focus on cost and efficiency, investment in digital, and agile ways of working. We continue to expect to deliver cash cost savings from reinvent bp of $3 to 4 billion in 2023 relative to
2019.

Taken together, this underpins our confidence in the guidance that we gave you in August 2020. We expect to deliver a 7 to 9% EBIDA per share CAGR between 2H19/1H20 and 2025, and ROACE of 12 to 14%. This assumes oil prices of $50 to 60 per barrel in 2020 real terms.

And looking further ahead, as the business transitions we aim to continue to grow EBITDA to 2030 while sustaining returns of 12 to 14%.
Within this we are increasing our exposure to businesses which are expected to see rapid growth through the energy transition.

As Bernard mentioned, this is driven by five transition growth engines – bioenergy, convenience, EV charging, renewables and hydrogen.

These businesses contribute around $1.5 billion of our EBITDA today.

But we are deepening our investment here. In 2021 they represented more than 15% of our capex. By 2025 we expect this to be greater than 40% and by 2030 around 50%.

Capital employed will follow. While modest today, it is expected to reach over 20% by 2025 and close to 40% by 2030.

And in the second half of the decade, we aim to deliver double digit EBITDA growth from these businesses as the capital we are investing matures.

Together these transition businesses, underpinned by these five growth engines, aim to deliver around $9 to 10 billion of EBITDA by 2030.
Our confidence in this potential reflects the progress made in building strong foundations in each of these businesses and, as a result, a clear set of operational milestones from which you can start tracking our progress.

As Bernard has highlighted:

- In bioenergy, our plans are underpinned by 5 major projects including three adjacent to existing refineries;
- Additionally, we will continue to rapidly expand our arrangements with biogas companies – with further offtake and equity positions;
- In convenience we have grown our network of strategic convenience sites by around 30% in the last two years with clear line of sight to our upgraded targets in 2025;
- We are rapidly building a network of EV charge points to underpin our focus on fleet and ‘on-the-go’ fast charging in core markets;
- We have established a 5.2GW pipeline in offshore wind. This includes Empire Wind and Beacon Wind in the US, Mona and Morgan in the Irish Sea and our new ScotWind venture, Morven. We expect the first projects due online before the end of the decade; and
- Our first green hydrogen projects are scheduled to start-up from 2024.

### Strategic progress – financial frame

#### Transition growth engines – operational milestones

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022-25</th>
<th>2026+ aims</th>
<th>2030 aims</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioenergy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operational bio-refineries’</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global biogas offtakes</td>
<td>35</td>
<td>&gt;125</td>
<td>&gt;225</td>
<td></td>
</tr>
<tr>
<td>Bioenergy production</td>
<td>&gt;26mbd</td>
<td>&gt;50mbd</td>
<td>&gt;100mbd</td>
<td></td>
</tr>
<tr>
<td>Standalone bio-plants</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convenience</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strategic convenience sites’</td>
<td>2,150</td>
<td>-3,000</td>
<td>-3,500</td>
<td>-50%</td>
</tr>
<tr>
<td>Margin share from convenience &amp; electrification</td>
<td>29%</td>
<td>-35%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV charging</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV charge points’</td>
<td>13,100</td>
<td>&gt;40,000</td>
<td>&gt;70,000</td>
<td>&gt;100,000</td>
</tr>
<tr>
<td>Renewables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Developed renewables to FID’</td>
<td>4.4GW</td>
<td>20GW</td>
<td>50GW</td>
<td></td>
</tr>
</tbody>
</table>
| Offshore wind pipeline | 5.2GW | First offshore wind projects to FID | 5.2GW | Net offshore wind to FID
| Solar                | 19.4GW | L5bp deliver 25GW to FID | First COD of tip US solar pipeline |           |
| Hydrogen’            | 0.7-1.3mtpa | First green hydrogen’ | H Vision, HyGreen, NZT power, and H2 Teesside operational |           |
| CCS                  |      |         |            |           |

(1) Includes ScotWind lease option award in January 2022

FY & 4Q 2021 financial results & update on strategic progress
### Disciplined investment allocation

<table>
<thead>
<tr>
<th>Capital expenditure* (including inorganics) $bn</th>
<th>2021</th>
<th>2022</th>
<th>2023-25</th>
<th>2026-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resilient hydrocarbons</td>
<td>9.3</td>
<td>~9</td>
<td>9-10</td>
<td>~8</td>
</tr>
<tr>
<td>Convenience and mobility</td>
<td>1.6</td>
<td>2-3</td>
<td>2-3</td>
<td>2-3</td>
</tr>
<tr>
<td>Low carbon energy</td>
<td>1.6</td>
<td>~2.5</td>
<td>3-5</td>
<td>4-6</td>
</tr>
<tr>
<td>Group capital expenditure**</td>
<td>12.8</td>
<td>14-15</td>
<td>14-16</td>
<td>14-16</td>
</tr>
</tbody>
</table>

* *1 *Includes OB&C

As we invest to drive this growth we are committed to the disciplined allocation of capital.

We expect to maintain a disciplined capital frame of $14 to 16 billion per annum through 2025. And we aim to sustain this level through 2030.

- In resilient hydrocarbons we expect to invest $9 to 10 billion per annum between 2023 and 2025. With our plan to invest around $7.5 billion per annum in oil and gas through 2025 unchanged, the range reflects our plans to deepen in bioenergy;

- In convenience and mobility we expect to invest between $2 to 3 billion per annum. This underpins our convenience strategy and our plans to accelerate in EV charging; and

- In Low carbon energy we expect to invest $3 to 5 billion per annum between 2023 and 2025, rising to $4 to 6 billion per annum in the second half of the decade as we build our position in renewables and hydrogen.

We also have a standardised approach to investment allocation balancing: investment economics; volatility and rateability; optionality and integration; strategic alignment; safety and risks; and sustainability.

And we have stringent investment hurdles. These include payback periods of less than 10 years for oil and refining and less than 15 years for gas. And we also have returns expectations for low carbon energy as well as the transition growth engines Bernard mentioned earlier.
Continued strengthening of the balance sheet

This capital frame is also underpinned by a strong balance sheet.

We remain focused on maintaining a strong investment grade credit rating and have made strong progress.

I have already outlined the strong progress we made in reducing net debt by over $8 billion in 2021.

In addition, we remain focused on maintaining an efficient balance sheet. Since the end of 2019 we have:

- repurchased around $15 billion of short-dated bonds and issued over $11 billion of bonds with a duration of 20 years or longer;
- more than doubled the duration of our debt book to over 9 years; and
- increased our exposure to fixed rates at attractive coupons.

Looking ahead, and subject to maintaining an investment grade credit rating in 2022, we plan to allocate 40% of surplus cash flow to further strengthen the balance sheet. And to manage the business with a conservative cash balance point of around $40 per barrel on average through 2025.
Resilient dividend with clear priorities for surplus cash flow

Our financial frame enables us to reward shareholders today through committed distributions.

Subject to the board’s discretion, and at around $60 per barrel, we expect to have capacity for an annual increase in the dividend per ordinary share of around 4% through 2025.

And we remain committed to returning at least 60% of surplus cash flow through share buybacks – guiding to 60% in 2022 – subject to maintaining a strong investment grade credit rating.

On average, at around $60 per barrel, we expect to be able to deliver buybacks of around $4.0 billion per annum through 2025, with upside at higher prices.
Finally, this slide provides a summary of what you can expect from us in 2022 – the continued disciplined execution of our financial frame.

With that, I’ll hand back to Bernard to conclude today’s presentation.
Bernard Looney
Chief executive officer

Thanks Murray
In summary, you have heard a lot today on our strategic progress towards transitioning into an IEC.

And it all comes together in our investor proposition as can be seen on this slide. It is a simple, but we believe compelling, proposition that combines:

- committed distributions - generating competitive cash returns now as we transform
- profitable growth – growing EBIDA per share and growing returns; and
- sustainable value - as we invest with discipline in the five transition growth engines - and lower our emissions.

All in service of delivering long-term shareholder value.

Thank you again for listening this morning – now, it’s over to you. Murray and I will be delighted to take your questions, from the room and online.

May we ask you to keep them to two points at most – and to frame them as
briefly as you can – so that we can get through as many as we can.
Appendix
Guidance

Full year 2022

<table>
<thead>
<tr>
<th>Capital expenditure*</th>
<th>$14-15bn</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD&amp;A</td>
<td>Similar level to 2021</td>
</tr>
<tr>
<td>Divestment and other proceeds</td>
<td>$2-3bn</td>
</tr>
<tr>
<td>Gulf of Mexico oil spill payments</td>
<td>~$1.4bn pre-tax</td>
</tr>
<tr>
<td>OB&amp;C* underlying annual charge</td>
<td>$1.2-1.4bn full year, quarterly charges may vary</td>
</tr>
<tr>
<td>Underlying effective tax rate*(^1)</td>
<td>Expected to be around 35% but is sensitive to the impact that volatility in the current price environment may have on the geographical mix of the group’s profits and losses.</td>
</tr>
<tr>
<td>Reported and underlying upstream production* (ex. Rosneft)</td>
<td>Expect both reported and underlying upstream* production to be broadly flat compared with 2021. Within this, we expect production from oil production &amp; operations to be slightly higher and production from gas &amp; low carbon to be slightly lower. We expect the start-up of Mad Dog Phase 2 in the second half of the year and first gas from the Tangguh expansion project in 2023.</td>
</tr>
</tbody>
</table>

1Q22 vs 4Q21

- Expect first-quarter 2022 reported upstream* production to be lower than fourth-quarter 2021 reflecting base decline and higher maintenance. Within this, we expect production from both oil production & operations and gas & low carbon to be lower.
- Expect product demand to remain impacted by ongoing uncertainty around COVID-19 restrictions and continued additive supply shortages in Castrol. In products we expect energy costs to remain under pressure.
### Reconciling strategic themes and reporting segments

<table>
<thead>
<tr>
<th>Strategic theme</th>
<th>Oil production &amp; operations</th>
<th>Customers &amp; products</th>
<th>Gas &amp; low carbon energy¹</th>
<th>Rosneft</th>
<th>Other businesses &amp; corporate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resilient hydrocarbons</td>
<td>• Oil production</td>
<td>▪ Refining and products</td>
<td>▪ Gas production</td>
<td>• Rosneft</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>▪ Bioenergy</td>
<td>▪ Gas marketing and trading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convenience and mobility</td>
<td>▪ Convenience</td>
<td>▪ Fuels</td>
<td>▪ Renewables</td>
<td></td>
<td>▪ OB&amp;C</td>
</tr>
<tr>
<td></td>
<td>▪ EV charging</td>
<td>▪ Castrol, aviation, B2B/midstream</td>
<td>▪ Hydrogen*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low carbon energy¹</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other businesses &amp; corporate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Denotes growth engine

This is not a exhaustive list of businesses

(1) Includes bp bunge
Gas and low carbon energy

**Production volume**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquids (mbd)</td>
<td>98</td>
<td>109</td>
<td>122</td>
</tr>
<tr>
<td>Natural gas (mmcfd)</td>
<td>4,049</td>
<td>4,520</td>
<td>4,941</td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>796</td>
<td>889</td>
<td>974</td>
</tr>
</tbody>
</table>

**Average realisations***

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquids ($/bbl)</td>
<td>36.51</td>
<td>66.39</td>
<td>71.63</td>
</tr>
<tr>
<td>Natural gas ($/mcf)</td>
<td>3.37</td>
<td>5.26</td>
<td>6.94</td>
</tr>
<tr>
<td>Total hydrocarbons ($/boe)</td>
<td>21.27</td>
<td>34.91</td>
<td>43.68</td>
</tr>
</tbody>
</table>

**Selected financial metrics ($bn)**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjusted EBITDA***</td>
<td>0.9</td>
<td>3.1</td>
<td>3.5</td>
</tr>
<tr>
<td>Capital expenditure*** – gas</td>
<td>0.9</td>
<td>0.7</td>
<td>0.9</td>
</tr>
<tr>
<td>Capital expenditure*** – low carbon</td>
<td>0.5</td>
<td>0.3</td>
<td>0.1</td>
</tr>
</tbody>
</table>

**Operational metrics (GW, bp net)**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed renewables capacity***</td>
<td>1.5</td>
<td>1.7</td>
<td>1.9</td>
</tr>
<tr>
<td>Developed renewables to FID***</td>
<td>3.3</td>
<td>3.6</td>
<td>4.4</td>
</tr>
<tr>
<td>Renewables pipeline***</td>
<td>10.9</td>
<td>23.3</td>
<td>23.1</td>
</tr>
</tbody>
</table>

**Underlying RCPBIT* $bn**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>1Q21</th>
<th>2Q21</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production volume</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquids (mbd)</td>
<td>98</td>
<td>109</td>
<td>122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas (mmcfd)</td>
<td>4,049</td>
<td>4,520</td>
<td>4,941</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>796</td>
<td>889</td>
<td>974</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average realisations***</td>
<td>36.51</td>
<td>66.39</td>
<td>71.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquids ($/bbl)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas ($/mcf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total hydrocarbons ($/boe)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**4Q 2021 vs 3Q 2021**

- Higher realisations*** and increased volumes driven by major project*** ramp-up
- Return to an average contribution from gas marketing and trading

FY & 4Q 2021 financial results & update on strategic progress
Gas and low carbon energy

- Developed and pipeline 0.6GW higher than 3Q21, driven by increase in Lightsource bp developed assets
- 53 projects developed to FID* by Lightsource bp with weighted average expected IRR of 8 – 10%
## Oil production and operations

<table>
<thead>
<tr>
<th></th>
<th>4Q21</th>
<th>3Q21</th>
<th>4Q20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production volume</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquids (mbd)</td>
<td>1,021</td>
<td>975</td>
<td>1,004</td>
</tr>
<tr>
<td>Natural gas (mmcf/d)</td>
<td>1,962</td>
<td>1,961</td>
<td>2,053</td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>1,359</td>
<td>1,313</td>
<td>1,358</td>
</tr>
<tr>
<td><strong>Average realisations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquids ($/bbl)</td>
<td>38.58</td>
<td>65.53</td>
<td>71.07</td>
</tr>
<tr>
<td>Natural gas ($/mcf)</td>
<td>2.38</td>
<td>5.61</td>
<td>9.27</td>
</tr>
<tr>
<td>Total hydrocarbons ($/boe)</td>
<td>33.18</td>
<td>57.72</td>
<td>66.94</td>
</tr>
<tr>
<td><strong>Selected financial metrics</strong> ($bn)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploration write-offs</td>
<td>0.1</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Adjusted EBITDA*</td>
<td>2.5</td>
<td>4.2</td>
<td>5.7</td>
</tr>
<tr>
<td>Capital expenditure*</td>
<td>1.1</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td><strong>Combined upstream</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil and gas production¹ (mboed)</td>
<td>2,155</td>
<td>2,202</td>
<td>2,332</td>
</tr>
<tr>
<td>bp average realisation* ($/boe)</td>
<td>28.48</td>
<td>47.57</td>
<td>56.46</td>
</tr>
<tr>
<td>Unit production costs*¹² ($/boe)</td>
<td>6.39</td>
<td>6.96</td>
<td>6.82</td>
</tr>
<tr>
<td>bp-operated plant reliability*¹² (%)</td>
<td>94.0</td>
<td>94.3</td>
<td>94.0</td>
</tr>
</tbody>
</table>

### Underlying RCPBIT* $bn

- **4Q 2021 vs 3Q 2021**
  - Higher liquids and gas realisations* including the benefit of very strong NBP prices
  - Higher volumes

---

(1) Excluding Rosneft  
(2) On a year-to-date basis
Customers and products

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Customers – convenience &amp; mobility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers – convenience &amp; mobility adjusted EBITDA*</td>
<td>1.0</td>
<td>1.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Castrol* adjusted EBITDA*</td>
<td>0.3</td>
<td>0.3</td>
<td>0.2</td>
</tr>
<tr>
<td>Capital expenditure*</td>
<td>0.4</td>
<td>0.3</td>
<td>0.7</td>
</tr>
<tr>
<td>bp retail sites* – total(^{2})</td>
<td>20,300</td>
<td>20,350</td>
<td>20,500</td>
</tr>
<tr>
<td>bp retail sites in growth markets* (^{2})</td>
<td>2,700</td>
<td>2,650</td>
<td>2,700</td>
</tr>
<tr>
<td>Strategic convenience sites* (^{2})</td>
<td>1,900</td>
<td>2,050</td>
<td>2,150</td>
</tr>
<tr>
<td>Marketing sales of refined products (mb/d)(^{3})</td>
<td>2,683</td>
<td>2,993</td>
<td>2,978</td>
</tr>
</tbody>
</table>

**Products – refining & trading**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjusted EBITDA*</td>
<td>(0.2)</td>
<td>0.8</td>
<td>0.4</td>
</tr>
<tr>
<td>Capital expenditure*</td>
<td>0.4</td>
<td>0.3</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Refining environment**

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMM* ($/bbl)</td>
<td>5.9</td>
<td>15.2</td>
<td>15.1</td>
</tr>
<tr>
<td>Refining throughput (mmbd)</td>
<td>1,628</td>
<td>1,622</td>
<td>1,644</td>
</tr>
<tr>
<td>Refining availability* (%)</td>
<td>96.1</td>
<td>95.6</td>
<td>95.4</td>
</tr>
</tbody>
</table>

(1) Castrol is included in customers – convenience & mobility
(2) Reported to the nearest 50
(3) Comparative information for 2020 has been restated for the changes to net presentation of revenues and purchases relating to physically settled derivative contracts effective 1 January 2021. For more information see SEA - note 1 basis of preparation - voluntary change in accounting policy

Underlying RCPBIT* $bn

Customers

- Resilient retail and convenience performance despite seasonality and COVID-19 impacts
- Castrol performance benefitted from higher volumes which was more than offset by high base oil prices and continuing additive shortages
- Increased digital and wage expenditure

Products

- In refining, higher commercial optimisation offset by increased energy costs
- Significantly lower contribution from oil trading

4Q 2021 vs 3Q 2021

- Customers
- Products
- Petrochemicals
- Total
## Rosneft

### bp share of underlying net income* $bn

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquids (mbd)</td>
<td>0.3</td>
<td>0.4</td>
<td>0.7</td>
</tr>
<tr>
<td>Natural gas (mmcfd)</td>
<td>0.7</td>
<td>0.9</td>
<td>0.7</td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>0.7</td>
<td>0.9</td>
<td>0.7</td>
</tr>
</tbody>
</table>

### bp share of Rosneft dividend* $bn

<table>
<thead>
<tr>
<th></th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquids (mbd)</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>Natural gas (mmcfd)</td>
<td>0.9</td>
<td>0.9</td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>0.7</td>
<td>0.7</td>
</tr>
</tbody>
</table>

### bp share of production volume

<table>
<thead>
<tr>
<th></th>
<th>4Q20</th>
<th>3Q21</th>
<th>4Q21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquids (mbd)</td>
<td>876</td>
<td>876</td>
<td>879</td>
</tr>
<tr>
<td>Natural gas (mmcfd)</td>
<td>1,360</td>
<td>1,418</td>
<td>1,432</td>
</tr>
<tr>
<td>Total hydrocarbons (mboed)</td>
<td>1,111</td>
<td>1,120</td>
<td>1,126</td>
</tr>
</tbody>
</table>
Oil investment options

- Existing hub
- New hub

**US Gulf of Mexico**

- **Atlantis**
  - Major facility expansion
  - Drill center 1, 2 and 3 expansions

- **Mad Dog**
  - North West water injection
  - South West expansion

- **North Graben**
  - Na Kika
    - Herschel expansion

- **Thunder Horse**
  - Shallow development

- **Infill and Exploration Drilling**
  - Operated hubs
  - Non-operated hubs

**Exploration drilling**

**bpx energy**

- **Permian stacked horizons**
  - Austin chalk

- **Eagle Ford infill and expansion drilling**

**Canada**

- Exploration drilling

**Brazil**

- Exploration drilling

**UK and Norway**

- **Johan Sverdrup**
  - Phase 2

- **Alligin Phase 2**
  - NOAKA

- **Clair Phase 3 and follow-on**
  - NCP

- **UK infill drilling**
  - Norway infill drilling

**Exploration drilling**

**Azerbaijan**

- Infill drilling

- Exploration drilling

**Russia**

- Infill drilling

- Exploration drilling

**Middle East**

- Iraq infill drilling/waterflood
  - UAE infill drilling/EOR

**Angola**

- B18 infill drilling
  - B15/17 infill drilling

- B31 PAJ
  - Exploration drilling

**Asia Pacific**

- Exploration drilling

---

Note: Summarised selection of opportunities. Excludes major projects under development or online.
Gas investment options

<table>
<thead>
<tr>
<th>UK and Norway</th>
<th>Exploration drilling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infill drilling</td>
<td>Exploration drilling</td>
</tr>
<tr>
<td>Haynesville infill drilling</td>
<td>Eagle Ford infill and expansion drilling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trinidad &amp; Tobago</th>
<th>Cassia TP61</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cypre</td>
<td>Mento</td>
</tr>
<tr>
<td>Coconut</td>
<td>Deepwater</td>
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<tr>
<td>Ginger</td>
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<table>
<thead>
<tr>
<th>Mauritania and Senegal</th>
<th>Southern Mauritania Gas Hub</th>
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<tbody>
<tr>
<td>GTA Phases 2 and 3</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Angola</th>
<th>New Gas Consortium</th>
</tr>
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<tbody>
<tr>
<td>Infill drilling</td>
<td>Exploration drilling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Azerbaijan</th>
<th>Shah Deniz compression</th>
</tr>
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<tbody>
<tr>
<td>Infill drilling</td>
<td>Exploration drilling</td>
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<table>
<thead>
<tr>
<th>Russia</th>
<th>Kharampur Turonian</th>
<th>Zinichev</th>
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<tbody>
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<td>Exploration drilling</td>
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<table>
<thead>
<tr>
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<tr>
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<table>
<thead>
<tr>
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<th>R-series Phase 2</th>
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<tbody>
<tr>
<td>Exploration drilling</td>
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</table>

<table>
<thead>
<tr>
<th>Asia Pacific</th>
<th>Tangguh Expansion Phase 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration drilling</td>
<td></td>
</tr>
</tbody>
</table>

Note: Summarised selection of opportunities. Excludes major projects’ under development or online.
Glossary

**Adjusting items**
Include gains and losses on the sale of businesses and fixed assets, impairments, environmental and other provisions, restructuring, integration and rationalisation costs, fair value accounting effects, costs relating to the Gulf of Mexico oil spill and other items. Adjusting items within equity-accounted earnings are reported net of incremental income tax reported by the equity-accounted entity. Adjusting items are used as a reconciling adjustment to derive underlying RC profit or loss and related underlying measures which are non-GAAP measures.

**Bio-refineries**
A facility that is dedicated to processing biological materials (including waste oil and crop waste) to produce biofuels such as bio-diesel and sustainable aviation fuel, which may be blended to customer specifications with other components such as hydrocarbons at co-located or adjacent terminals and tanks.

**bp-operated plant reliability**
Calculated taking 100% less the ratio of total unplanned plant deferrals divided by installed production capacity. Unplanned plant deferrals are associated with the topside plant and where applicable the subsea equipment (excluding wells and reservoir). Unplanned plant deferrals include breakdowns, which does not include Gulf of Mexico weather related downtime.

**bp share of Rosneft dividend**
From 2018, represents bp’s share of 50% of Rosneft’s IFRS net profit.

**bp share of underlying net income**
On a replacement cost basis and adjusted for adjusting items*; 4Q21 represents bp estimate.

**Capital expenditure**
Total cash capital expenditure as stated in the condensed group cash flow statement. Capital expenditure for the operating segments and customers & products businesses is presented on the same basis.

**Cash balance point**
Implied Brent oil price for the quarter that would cause the sum of operating cash flow excluding Gulf of Mexico oil spill payments (assuming actual refining marker margins and Henry Hub gas prices for the quarter) and proceeds from loan repayments to equate to the sum of total cash capital expenditure, lease liability payments, dividend paid, and payments on perpetual hybrid bonds.

**Consolidation adjustment – UPII**
Unrealised profit in inventory arising on inter-segment transactions.

**Convenience gross margin**
Calculated as RC profit before interest and tax for the customers & products segment, excluding RC profit before interest and tax for the refining & trading and petrochemicals businesses, and adjusting items* (as defined above) for the convenience & mobility business to derive underlying RC profit before interest and tax for the convenience & mobility business; subtracting underlying RC profit before interest and tax for the Castrol business; adding back depreciation, depletion and amortisation, production and manufacturing, distribution and administration expenses for convenience & mobility (excluding Castrol); subtracting earnings from equity-accounted entities in the convenience & mobility business (excluding Castrol) and gross margin for the retail fuels, next-gen, aviation, B2B and midstream businesses.

**Developed renewables to FID**
Total generating capacity for assets developed to FID by all entities where bp has an equity share (proportionate to equity share). If asset is subsequently sold bp will continue to record capacity as developed to FID. If bp equity share increases developed capacity to FID will increase proportionately to share increase for any assets where bp held equity at the point of FID.

**Disposal proceeds**
Divestments and other proceeds.
Glossary

EBIDA / adjusted EBIDA
Underlying replacement cost profit before interest and tax*, add back depreciation, depletion and amortisation and exploration expenditure written-off (net of adjusting items*), less taxation on an underlying RC basis.

EBITDA / adjusted EBITDA
Replacement cost (RC) profit before interest and tax, excluding net adjusting items*, adding back depreciation, depletion and amortisation and exploration write offs (net of adjusting items).

Electric vehicle charge points / EV charge points
Defined as charge points operated by either bp or a bp joint venture.

Energy product
An energy product is a product that is used by an ultimate end-user to satisfy an energy demand. In the case of fuels, to burn them to release their calorific content, and in the case of electricity to provide work or heat. A refined product such as a lubricant base stock does not count as an energy product as it is not used to provide energy in its use phase.

Hopper
Renewables hopper comprises of project opportunities from the point of initial evaluation until they are either stopped or become part of the renewable pipeline.

Hydrogen / low carbon hydrogen
Hydrogen fuel with reduced carbon attributes, including renewable (green) hydrogen made from solar, wind and hydro-electricity, and (blue) made from natural gas in combination with carbon capture and storage.

Installed renewables capacity
bp’s share of capacity for operating assets owned by entities where bp has an equity share.

Lease payments
Lease liability payments.

Major projects
Have a bp net investment of at least $250 million, or are considered to be of strategic importance to bp or of a high degree of complexity.

Net debt
Calculated as finance debt, as shown in the balance sheet, plus the fair value of associated derivative financial instruments that are used to hedge foreign currency exchange and interest rate risks relating to finance debt, for which hedge accounting is applied, less cash and cash equivalents. Net debt does not include accrued interest, which is reported within other receivables and other payables on the balance sheet and for which the associated cash flows are presented as operating cash flows in the group cash flow statement.

Net zero
References to net zero for bp in the context of our ambition and Aims 1, 2 and 3 mean achieving a balance between (a) the relevant Scope 1 and 2 emissions (for Aim 1), Scope 3 emissions (for Aim 2) or product lifecycle emissions (for Aim 3), and (b) the aggregate of applicable deductions from qualifying activities such as sinks under our methodology at the applicable time.

Net zero operations
bp’s aim to reach net zero* operational greenhouse gas (CO₂ and methane) emissions by 2050 or sooner, on a gross operational control basis, in accordance with bp’s Aim 1, which relates to our reported Scope 1 and 2 emissions. Any interim target or aim in respect of bp’s Aim 1 is defined in terms of absolute reductions relative to the baseline year of 2019.

Net zero production
bp’s aim to reach net zero* CO₂ emissions, in accordance with bp’s Aim 2, from the carbon in our upstream oil and gas production, in respect of the estimated CO₂ emissions from the combustion of upstream production of crude oil, natural gas and natural gas liquids (NGLs) on a bp equity share basis based on bp’s net share of production, excluding bp’s share of Rosneft production and assuming that all produced volumes undergo full stoichiometric combustion to CO₂. Aim 2 is bp’s Scope 3 aim and relates to Scope 3, category 11 emissions. Any interim target or aim in respect of bp’s Aim 2 is defined in terms of absolute reductions relative to the baseline year of 2019.

Glossary
### Net zero sales
bp’s aim to reach net zero* for the greenhouse gas emissions associated with the lifecycle (including end use) of its marketed and physically traded* energy products, in accordance with bp’s Aim 3. Any interim target or aim in respect of bp’s Aim 3 is defined in terms of reductions in the weighted average greenhouse gas emissions per unit of energy delivered (in grams CO₂e/MJ) relative to the baseline year of 2019. (Work is ongoing to confirm an assured baseline for this Aim to incorporate the inclusion of physically traded sales.) Greenhouse gas emissions (CO₂, methane, N₂O) are estimated on a lifecycle basis covering production / extraction, transportation, processing, distribution and use of the relevant products (assuming full stoichiometric combustion of the product to CO₂).

### Operating cash flow
Net cash provided by (used in) operating activities as stated in the condensed group cash flow statement.

### Physically traded energy product
For the purposes of Aim 3, this includes trades in energy products which are physically settled in circumstances where bp considers their inclusion to be consistent with the intent of the Aim. It therefore excludes, for example, financial trades, and physical trades where the purpose or effect is that the volumes traded net off against each other.

### Realisations
Result of dividing revenue generated from hydrocarbon sales, excluding revenue generated from purchases made for resale and royalty volumes, by revenue generating hydrocarbon production volumes. Revenue generating hydrocarbon production reflects the bp share of production as adjusted for any production which does not generate revenue. Adjustments may include losses due to shrinkage, amounts consumed during processing, and contractual or regulatory host committed volumes such as royalties.

### Refining availability
Represents Solomon Associates’ operational availability for bp-operated refineries, which is defined as the percentage of the year that a unit is available for processing after subtracting the annualised time lost due to turnaround activity and all planned mechanical, process and regulatory downtime.

### Refining marker margin (RMM)
Average of regional indicator margins weighted for bp’s crude refining capacity in each region. Each regional marker margin is based on product yields and a marker crude oil deemed appropriate for the region. The regional indicator margins may not be representative of the margins achieved by bp in any period because of bp’s particular refinery configurations and crude and product slate.

### Renewables pipeline
Renewable projects satisfying the following criteria until the point they can be considered developed to final investment decision (FID): Site based projects have obtained land exclusivity rights, or for PPA based projects an offer has been made to the counterparty, or for auction projects pre-qualification criteria has been met, or for acquisition projects post a binding offer being accepted.

### Retail sites
Include sites operated by dealers, jobbers, franchisees or brand licensees or joint venture (JV) partners, under the bp brand. These may move to and from the bp brand as their fuel supply agreement or brand licence agreement expires and are renegotiated in the normal course of business. Retail sites are primarily branded bp, ARCO, Amoco, Aral and Thorntons, and also includes sites in India through our Jio-bp JV.

### Retail sites in growth markets
Retail sites that are either bp branded or co-branded with our partners in China, Mexico and Indonesia and also include sites in India through our Jio-bp JV.
## Glossary

### ROACE
Defined as underlying replacement cost profit, which is defined as profit or loss attributable to bp shareholders adjusted for inventory holding gains and losses, adjusting items and related taxation on inventory holding gains and losses and total taxation on adjusting items, after adding back non-controlling interest and interest expense net of tax, divided by the average of the beginning and ending balances of total equity plus finance debt, excluding cash and cash equivalents and goodwill as presented on the group balance sheet over the periods presented. Interest expense is finance costs as presented on the group income statement, excluding lease interest and the unwinding of the discount on provisions and other payables before tax.

### Rosneft underlying RCPBIT
bp’s adjusted share of Rosneft’s earnings after Rosneft’s own finance costs, taxation and non-controlling interests is included in the bp group income statement within profit before interest and taxation. For each year-to-date period it is calculated by translating the amounts reported in Russian roubles into US dollars using the average exchange rate for the year to date.

### Solomon availability
See Refining availability definition

### Solomon net cash margin
Net cash margin is defined by Solomon Associates as the net margin achieved after subtracting cash operating expenses and adding any refinery revenue from other sources. Net cash margin is expressed in US dollars per barrel of net refinery input.

### Strategic convenience sites
Retail sites, within the bp portfolio, which both sell bp branded fuel and carry one of the strategic convenience brands (e.g. M&S, Rewe to Go). To be considered a strategic convenience brand the convenience offer should be a strategic differentiator in the market in which it operates. Strategic convenience site count includes sites under a pilot phase.

### Surplus cash flow
Refers to the net surplus of sources of cash over uses of cash, after reaching the $35 billion net debt target. Sources of cash include net cash provided by operating activities, cash provided from investing activities and cash receipts relating to transactions involving non-controlling interests. Uses of cash include lease liability payments, payments on perpetual hybrid bond, dividends paid, cash capital expenditure, the cash cost of share buybacks to offset the dilution from vesting of awards under employee share schemes, cash payments relating to transactions involving non-controlling interests and currency translation differences relating to cash and cash equivalents as presented on the condensed group cash flow statement.

### Underlying effective tax rate (ETR)
Calculated by dividing taxation on an underlying replacement cost (RC) basis by underlying RC profit or loss before tax. Taxation on an underlying RC basis for the group is calculated as taxation as stated on the group income statement adjusted for taxation on inventory holding gains and losses and total taxation on adjusting items*.

### Underlying production
2021 underlying production, when compared with 2020, is production after adjusting for acquisitions and divestments, curtailments, and entitlement impacts in our production-sharing agreements/contracts and technical service contract.

### Underlying replacement cost profit
Replacement cost profit or loss* after excluding net adjusting items* and related taxation.

### Underlying replacement cost profit or loss before interest and tax (RCPBIT)
Underlying RC profit or loss before interest and tax for the operating segments or customers & products businesses is calculated as RC profit or loss including profit or loss attributable to non-controlling interests before interest and tax for the operating segments and excluding net adjusting items* for the respective operating segment or business.
**Glossary**

| **Unit production costs** | Calculated as production cost divided by units of production. Production cost does not include ad valorem and severance taxes. Units of production are barrels for liquids and thousands of cubic feet for gas. Amounts disclosed are for bp subsidiaries only and do not include bp’s share of equity-accounted entities. |
| **Underlying replacement cost profit or loss before interest and tax (RCPBIT)** | Underlying RC profit or loss before interest and tax for the operating segments or customers & products businesses is calculated as RC profit or loss including profit or loss attributable to non-controlling interests before interest and tax for the operating segments and excluding net adjusting items* for the respective operating segment or business. |
| **Unit production costs** | Calculated as production cost divided by units of production. Production cost does not include ad valorem and severance taxes. Units of production are barrels for liquids and thousands of cubic feet for gas. Amounts disclosed are for bp subsidiaries only and do not include bp’s share of equity-accounted entities. |

| **Working capital** | Movements in inventories and other current and non-current assets and liabilities as reported in the condensed group cash flow statement. |

Change in working capital adjusted for inventory holding gains/losses and fair value accounting effects is a non-GAAP measure. It is calculated by adjusting for inventory holding gains/losses reported in the period and from the second quarter onwards, it is also adjusted for fair value accounting effects reported within adjusting items* for the period. This represents what would have been reported as movements in inventories and other current and non-current assets and liabilities, if the starting point in determining net cash provided by operating activities had been underlying replacement cost profit rather than profit for the period. The nearest equivalent measure on an IFRS basis for this is movements in inventories and other current and non-current assets and liabilities.

bp utilises various arrangements in order to manage its working capital including discounting of receivables and, in the supply and trading business, the active management of supplier payment terms, inventory and collateral.